2017-2018 Undergraduate Catalog



University of Houston Z Clear Lake

Courses, Degree Requirements, Faculty and General Information

www.uhcl.edu/catalog

General Information

General information contains an overview of University of Houston-Clear Lake, and its services and policies that pertain to both undergraduate and graduate students. This information was published in August 2017, and becomes effective with the beginning of the fall 2017 semester.

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University Overview

University of Houston-Clear Lake is a student-centered, community-minded, partnership-oriented university that offers bachelor's, master's and select doctoral degree programs to enhance the educational, economic and cultural environment of the region. The university serves a diverse student population from the state, the nation and abroad, particularly from the Houston-Galveston metropolitan area, by offering programs on and off campus.

UHCL offers a variety of programs in business, education, human sciences and humanities, and science and computer engineering. Academic programs are designed to develop the critical thinking, creative, quantitative, leadership and communication skills of students.

The university is committed to community engagement through partnerships with educational institutions, businesses, government agencies and nonprofit organizations.

A Metropolitan University

Located adjacent to NASA's Johnson Space Center, UHCL is situated in the heart of Clear Lake's high-technology community. The campus is located between downtown Houston and Galveston Island. Its neighbors to the east are Armand Bayou Nature Center and Bayport Industrial Complex. As one of the leading higher education institutions serving the Texas upper Gulf Coast, UHCL is a vital component of the surrounding region. The university conducts applied and basic research and engages in community and professional services that support both the economic development and the quality of life of the area. Because a strong university is essential to the success of the area's industries, UHCL is dedicated to developing and strengthening programs that support the region's various commercial, engineering, human services and trade sectors, especially in the computing, medical, petrochemical and space industries.

Students and faculty apply academic theories and conduct research through UHCL's centers, institutes, clinics and laboratories. These entities include:

- · Art School for Children and Young Adults
- · Center for Executive Education
- · Center for Autism and Developmental Disabilities
- Center for Educational Programs
- · Center for Professional Development of Teachers
- · Center for Robotics Software
- · Counseling Clinic
- Cyber Security Institute

- · Diagnostic Reading Clinic
- · Environmental Institute of Houston
- · Learning Resources Review Center
- · Mathematics Center
- · Psychological Services Clinic
- · Research Center for Language and Culture

Establishment of UHCL

The establishment of UHCL was authorized by the 62nd Texas Legislature in 1971. The measure was the result of a 1968 report by the Coordinating Board, Texas College and University System (now the Texas Higher Education Coordinating Board), which called for a second University of Houston campus to provide upper-level and graduate programs. In 1973, the Texas Senate authorized construction of a permanent campus at Clear Lake.

Construction began early in 1974 with the first phase of the Bayou Building, the largest of the university's five principal buildings. September 1974 marked the beginning of regularly scheduled classes on the UHCL campus under the leadership of founding chancellor, Alfred R. Neumann. Opening-day enrollment totaled 1,069 students. Charter faculty included 60 professors. Today, the university has approximately 8,900 students, and more than 600 full-time and adjunct faculty.

In fall 2014, UHCL welcomed its first-ever freshman class. The university received approval from the state in 2011 for downward expansion, which allowed the university to add freshman- and sophomore-level courses to its roster.

Creation of UHCL Pearland Campus

In 2007, the Texas Higher Education Coordinating Board approved creation of UHCL Pearland Campus. The new campus was developed as a partnership between UHCL and the City of Pearland to improve access to higher education for Pearland-area residents. During spring 2009, construction began on a 30,659-square-foot building, with 22,616 square feet to house the university and the remaining 8,043 square feet for the Pearland Economic Development Corporation. UHCL Pearland Campus, located at 1200 Pearland Parkway, Pearland, Texas, 77581, features eight media-equipped classrooms, two teaching labs, a computer lab, a library and a variety of student resources. Classes at the satellite campus began fall 2010, with more than 600 students enrolling in degree programs such as accounting, business, criminology, education, nursing and psychology.

In fall 2014, UHCL Pearland Campus began offering courses toward a Bachelor of Science in Nursing degree for registered nurses with associate degrees. The RN to BSN program is customized for students who wish to improve managerial skills and advance as nurse managers, educators or administrators. For

more information about degree programs offered at UHCL Pearland Campus, call the Office of Enrollment Services at 281-212-1690.

Accreditations

University of Houston-Clear Lake is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award baccalaureate, master's and doctorate degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of the University of Houston-Clear Lake.

The College of Business maintains accreditation on its graduate and undergraduate business and accounting programs by the Association to Advance Collegiate Schools of Business (AACSB International).

The College of Education is accredited by the Council for the Accreditation of Educator Preparation (CAEP), 1140 19th Street, N.W. Suite 400, Washington, D.C. 20036, phone 202–223–0077. This accreditation covers all of the institution's initial teacher preparation and advanced educator preparation programs. In addition, the educational management with principal certification program is accredited by the Educational Leadership Constituent Council (ELCC). The EC-6 English as a second language certification program is accredited by Teachers of English to Speakers of Other Languages (TESOL). The early childhood education advanced program is accredited by the National Association for the Education of Young Children (NAEYC). The 4–8 generalist program is accredited by the Association for Middle Level Education (AMLE). The special education program is accredited by the Council for Exceptional Children (CEC). The reading specialist program is accredited by the International Reading Association (IRA). The 4–8 mathematics and the 8–12 mathematics certification programs are accredited by the National Council of Teachers of Mathematics (NCTM). The EC-6 generalist program is accredited by the Association for Childhood Education International (ACEI). The College of Education is also accredited by the Texas State Board for Educator Certification (SBEC).

The College of Human Sciences and Humanities' family therapy program is accredited by the Commission on Accreditation for Marriage and Family Therapy Education (COAMFTE). The college psychology program is accredited by the National Association of School Psychologists (NASP). The Bachelor of Social Work is accredited by the Council on Social Work Education (CSWE). The Behavior Analysis program is accredited by the Association for Behavior Analysis International. The Applied Cognitive Psychology concentration and the Human Factors Certificate program are accredited by the Human Factors and Ergonomics Society. University of Houston–Clear Lake is one of only two Texas universities to earn this distinction. University of Houston–Clear Lake Registered Nurse to Bachelor of Science in Nursing (RN–BSN) degree program is fully accredited by the Accreditation Commission for Education in Nursing (ACEN).

The College of Science and Engineering's undergraduate degree plan in computer engineering is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET) Inc. The undergraduate degree plans in computer science and computer information systems are accredited by the Computing Accreditation Commission of ABET. The program in chemistry is accredited by the American Chemical Society (ACS). The undergraduate Environmental Science—Industrial Hygiene and Safety plans are accredited by the Applied Science Commission of ABET.

The Office of Counseling Services is accredited by the International Association of Counseling Services (IACS). The Doctoral Internship Program in the Office of Counseling Services is additionally accredited by the American Psychological Association (APA).

Governance

UHCL is one of four institutions with distinct identities and missions that make up the University of Houston System. The universities are governed by the UH System Board of Regents and Chancellor Renu Khator. Administrative responsibility for UHCL is vested in its president. UHCL's shared governance process includes the Faculty Senate, University Staff Association and Student Government Association, working with the university's administration through various committees and councils including University Council, which is chaired by the university's president. Other councils/committees include Academic Council, University Life Committee, Planning and Budgeting Committee, and Facilities and Support Services Committee.

The Campus

UHCL's buildings, which comprise more than 800,000 square feet of space, are surrounded by a 524-acre natural environment. The campus features picturesque, park-like settings with Horsepen Bayou winding through heavily wooded areas abundant with wildlife.

The Arbor Building houses painting, ceramics, weaving and photography studios, as well as educational centers, teaching methods labs and psychology facilities.

The Bayou Building houses the majority of classrooms, administrative and faculty offices, the library, alumni relations, bookstore, cafeteria, computing services and laboratories, copy services, mail room, university police and the theater.

The Central Services Building is headquarters for building maintenance, grounds and custodial services, scheduling and space planning, and vehicle maintenance.

The Delta Building houses student computer laboratories and computing faculty offices.

The Student Services and Classroom Building accommodates five categories of functions including academic; enrollment; health, wellness and academic support; programming; and general space. The one-stop Student Assistance Center provides enrollment, registration, fee payment, financial aid and scholarship services.

University Forest Apartments is a privately owned and managed apartment complex built in 1995 on the campus of the university. This 136-unit student housing facility is a two-story complex that includes a central courtyard with clubhouse, laundry facility, swimming pool, jacuzzi, sand volleyball court, barbecue grills, and picnic and lounge areas.

University Services

Alfred R. Neumann Library

UHCL's Alfred R. Neumann Library (www.uhcl.edu/library), named after the university's founding chancellor, provides students with online access to thousands of books, journals, and scholarly resources. UHCL librarians offer personal research assistance to students and instruction on navigating search interfaces, retrieving information and evaluating information for use in scholarly research. Visit with librarians in person, or contact them by phone at 281–283–3910, by text at 281–816–4341, or by email at library@uhcl.edu.

Visitors can receive help formulating effective search queries and identifying the best online resources from a collection of more than 239 subscription-only databases, most with full-text articles. Classes are available in research procedures tailored to particular courses. The library classroom is equipped with laptops so that students may participate in a hands-on-learning environment. Students may also make appointments with librarians to explore more in-depth instruction on library research strategies in a comfortable one-on-one environment.

UHCL students, faculty and staff may also borrow books from UH and UH-Downtown quickly and easily through the shared catalog. The TexShare card, available upon request in Neumann Library, allows a UHCL student to borrow books from most academic or public libraries in Texas. The library's interlibrary loan service will borrow requested materials from any library in the country through a national interlibrary loan network. Neumann Library offers 42 fixed computer workstations for student use.

The library occupies approximately 80,000 square feet in the Bayou Building and contains collaborative study areas, laptop-friendly study space, group and individual study rooms, and a presentation-practice room. The library contains more than 510,000 volumes and 457,000 ebooks and provides access to 84,700 ejournals. The library has a collection of international films on DVD and subscribes to several educational video databases, which offer up to 43,700 streaming videos. A curriculum library for education students contains K-12 textbooks and classic and contemporary children's literature in print and audio. Neumann Library also includes University Archives, which houses the NASA Johnson Space Center History Collection in addition to the university collections.

Computing and Telecommunications

The UCT Support Center serves as the first point of contact for all computing and telecommunications needs. Individuals may drop in at the center Monday through Thursday, 8 a.m. – 10:30 p.m., Friday and Saturday, 8 a.m. – 5 p.m. in the Bayou Building, Suite B2300, or contact the center by phone at

281–283–2828 or email at supportcenter@uhcl.edu. Visit www.uhcl.edu/uct for details on available services, including documentation, self-help guides and policies.

Computing and telecommunications resources available to students, faculty and staff include:

- · Email accounts.
- Various technology orientations and training programs including online software training, student lab orientation, new student, faculty and staff orientations, computer use training, faculty orientation for classroom technology and Blackboard training for faculty.
- Wireless–equipped laptops may be checked out for free from several convenient locations on campus.
- Academic computing labs for students, in multiple locations, open daily including weekends.

 Printers and photo/document scanners available in all labs. Lab hours and locations can be found at www.uhcl.edu/uct.
- Specialized teaching labs including PC labs for students to work in teams, a high-performance PC lab for special graphic application usage, and a Mac lab equipped with 24-inch iMacs for video editing/creating, digital graphics and photography classes.
- University classrooms equipped with integrated video and audio technology.
- · Support for online students using the Blackboard Course Management System.
- Support for faculty in instructional design of online courses as well as for web-enhanced instruction.
- Server support for university website (www.uhcl.edu).
- · Wireless access in all campus classroom buildings.
- High-speed network for data, video and Internet access.
- Industry–recognized applications to block spam and intercept virus attacks on all university–owned computers.
- Secure remote access to campus resources via Virtual Private Network or VPN.
- Software purchase program for current faculty, staff and students that includes Microsoft and Adobe products.
- Access to Qualtrics and Gartner.
- Cisco VoIP telecommunications system for voice communications, including voicemail and fax service for faculty and staff.

UHCL Alumni Association

UHCL is committed to its alumni. The Office of University Advancement focuses on enhancing the pride, loyalty and engagement of alumni by connecting them to fellow UHCL alumni, parents, students, faculty and friends of the university through support services, activities and events.

All UHCL graduates and recipients of teacher's certificates are automatically members of the UHCL Alumni Association. Alumni are encouraged to share UHCL pride with family, friends, co-workers and community members by reconnecting and getting involved with UHCL. To learn more about the UHCL Alumni Association or to get involved, visit www.uhcl.edu/alumni or contact the Office of Development and Alumni Relations at 281–283–2021 or alumni@uhcl.edu.

University Police

The University Police Department is responsible for law enforcement, security and emergency response at UHCL, UHCL Pearland, and UHCL Texas Medical Center. The UHCL police serve the university community and visitors alike through law enforcement, crime prevention, traffic control and public assistance programs. The department enforces all university regulations as well as local and state laws.

The department is located in the Bayou Building, Suite B1636. Police and security services are available 24 hours a day, seven days a week by calling 281–283–2222. Trained, professional police and communications officers staff the department. The university police provide the following services: lockshop services including card access and keys, vehicle unlocks, vehicle jump-starts, airing deflated tires and safety escorts to your vehicle.

To report an on-campus crime or any emergency, call the University Police Department at 281–283–2222 from off-campus telephones or 2222 from on-campus telephones. For special announcements, emergency closings and other information, call the UHCL Hotline at 281–283–2221 or visit www.uhcl.edu/emergency. For a complete overview of the University Police Department and its services, visit www.uhcl.edu/police.

Parking

Parking is handled by the UHCL Parking Department. To purchase a student, faculty or staff permit, visit http://uhclparking.t2hosted.com. Guest passes may be purchased at kiosks located throughout campus. For more information, contact the Parking Department at 281–283–2277, email parking@uhcl.edu or visit www.uhcl.edu/parking.

Student Services

Office of the Associate Vice President for Student Services

The Office of the Associate Vice President for Student Services provides support and leadership for the offices of Career and Counseling Services, Dean of Students, Disability Services, Health Services, Student Diversity Equity and Inclusion, Math Center, Orientation and New Student Programs, Student Conference for Research and Creative Arts, Student Housing, Student Life, Student Publications, Student Services at Pearland, Student Success Center and the Writing Center.

This office also provides students with advocacy, information and assistance in all phases of campus life. The Associate Vice President is responsible for interpreting and implementing student life policies, resolving disputes and disciplinary problems and handling student complaints. The rights and responsibilities of students are published in the Student Life Policies handbook. Standards of student conduct are enforced to ensure the safety of individuals, protection of property and the continuity of the educational process. Copies of the Student Life Policies handbooks are available from the offices of the Associate Vice President, Student Life and Dean of Students, as well as online at www.uhcl.edu.

Office	Location	Phone
Associate Vice President	Bayou 2523	281-283-3025
Career Services	SSCB 3109	281-283-2590
Couseling Services	SSCB 3103	281-283-2580
Dean of Students	SSCB 1201	281-283-2567
Disability Services	SSCB 1302	281-283-2648
Health Services	SSCB 1301	281-283-2626
Math Center	Bayou 2127	281-283-3883
Orientation & New Student Programs	SSCB 1204	281-283-2660
Student Conference for Research & Creative Arts	Bayou 2608	281-283-3375
Student Diversity, Equity and Inclusion	SSCB 1203	281-283-2575
Student Housing		281-286-5959
Student Life	SSCB 1204	281-283-2560
Student Publication	Bayou 1239	281-283-2570
Student Success Center	SSCB 3102	281-283-2643
Writing Center	SSCB 2105	281-283-2910

Career Services

Career Services assists students in establishing and/or advancing careers in their degree fields and in finding jobs, while they are enrolled in school. Some services are available to alumni for a fee. Information on Alumni Career Services is available in SSCB 3109 or at 281-283-2590. Career Services offers:

- · Vocational testing and assessment
- · Job search assistance
- · Mock interviews and résumé critiques
- Resume referrals with career services registration
- On-line job listings
- · On campus interviewing
- Multiple job fairs and networking events

Cooperative Education (Co-op) is a planned learning experience designed to prepare students for careers by integrating work experience with academic study. This program offers:Enriched student learning through experience gained from performing actual work assignments and developing professional skills in a work setting.

Two work plans. The alternating plan allows students to alternate semesters of full-time classes with cooperative education work experiences. The parallel plan allows students to work part-time while attending classes.

Students must be degree seeking and meet academic eligibility requirements as defined by individual colleges. When enrolled in a cooperative education course, students will be considered full-time for purposes of enrollment verification, but not for purposes of determining eligibility for veterans' benefits or financial aid.

Before participating in on-campus job interviewing, students are required to complete a Career Services or Co-op registration. Individual assistance is available by appointment and during drop-in hours. All other services are available during office hours from 8:30 a.m. to 7:00 p.m. on Monday through Thursday and 8:30 a.m. to 12:00 p.m. on Friday.

Counseling Services

The mission of UHCL Counseling Services is to help students fulfill their goals by fostering connections with and among members of the university community, facilitating the discovery and realization of power in their strengths and developing the ability to address emotional and psychological challenges. The licensed professionals in Counseling Services provide a variety of free and confidential services including individual, couples, and group therapy in English and Spanish for a variety of personal concerns including anxiety, depression, relationship problems, family issues, substance use, and stress.

Additional services include psychiatry services, outreach, consultation, support groups, presentations/workshops and biofeedback training.

UHCL Counseling Services SSCB 3.103, 281-283-2580, or www.uhcl.edu/counselingservices

Dean of Students

The Office of the Dean of Students (ODOS) provides a variety of programs and services designed to support students in achieving both academic and personal success. The ODOS is committed to fostering human dignity through acts of civility and respect; providing student-centered services and developing ethical leaders who work to create an inclusive community. The ODOS seeks to create student learning opportunities beyond the classroom that inspire intellectual, personal and civic growth for all students. The office staff serves as both advocates and liaisons for all students and are available to assist faculty, staff and parents in any way possible. Their primary purpose is to provide assistance to students and the university community in the following areas:

- · Academic Resources for Student Success
- · Campus Information Desk
- · Community Building
- · Conflict Resolution
- · Emergency Resource
- · Student Advocacy and Referral
- · Student Assistance Center (SAC)
- · Student Conduct
- · Student Judicial Services
- · Student Retention

Student Assistance Center

The Student Assistance Center (SAC) is a unit of the Office of the Dean of Students and provides assistance relating to registration, student financials, admissions, financial aid, student records, transcripts, E-Services, and academic and administrative issues. SAC provides support and general information to students, faculty, staff, and UHCL constituencies.

Student Advocacy

The Office of the Dean of Students provides referrals and support for students experiencing difficulties. This includes assisting students in resolving concerns and conflicts, making needed referrals, implementing student life policies and resolving disputes and disciplinary problems, including the Academic Honesty Policy.

Student Travel Policy

The University of Houston System has a policy that guides and directs all student travel. This policy, entitled "Travel by Students to Component University Funded Activity" (University of Houston System Administrative Memorandum - 03.E.08), is administered by the Office of the Dean of Students.

The purpose of the policy is stated as follows: This document outlines the policy to minimize risks of liability connected with travel by students of component universities. This policy applies to travel in excess of 25 miles that is undertaken by one or more students presently enrolled in a component university. Travel must be organized and sponsored by the component university and funded by the institution. The vehicles must be owned by the institution or an organization registered at the institution.

Copies of the policy can be obtained upon request at the office, or by accessing the Dean of Student's website at www.uhcl.edu/deanofstudents.

Disability Services

Disability Services promotes each student's learning experience by facilitating accessible programs and services for and fostering self-advocacy skills within students with disabilities, serving as consultants to students, faculty and staff, and educating the campus community on disability-related issues. Services include accommodations, alternative testing, assistive technologies, scholarships, and advocacy. The staff of Disability Services may facilitate referrals to other offices, which provide students with counseling, advising, tutoring, or financial assistance. To be eligible for services, a student must submit the online application form, speak with a staff member about their disability, and provide appropriate documentation which validates their request. Prior to the beginning of the semester, students should contact Disability Services to request their accommodations so they can be provided in a timely matter.

SSCB 1302, 281-283-2648.

Health Services

Health Services provides a wide range of professional services to UHCL students. It is dedicated to promoting good health and to providing emergency services and short-term medical treatment to any student who becomes ill or injured.

Health Services has a women's health care clinic and a medical clinic. Medical evaluations with physicians are available by appointment only. Complete laboratory services and a limited pharmacy are available. Students may receive flu shots, immunizations, TB screening and routine injections. Nurses are readily available to answer health questions on a walk-in basis.

Prevention programs include screenings and health education on various medical issues. Chiropractic clinic is available by appointment.

Undergraduate students who are enrolled in six (6) or more credit hours or Graduate students in three (3) or more credit hours are eligible to enroll for coverage within the posted open enrollment time period. Literature detailing the approved health insurance plan is available at the Health Center office. International students are required to have health insurance and are charged automatically at the beginning of each semester. International students may have this insurance waived only with documented proof of an appropriate alternative health insurance. International Admission and Programs office handles all waiver approvals.

SSCB 1301, 281-283-2626.

Math Center

The Math Center is an instructional facility that serves the educational needs of UHCL students enrolled in Mathematics or statistics courses, especially elementary school certification candidates who wish to strengthen their understanding of mathematical concepts and skills. Resources include one-on-one assistance, software, videos, reference books and manipulatives. The Math Center also teams with the Office of Career and Couseling Services to provide math success workshops.

Contact the Math Center at 281–283–3883 or mathcenter@uhcl.edu. B2107

Orientation and New Student Programs

A comprehensive orientation to UHCL is offered prior to each semester (including summer) for both undergraduate and graduate students. Beginning in the summer/fall 2014, new students must attend this mandatory program, which addresses such topics as how to register for classes, how to make the most of campus life and how to utilize the available resources. Students are also given the opportunity to tour the campus, as well as meet with faculty, staff and other students. Intermational students are encouraged to attend both this orientation and the New International Student Orientation sponsored by Intercultural and International Student Services. On–going support is provided to students through programs such as Mid–Term Madness and Finals Business Center as well as co–programmed events with different resources on campus.

Student Conference for Research and Creative Arts

This program provides an array of invaluable services for UHCL students. UHCL students from any discipline as well as students from other colleges and universities – are provided the opportunity to present their original research projects and works in a supportive, academic/professional setting at the

Student Conference for Research and Creative Arts. Numerous faculty members have incorporated the conference and its presentations into their course curriculum by either requiring students to present at the conference or attend and or/volunteer at the conference – effectively bridging the divide between student services and academics at UHCL. Not only does the conference give students the experience of serious academic presentation before their peers, but it also provides students not presenting the opportunity learn from their peers by simply attending the conference. The conference engages the diverse campus community in thoughtful discussion on any array of topics – an activity that echoes UHCL's own mission statement.

281-283-3375, Bayou 2608.

Student Diversity, Equity and Inclusion

SDEI provides advocacy, guidance, and support to enhance student success. SDEI promotes the retention and empowerment of a diverse student population, including racial/ethnic groups; and first generation, women, lesbian, gay, bisexual, trans-gender, international, and under-represented students. Through educational programs and services, SDEI facilitates the growth of culturally competent, respectful and well rounded global citizens.

- Student Advocacy All students seeking general advice or assistance with concerns or problems, may request assistance from the SDEI staff. The staff serves as an advisory resource to all individuals and groups of students, including under-represented, first generation, marginalized, international, LGBT and women populations.
- Student Ambassador Program SDEI Student Ambassadors serve as peer leaders and advocate for all students.
- Cultural Resource Center SDEI maintains a collection of periodicals, books, training manuals, newsletters, audiotapes, and videos on a variety of cultural topics.
- Cultural Programs/Festivals SDEI celebrates diversity on campus with a variety of cultural programs designed to enhance the campus community members' understanding of different cultural practices, beliefs, and histories.
- Student Organizations Staff provide support to ethnic and cultural student organizations and their events.
- Transition and Retention Programs SDEI offers programs specific to the needs of first-generation students (first in their family to go to college) to help them navigate the higher education system and help ease their transition.
- Strictly Speaking This program assists international students in improving their spoken English skills by pairing international students with U.S. students.
- Generation One GenOne is a learning community created to help incoming first–generation freshmen and sophomore students to transition, adjust and negotiate the campus environment for a successful academic and social experience.

Women's and LGBT Services

The SDEI Office offers women's services programming and others interested in women's issues. Programming is designed to promote gender equality and awareness. Advocacy and support are available for female students and others who need it.

The purpose of Women's and Lesbian, Gay, Bisexual and Transgender Services is to create educational programming for and about UHCL's female and LGBT students, staff, and faculty and to provide advocacy for their needs. These services and programs are open to all those who are interested in women's and LGBT issues. The women's programming includes increasing awareness of sexual assault, the contributions of women throughout history, and health issues such as breast cancer and heart disease. The LGBT programming includes a weekly discussion group and activities honoring LGBT History Month and National Day of Silence. We have also established a Safe Zone program which is a faculty and staff program created to identify a network of allies within the university.

Cultural Competency for Leaders, Social Justice, and Safe Zone Training

The SDEI Office offers three training workshops:

Cultural Competency for Leaders (CCL), Social Justice Training and Safe Zone. All workshops are open to UHCL faculty/staff and students.

Cultural Competency for Leaders (CCL) focuses on inclusion, diversity and multicultural issues prevalent in Higher Education. The goal is to promote understanding and appreciation of all backgrounds.

Social Justice Training examines the Meaning social identities have for us individually and collectively, Social Justice Training explores the dynamics of difference as it relates to diversity and social justice.

These training workshops are designed to provide participants with the tools needed to reduce barriers and create a more inclusive environment at UHCL.

Safe Zone is a place where all people feel safe, welcome and included. The UHCL Safe Zone was created to respond to the needs of the UHCL community. The mission is to provide a welcoming environment for LGBT students, staff, administrators, faculty and allies that reflect the highest ethical standards of our university and society.

These training workshops are designed to provide participants with the tools needed to reduce barriers and create a more inclusive environment at UHCL.

Student Housing

University Forest Apartments (UFA) is located on campus at the University of Houston-Clear Lake. It is just a short walk to all classes and campus events!

UFA accommodates a community of 288 students. UFA offers apartment style living with three floor plans, either private or semi-private to fit residents housing needs. Whether residents like to cook or eat out, each apartment has a full kitchen equipped with a refrigerator, dishwasher, stove and oven. The housing installment includes wireless internet, furniture (select floor plans), electricity allowance, and water/sewer. Residents also have access to on-site amenities such as a study room, swimming pool & spa, clubhouse, sand volleyball court, bar-b-que pavilion, and much more within the pet-friendly gated community.

UFA, believes it's responsibility extends beyond a bed for residents. UFA strives to create a total residential living experience that enhances university life and creates a supportive community for residents during a key stage of their personal and educational development. Residents living at UFA are offered a memorable campus experience where they will have fun, make friends, have access to support when needed, develop life skills and achieve their academic goals.

For more information, please call 281–286–5959, email: info@universityforestUHCL.com, or visit www.universityforestUHCL.com. ou can also find us on Facebook: http://www.facebook.com/UniversityForest.

Student Life

The Office of Student Life provides programs and services designed to enrich and support students' educational experiences through opportunities to express ideas, develop leadership skills and meet new people. Services provided include locker rentals, student ID cards, ticket sales and posting approval. The Student Life Office is comprised of the following components.

Student Organizations and Student Government Association

There are approximately 90 student organizations recognized at UHCL, which represent most academic program areas and majors as well as social, recreational and religious interests. The Student Government Association (SGA), with representation from each organization, funds and assists student organizations. The SGA also appoints students to university committees and conveys student concerns and initiatives to the university administration.

The Office of Student Life supports the varied activities of the organizations through leadership development programs, space allocations and fund disbursement. All students are encouraged to participate in the activities of these organizations.

Activities and Spirit Programs

There are a variety of activities and spirit programs on campus including Film & Speaker Series, Leadership Workshop Series, I HEART UHCL, Lighting of the Letters and our oldest campus tradition, the Chili Cook-Off.

Campus Recreation

Campus Recreation provides a range of services to the UHCL community, such as recreational activities, fitness memberships, locker rentals and personal training. Located inside the Student Services Classroom Building, the 3,000 square foot Fitness Room is equipped with aerobic machines, free weight equipment and locker rooms. Fitness Room membership for UHCL students is included in the Student Service Fee.

Honor Societies

UHCL's honor societies recognize students' academic excellence and achievement. UHCL honor societies are affiliated with national organizations; students are invited to become members based on the standards recognized by these chartering organizations. Some societies recognize accomplishments within specific disciplines while Phi Kappa Phi and Omicron Delta Kappa honor students from all academic disciplines.

Student Publications

The student newspaper, The Signal, is a digital newspaper published through the joint efforts of a paid student staff, students enrolled in the COMM 4665 Media Production class, and the contributions of an engaged student/faculty/staff campus community. The Signal is published year round to provide news, features, entertainment and opinion pieces concerning university events and issues. The newspaper serves as a public forum and encourages students, faculty and staff to submit contributed articles/essays/visuals, story ideas and comments. Submission guidelines can be found on its website. The Signal has received numerous awards in state and national collegiate competitions from the Texas Intercollegiate Press Association, Columbia Scholastic Press Association, and Associated Collegiate Press Association. Online issues of the Signal can be found at www.uhclthesignal.com; it is also available as an App.

Student Success Center

The Student Success Center is a comprehensive academic resource for the UHCL student community, which includes peer tutoring, supplemental instruction, and academic coaching. The focus of the center is to help students enhance their academic skills for a particular course. Moreover, the Center helps students more effectively manage information by using experience and guided practice exercises designed to building confidence and competence in the classroom.

The Student Success Center works cooperatively across the university (i.e. in conjunction with the Writing Center, Math Center, Disability Services, Career Services, Counseling Services, academic departments, students, faculty and staff) in an effort to maintain a strong consortium of resources aimed at increasing student success, retention and persistence. The Center is open and free of charge to all UHCL students.

SSCB 3102, 281-283-2643.

Writing Center

The Writing Center is an instructional facility where students, faculty and staff can work with trained tutors on their writing projects. Tutors collaborate with writers as they analyze assignments and audiences, revise documents by clarifying ideas and structure, and learn stylistic and editing strategies. The Writing Center offers face-to-face services at the UHCL and Pearland locations, as well as online tutoring for currently registered students.

For more information, contact the Writing Center at 281–283–2910, visit www.uhcl.edu/writingcenter, email writingcenter@uhcl.edu, or drop by SSCB 2105.

Veteran Services

It is the mission of the Capt. Wendell M. Wilson Office of Veteran Services staff to help veterans and their dependents flourish in their higher education pursuits. We will act as a liaison between the veteran, the school, the Department of Veterans Affairs (VA), and the Texas Veterans Commission in order to ensure these goals are reached with success. Our staff members are committed to assisting veterans and their eligible dependents with federal or state education benefits gained through military service.

Veterans entering UHCL should contact the Capt. Wendell M. Wilson Office of Veteran Services immediately to establish their benefits in a timely manner. For one-on-one counseling regarding your benefits, contact us directly at vso@uhcl.edu or by phone at 281-283-3071.

Services include:

- Providing certification of enrollment for the following federal benefits: Post 9/11 GI Bill,
 Montgomery GI Bill, Reservist Educational Assistance, Vocational Rehabilitation and Employment
 Program and Dependent Educational Assistance.
- · Processing of Hazlewood Exemptions and Hazlewood Legacy Act.
- · Determining eligibility for House Bill 269 (military service credit)
- \cdot Establishing residency for those who are receiving federal or state veteran education benefits.

Satisfactory Academic Progress for Veteran Benefits

Satisfactory academic progress for veterans receiving federal veteran educational benefits is defined by the Department of Veteran Affairs. Undergraduates must maintain a cumulative GPA of 2.000.

Veterans failing to achieve the required cumulative GPA will be placed on probation for one semester. At the end of the probationary semester, veterans who:

- Have not achieved the required semester GPA will be reported to VA as making unsatisfactory academic progress.
- Have achieved the required semester GPA but not the required cumulative GPA will continue to be on probation.

Satisfactory academic progress is also required of veterans, spouses and dependents utilizing the Hazlewood Exemption. Students must:

• Meet the GPA requirements of the institution's satisfactory academic progress policy in a degree or certificate program as determined by the institution's financial aid policy

• Not be considered to have attempted an excessive amount of credit hours as determined by the institution's financial aid policy

Enrollment Status

Fall and Spring Semesters

The amount of monthly housing allowance for Post 9/11 GI Bill students is paid based on the student's rate of pursuit.

Undergraduate students (enrolled in at least one lecture based course):

Full Time Enrollment = 12 hours or more

Three Quarter Time Enrollment = 9 hours to 11 hours

Half Time Enrollment = 6 hours to 8 hours

Less Than Half Time Enrollment = 5 hours or less

Graduate students (based on the number of hours the student is enrolled)

Full Time Enrollment = 9hours or more

Three Quarter Time Enrollment = 7 hours to 8 hours

Half Time Enrollment = 5 hours to 6 hours

Less Than Half Time Enrollment = 4 hours or less

Summer Semesters

Summer enrollment varies by the term in which the student is enrolled. To ensure your summer enrollment meets full time during the summer, please contact the Department of Veteran Affairs at 888-442-4551.

Students enrolled in half time OR less will not be eligible for Post 9/11 GI Bill monthly housing allowance. Students are responsible for notifying the Office of Veteran Services if their enrollment changes.

Online courses

Individuals only enrolled in distance learning courses will be eligible for a monthly housing allowance equal to 50% of the national average of all Basic Allowances for Housing. For the current rate, please visit www.va.gov.

Training Time (Chapters 30, 32, 35, 1606, and 1607)

VA benefits, for the chapters listed above, are paid based on training time. In a standard fall and spring semester, VA measures training time as follows:

Undergraduate students:

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12 credits - full-time
9-11 credits - <sup>3</sup>/<sub>4</sub>-time
6-8 credits - <sup>1</sup>/<sub>2</sub>-time
4-5 credits - less than <sup>1</sup>/<sub>2</sub>-time (<<sup>1</sup>/<sub>2</sub>-time)
1-3 credits - <sup>1</sup>/<sub>4</sub>-time or less (<<sup>1</sup>/<sub>4</sub>-time)

Graduate students:
9 credits - full-time
7-8 credits - <sup>3</sup>/<sub>4</sub>-time
5-6 credits - <sup>1</sup>/<sub>2</sub>-time
1-4 credits - less than <sup>1</sup>/<sub>2</sub>-time (<<sup>1</sup>/<sub>2</sub>-time)
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Hazlewood Act

The Hazlewood Act passed by the Texas legislature provides a waiver of tuition and certain fees for Texas veterans. Hazlewood benefits are not transferred from one state university to another therefore, veterans must reapply and provide the Capt. Wendell M. Wilson Office of Veteran Services with all necessary documents. For a complete list of documents, please visit www.uhcl.edu/veteran-services. A veteran may qualify for benefits under the Hazlewood Act if he or she:

- Have received an honorable discharge or separation or a general discharge under honorable conditions as indicated on the Veteran's Certificate of Release or Discharge from Active Duty (DD Form 214);
- At the time of entry into active duty the U.S. Armed Forces, designated Texas as Home of Record; or entered the service in Texas; or was a Texas resident;
- Served at least 181 days of active duty service (excluding training);
- Have no federal Veteran's education benefits, or have no federal Veterans education benefits dedicated to the payment of tuition and fees only (such as Chapter 33 or 31; for term or semester enrolled that do not exceed the value of Hazlewood benefits;
- Not be in default on a student loan made or guaranteed by the State of Texas;
- Enroll in classes for which the college receives tax support (i.e., a course that does not depend solely on student tuition and fees to cover its cost), unless the college's governing board has ruled to let Veterans receive the benefit while taking non-funded courses; and
- Meet the GPA and excessive hour requirements of the institution's satisfactory academic progress policy in a degree or certificate program as determined by the institution's financial aid policy and, as an undergraduate student, not be considered to have attempted an excessive amount of credit hours.

The Legacy Act allow veterans eligible for the Hazlewood Act to transfer unused Hazlewood hours to an eligible child. A child (legacy recipient) must:

- Be classified by the institution as a Texas resident;
- Be the biological child, stepchild, adopted child, or claimed as a dependent in the current or previous tax year;
- Be 25 years old or younger on the first day of the semester or term for which the exemption is claimed (unless granted an extension due to a qualifying illness or debilitating condition); and
- Meet the GPA and excessive hour requirements of the institution's satisfactory academic progress
 policy in a degree or certificate program as determined by the institution's financial aid policy and,
 as an undergraduate student, not be considered to have attempted an excessive amount of credit
 hours.

Students interested in using this benefit should contact the Capt. Wendell M. Wilson Office of Veteran Services for application instructions at vso@uhcl.edu.

Hazlewood Exemption Deadline

If the student provides his or her eligibility for the Hazlewood Exemption before the end date of each semester, then the institution must honor the waiver. Applications and all supporting documentation must be received by the institution no later than the last day of class in order to be evaluated for the semester or term.

Disabled Veteran Parking

In accordance with Texas Transportation Code 681.008 and 504.202, qualifying veterans will be issued a parking permit free of charge. The free permit is to be used for the Veteran only or while they are in the vehicle. Those exempt from paying a fee must display the following license plates on the vehicle:

- · Disabled Veteran,
- · Congressional Medal of Honor,
- · Former Prisoner of War,
- Pearl Harbor Survivor,
 Purple Heart Recipient,
- · Legion of Valor (Air Force Cross, Distinguished Service Cross, Army Distinguished Service
- · Cross, Navy Cross or Medal of Honor)
- · Legion of Merit License Plates
- · Bronze Star Medal
- · Distinguished Service Medal
- · Silver Star Medal

To request a free parking permit, the following items will need to be submitted to the Capt. Wendell M. Wilson Office of Veteran Services:

- 1. Supporting documentation which proves their status listed above(this is the same proof shown at the Tax Assessor's Office to obtain your specialty license plates)
- 2. Current UHCL student/faculty/staff ID
- 3. Texas driver's license

Residency

Pursuant to Texas Education Code, Section 54.058 (k), military personnel, veterans and dependent students who are receiving federal VA education benefits may qualify for in-state tuition and fee rates, regardless of the length of time residing in Texas. If you are receiving federal VA education benefits and are being assessed out-of-state tuition, please contact the Capt. Wendell M. Wilson Office of Veteran Services for assistance.

House Bill 269

House Bill 269 allows veterans who enroll in Texas universities to be eligible to receive undergraduate college credit for the time they spent in the services if certain requirements are met.

Eligible veterans can receive college credit for an additional 12 semester credit hours of general elective course work to satisfy the degree requirements for your program of choice.

In order to be eligible to receive college credit for military service, you must have:

- Graduated from a public or private high school accredited by a generally recognized accrediting organization or from a high school operated by the U.S. Department of Defense.
- Completed a minimum of two years of Active Duty service in the Armed Forces; unless medically discharged
- Been honorably discharged from the armed forces

Contact the CAPT. Wendell M. Wilson Office of Veteran Services to discuss your eligibility.

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Director of Career Services Charles Crocker, M.Ed.

Director of Student Conference for Research and Creative Arts Michael Hunt, M.A.

Director of Health Services Regina Pickett, R.N, M.S.N.

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Undergraduate Information

Undergraduate information contains an overview the services and policies that pertain to undergraduate. This information was published in August 2017, and becomes effective with the beginning of the fall 2017 semester.

Distance and Off-Campus Education

In an attempt to meet the need for flexibility, the university offers classes in a variety of formats and at several convenient locations. Students can opt to complete selected bachelor's degrees at centers close to their home or office. Alternatively, they can choose to take coursework online. Many of UHCL's degree programs offer Web enhanced classes. Students and faculty can make use of the online environment to supplement traditional classes – decreasing the amount of time students actually spend in the classroom.

Online and Off-Campus Education at UHCL facilitates and supports the delivery of UHCL courses, degrees and certificate programs as defined by the UHCL catalog.

Course Delivery Formats

Distance Education (DE) is any instruction that takes place outside the UHCL campus classroom setting. University of Houston–Clear Lake offers students the opportunity to supplement their on–campus coursework. Classes offered through DE are regular UHCL classes taught by UHCL faculty with the same pre–requisites and requirements as classes taken on campus. Classes are offered in a variety of formats that provide options for students:

- Online (Internet) This format is delivered via the Internet using a course management tool called Blackboard with all class instruction delivered and course requirements fulfilled online. No face—to–face instruction and student interaction or face—to–face student group interaction is required. Courses offered online provide an environment for flexible learning and teaching while delivering the same high–quality content as in a traditional setting. Some online courses require proctored exams. UHCL's online classes are NOT open entrance/open exit or traditional correspondence courses. Although students are free to do their work online any time it fits into their weekly schedules, assignments are due as specified in the individual course syllabus.
- Web enhanced (Hybrid) With this format, classroom instruction is delivered and course requirements are fulfilled via a combination of face-to-face instruction at the UHCL campus and off-campus sites and online. In a web enhanced class, an instructor can deliver all instruction online but require students to attend mandatory orientation, class presentations, and in-class examinations. The number of face-to-face meetings is determined by the instructor and can be found on the footnotes

- for the class on the UHCL class schedule. The Web enhanced format is popular both on the UHCL campus and at the off-campus learning centers.
- Off-campus courses UHCL offers courses for selected degree programs at off-campus learning centers. Courses at our off-campus learning centers may be offered face-to-face in a traditional classroom, or as a Web enhanced class.

UHCL is committed to using the most current instructional techniques to ensure comparable learning outcomes between course work delivered in a traditional, Web enhanced, or online format. It is recommended that students have their own computer with access to the Internet prior to registering for an online class. The university and off-campus centers have fully equipped computer labs that students may use.

Admission Requirements

Admission requirements are identical to those for students participating in degree programs on the UHCL campus. Students interested in participating in a distance education program must indicate so on the UHCL Application for Admissions. Program options at different off-campus learning centers and programs offered online are identified in the admissions application.

Registration

Upon successful completion of the application process, students can register for classes online through E-Services. Tuition and fees can be paid by credit card or students can arrange to make installment payments. Students who register to take classes at an off-campus location must attend classes at that particular location.

Financial Aid and Scholarships

UHCL provides quick and easy access to financial aid and scholarship information to students at a distance. Eligibility for this assistance is the same as for on-campus students. All forms, complete list of scholarships, timelines and instructions are available online at the Financial Aid website. Financial assistance is available to distance education students, as it would be for on-campus students. Please refer to www.uhcl.edu/finaid for more information.

Student Services

The Online and Off-Campus Education office has developed unique advising procedures to best serve the needs of its students. Advisers are available to assist students via face-to-face appointments, telephone

or email. Academic advising is available at each of the off-campus locations. To schedule an appointment, please e-mail Disted@uhcl.edu or call 281-212-1615.

UHCL also provides student services to off-campus and online students. For assistance in accessing these services, call the DE office at 281-212-1615 or the Student Assistance Center at 281-283-2722. Services include:

- Student photo IDs available at off-campus locations
- · Academic advising for students in online programs
- · Career exploration online and at the UHCL Pearland Campus
- Online tutors in writing and specific content areas. Tutoring is also available at the UHCL Pearland Campus and Texas Medical Center.
- · Online Bookstore
- · Online Course Support
- · Online study skills assessment
- General university information via email and phone from the Student Assistance Center (SAC)
- · Online access to the online student news publication, The Signal
- · Disability services, available both online and off-campus
- Virtual Library services
- Counseling information available online and personal counseling available at the UHCL Pearland Campus.

Additionally, UHCL email is the official method of communication between the university and students. Students will receive official UHCL notifications (i.e. financial aid award packages) through their UHCL email accounts. It is the students' responsibility to check their accounts regularly.

Online Programs

All online programs and certificates offered by UHCL can be found at www.uhcl.edu/online.

Off-Campus Programs

All off-campus programs offered by UHCL can be found at www.uhcl.edu/off-campus-education.

Financial Aid

Financial Aid Programs

The financial aid programs listed below are available to students seeking an undergraduate degree at University of Houston–Clear Lake. Students who wish to apply for financial aid should complete the Free Application for Federal Student Aid (FAFSA) online at www.fafsa.gov. UHCL's federal school code is 011711. More information regarding the types of aid listed below can be found at www.uhcl.edu/finaid.

Program

- · Federal Pell Grant
- Federal Supplemental Education Opportunity Grant (FSEOG)
- · Federal TEACH Grant
- Texas Public Educational Grant (TPEG)
- · TEXAS Grant
- · State funded Scholarships
- University Administered Scholarships
- · New Hawk Scholarship
- Hawk Advantage Scholarship
- · Automatic Transfer Scholarships
- · Fifth Year Accounting Scholarship
- · Resident Undergraduate Student Assistance Grant
- · State of Texas Waiver and Exemption Programs
- Federal College Work Study Program (FWSP)
- · Texas College Work Study Program (TWSP)
- · Federal Perkins Loan
- *Federal Direct Subsidized Stafford Loan
- Texas College Access Loan
- · Federal Direct Parent Loan for Undergraduate Student (PLUS) Loan
- *Federal Direct Unsubsidized Stafford Loan

*All students applying for their first Federal Direct Loan must complete entrance loan counseling and an electronic Master Promissory Note (eMPN) at http://studentloans.gov before loan funds can be disbursed.

Program availability is never guaranteed. Financial aid programs are subject to change at any time.

Qualifying for Financial Aid Programs

Students must meet these minimum requirements:

- Be a U.S. citizen, U.S. national (includes natives of American Samoa or Swain's Island) or U.S. permanent resident who has an I-151, I-551 or I-551C (Permanent Resident Card)
- Be admitted to a degree-seeking undergraduate program
- Be enrolled at least half-time (a minimum of 6 hours) at UHCL (Pell grants may be awarded to students enrolled less than half time)
- Be making satisfactory academic progress toward a degree or certification
- · Not be in default on any education loan or owe a refund on a federal and/or state grant
- Be registered with Selective Service System, if male.
- Possess a High School Diploma, GED, Homeschool Completion Record, or equivalent of a high school diploma

Applying for Financial Aid

Because regulations governing financial aid change each year, students are required to reapply and submit new documentation annually. Funding sources and requirements change from year to year, and the amount and type of aid awarded to students may also change. All financial aid applicants are required to submit the following:

- 2017–2018 Free Application for Federal Student Aid (FAFSA) available online at www.fafsa.gov.
- If the FAFSA is selected for a process called verification, the student/spouse and parent (if dependent) must provide the supplemental information requested by the Financial Aid Office.

The priority deadline is March 15 of each year. Students applying after March 15 can expect the majority of the grant money to be exhausted.

The FAFSA and any additional documents will not be reviewed or processed until admission requirements have been met.

Students must submit ALL requested documentation to the Office of Student Financial Aid one month before the end of the term they wish to receive financial aid. Failure to adhere to this deadline can prevent the student from being awarded and disbursed financial aid.

Awarding of Aid

Financial aid is awarded based on the information received on the FAFSA. It is our institutional policy to award available grant, scholarship, and work study funds before considering the student for student loans.

UHCL's policy is to award all eligible students based on full-time enrollment. Students will be given the option to update their intended enrollment. However, final awards will be based on actual enrollment. Therefore, eligibility and enrollment must be verified before funds are disbursed to each student's account at the beginning of each semester.

Enrollment must again be verified after classes begin. Awards that are processed after the semester begins are based on the actual number of hours in which students are enrolled, excluding hours of withdrawal.

Students whose files are incomplete should be prepared to pay for their tuition, fees, books and supplies at the time of registration. Financial aid will not be awarded until all financial aid documents have been received and admission requirements have been met.

F-mail as Official Communication

The university-assigned campus e-mail address is the official communication vehicle for all student information and exchanges among academic administrative offices. The following notifications will be sent via e-mail:

- · Requests for additional information
- Notices of scholarship deadlines and opportunities
- Award notices
- · Disbursement notices
- · Award revisions
- · Required consumer disclosure information

Also, most required consumer disclosure information is contained in the UHCL Financial Aid Guidebook located on the UHCL financial aid website (www.uhcl.edu/finaid).

Students should check their UHCL e-mail accounts regularly to receive information from the Office of Student Financial Aid as well as other university offices. For information regarding UHCL e-mail, or to log in, go to http://webmail.uhcl.edu.

Students have the ability to forward their UHCL e-mail account to a preferred e-mail account. Students interested in this option should visit University Computing and Telecommunications' website at www.uhcl.edu/uct.

Students wishing to receive a paper copy of all notifications must submit their request in writing to:

University of Houston-Clear Lake
Office of Student Financial Aid
Attn: Executive Director of Financial Aid
Box 5
2400 Bay Area Blvd.
Houston, TX 77058

Disbursement of Funds

Financial aid disbursement occurs when grants, loans, or schoalrships are applied to a student's UHCL account.

Financial aid disbursements begin approximately 7 days prior to the first class day. In some cases, financial aid disbursements may occur after the fee payment deadline. Any student who has anticipated aid showing on their student account in E-Services does not need to make payment arrangements for the fee payment deadline if the anticipated aid will pay their account balance in full. Students whose accounts will be paid in full with anticipated aid will not be charged late fees.

Aid applied to a student's account will be applied to the current balance first.

If the financial aid credited to a student's account creates a credit balance, a refund will be issued to the student by Student Business Services after the term begins.

Some forms of financial aid, such as TEACH Grant and TEXAS Grant, may not disburse until after census date. Students concerned about a late payment due to these types of anticipated aid should contact the Office of Student Financial Aid.

The Office of Student Financial Aid will notify students by e-mail when their financial aid is applied to their UHCL account.

Criteria for Satisfactory Academic Progress

Under federal and state statutes all students applying for or receiving federal or state financial assistance must be making satisfactory academic progress (SAP) toward a degree or eligible certification. The Office of Student Financial Aid also uses this requirement for awarding institutional funds.

Students receiving some waivers and exemptions must meet certain components of SAP.

Review for SAP is done at the time the student first applies for financial aid and at the end of each semester. SAP is based on the following qualitative and quantitative measures:

Grade Point Average

The qualitative measure requires that undergraduates and students working on a second bachelor's degree or teacher certification need to have maintained a cumulative UHCL Grade Point Average (GPA) of 2.000 or better.

*Financial Aid calculates a cumulative GPA for purposes of Satisfactory Academic Progress, which includes all grades received. Students repeating a course will have all grades included in their Financial Aid cumulative GPA calculation.

Completion Ratio

The quantitative measure requires that students must have completed 75% of their cumulative attempted hours (including transfer hours accepted by UHCL). This percentage is derived by dividing the total number of hours completed by the total number of hours attempted. Attempted hours are the total number of hours completed plus hours of "WX", "WQ", "I", "F", and "IP". Hours of "WX", "WQ", "I", and "F" are considered "not completed" and negatively affect the ratio requirements. The percentage derived must be 75% or greater.

Timeframe to Complete Academic Program

First or second bachelor's degree or teacher certification without a bachelor's degree: Students must complete their degree(s) within a total of 171 hours (including transfer hours). Hours counted include all coursework taken at UHCL (including "WX", "WQ", "I", "F", and "IP" grades) and accepted transfer coursework.

Students enrolled in the following programs must complete their program within the specific time frame listed below:

- Pre-Engineering Program 99 credit hours
- · Post-Bachelor Pre-Engineering Program 99 credit hours

Students wishing to pursue a third bachelors degree will be considered on a case-by-case basis.

Note: Students changing plans are still held to timeframes originally begun with the first major chosen.

Appeal Process for Denial Based on Unsatisfactory Progress

Students who fail to meet the grade point average requirement or the completion ratio requirement will be given a "financial aid warning" for the following semester. Students will be notified via UHCL email of their warning status. Students who fail to meet SAP the following semester will not be eligible to receive financial aid unless they complete a SAP appeal and academic plan and that appeal is approved.

Students who fail to meet the timeframe requirement are not granted an automatic warning status and will not be eligible to receive financial aid unless they complete a SAP appeal and academic plan and that appeal is approved.

Appeals are considered for the following reasons:

• Increase in workload at place of employment because of promotion or overtime. Documentation from the employer may be required.

- Personal illness or serious illness of immediate family members, such as spouse, child, parent, or sibling. Documentation is required. Acceptable forms of documentation include but are not limited to receipts for doctor visits, insurance Explanation of Benefits (EOB), or a note from the doctor.
- Death of a family member. Documentation is required, such as a death certificate, obituary, prayer card, or brochure from the funeral or memorial service.
- Mitigating circumstances. Appropriate support documentation may be required.

Each appeal is reviewed on its own merit.

Appeal forms are available online at www.uhcl.edu/finaid under Online Forms and Services and must contain the following:

- Why the GPA is below the minimum requirement and how the student plans to bring the GPA up to the minimum requirement.
- Explanation of withdrawal from courses or the reason for not completing the courses.
- The number of courses or credit hours remaining for the student to complete the degree.

Academic plan forms are available online at www.uhcl.edu/finaid under Online Forms and Services. These forms must be completed with an academic adviser. Students should contribute to the academic plan to ensure success.

Appeal forms and academic plans must be submitted to the Office of Student Financial Aid by the census date each semester. (Appeals received after this date may be reviewed at the discretion of the SAP Committee.) A copy of the student's Candidate Plan of Study must be submitted with the appeal. Incomplete appeals and academic plans will not be considered. The SAP Committee will review all appeals at least twice per month. All decisions reached by the SAP Committee are final. Students will be notified via their UHCL e-mail regarding the outcome of their appeal.

Students whose SAP appeals are approved will receive financial aid for one semester on a probationary basis. At the end of that semester, students who are meeting the three criteria for SAP or are following the terms of the academic plan will not have to appeal. Students who are not meeting SAP will be notified via their UHCL email and they may submit another SAP appeal to the Office of Student Financial Aid.

Financial Aid Policy for Students Withdrawing from the University

Per Federal regulations students who receive financial aid and completely withdraw from the university must repay all or part of their financial aid according to the policy explained below.

Financial aid recipients who receive federal student aid who withdraw on or before the 60% point in time of the semester enrolled will have the percentage and amount of Title IV unearned assistance calculated by the university. The unearned funds must be returned to the Title IV programs. The federal formula used to determine the less than 60% portion of enrollment requires that the number of calendar days in

the period of enrollment for which the assistance is awarded be divided into the number of calendar days completed in that period as of the day the student withdrew. The Office of Student Financial Aid will then determine the amount of money to be returned.

A student who obtains all "F" grades or a combination of withdrawals and F grades will be considered an unofficial withdraw. The Office of Student Financial Aid will use the date of last attendance input by the professor on the grade roster as the date of withdrawal for the term. If the date of withdrawal is on or before the 60% point in time of the semester enrolled, the student will have the percentage and amount of Title IV unearned assistance calculated by the university. The Office of Student Financial Aid will then determine the amount of money to be returned. Aid may also be adjusted or cancelled if student never attended the course.

While rare, some students may be eligible for a post-withdrawal disbursement. The Office of Student Financial Aid will contact these students. Students should carefully read the deadlines given to be eligible for the disbursement.

Federal Refund Distribution Priority

Refunds will be applied to the funds received by the student in the following priority:

- Federal Direct Loan Program (DL) Unsubsidized Stafford Loan
- Federal Direct Loan Program (DL) Subsidized Stafford Loan
- · Federal Perkins Loan
- · Federal Direct Loan Program (DL) PLUS Loan
- · Federal Pell Grant
- Federal Supplemental Educational Opportunity Grant (FSEOG)
- · Federal TEACH Grant
- · Other Title IV programs

Dropping From a Class but Retaining Half-Time Status

Financial aid awards are based on full-time status. Students can request a package based on enrollment less than full-time. Students who change their enrollment status prior to census day will have their awards reevaluated based on their actual enrollment. Students who received funds based on the original enrollment status may be required to make repayment of the appropriate funds.

Students who reduce their course load after census day but remain enrolled at UHCL at least half-time will not have their financial aid adjusted and will not owe a refund. However, dropped courses are considered in the ratio calculation used to determine satisfactory academic progress.

College Work Study

Students awarded a college work-study (CWS) job as part of their financial aid package work on or off campus for up to 20 hours per week and are paid on a biweekly basis. Students who are awarded CWS can apply for jobs on the Office of Student Financial Aid's website (www.uhcl.edu/finaid).

Exit Interview

When Stafford Federal Direct loan or Perkins loan recipients complete a degree or drop below half-time, federal statutes require those students to have an exit interview to clarify and establish a repayment schedule on any monies owed. Students' academic records may be encumbered if the student borrower does not complete an exit interview.

Stafford exit interviews are completed online at http://studentloans.gov. Perkins exit interviews may be scheduled through Student Business Services.

State Waivers and Exemptions

The Office of Student Financial Aid coordinates the application for several state waivers and exemptions listed below. Students can find detailed information for each waiver and exemption at: www.collegeforalltexans.com

- · Research Assistants and Teaching Assistants Waiver
- · Competitive Scholarship Waiver
- Good Neighbor Scholarship Program
- · Waiver for College Faculty and their Dependents
- · Adopted Students Formerly in Foster or Other Residential Care
- · Exemption for Students under Conservatorship of the Dept. of Family and Protective Services
- · Educational Aide Exemption
- Blind/Deaf Student Exemption Program
- · Exemption for Highest Ranking High School Graduate
- · Exemption Program for Children of Professional Nursing Program Faculty and Staff
- Exemption Program for Clinical Preceptors and Their Children
- Firefighter Tuition and Laboratory Fee Exemption Program

Exemptions allow special groups of Texas residents or nonresidents to enroll and pay a reduced amount of tuition and fees. Waivers allow special groups of nonresidents to enroll and pay a reduced nonresidents tuition rate.

Unless noted otherwise, all applications for waivers and exemptions must be submitted to the Office of Student Financial Aid by the census date for which the waiver/exemption would be applied. All applications after the census date will be reviewed on an individual basis and may be denied.

Senate Bill 1210 (83rd Texas Legislature, Regular Session) adds a **Grade Point Average requirement for persons to receive continuation awards on certain waivers/exemptions listed above. The Bill also establishes a Limit to the Total Number of Hours, cumulative, that a student may take and continue to receive awards. Please refer to www.uhcl.edu/finaid for more information.

Scholarships

The Office of Student Financial Aid is committed to awarding scholarships to students consistent with the educational mission of our university. UHCL offers Automatic Transfer Scholarships, Hawk Scholarship, Hawk Advantage Scholarship and New Hawk Scholarships to new undergraduate students who meet certain GPA requirements. Additionally, UHCL offers scholarship opportunities to other new students and to continuing students. For additional information, please visit www.uhcl.edu/scholarships.

New Hawk Scholarship

Eligibility

- · Top 15% of High School Class; or
- 1170 SAT score (or 1100 if using the old SAT score); or
- · 24 ACT; and
- · Texas Resident; and
- · Graduate High School in the 2017-2018 Class

Amounts

• Award amounts will range from "full-ride" (tuition, fees, housing, and books) to \$1000 per year.

Renewal Eligibility

New Hawk Scholarship can be renewed for an additional 3 years. Students must maintain a cumulative 3.0 GPA and complete 24 hours in an academic year for this scholarship to be renewed.

The application process will begin in September 2017. Applications will be due by February 1, 2018. Interested students should monitor www.uhcl.edu/finaid for additional instructions.

Note: This will be a highly competitive scholarship. Not everyone who applies for the scholarship will receive the scholarship.

Hawk Advantage Scholarship

Eligibility

- · Texas Resident; and
- Graduate High School in the 2017–2018 Class; and

- Complete the 2018-2019 Free Application for Federal Student Aid (FAFSA)-completed online at www.fafsa.gov by March 1, 2018, and determined to have unmet need; or
- Compete the 2018–2019 Texas Application for State Financial Aid (TASFA), if eligible, by March 1, 2018, and be determined to have unmet need; and
- · Attend UHCL for at least 12 hours per semester each fall and spring term; and
- Be admitted unconditionally to UHCL for the fall 2018 term.

Amounts

• Award amounts up to \$2500/year. Renewable for an additional 3 years of your undergraduate program. **Total Commitment up to \$10,000 (if renewal criteria is met)**.

Renewal Eligibility

Hawk Advantage Scholarship can be renewed for an additional 3 years. Students must maintain a cumulative GPA of at least 2.5; remain in good academic standing; and must complete at least 24 hours at UHCL an academic year for this scholarship to be renewed.

The application process will begin in September 2017. Applications will be accepted until all awards are made. Interested students should monitor www.uhcl.edu/finaid for additional instructions.

Note: Scholarships are based on unmet need. Not all students who apply will be awarded a scholarship.

Automatic Transfer Scholarship

Eligibility

- · New, first-time degree-seeking undergraduate student
- Transferring from another college or university with at least 30 or more transferable hours.
- Have a transfer grade point average of 2.75 or higher (as computed by the Office of Admissions from official transcripts)
- Enroll in 9 hours or more at UHCL
- · No application needed

Amounts

• \$1500 for the year (\$750 each long semester) will be awarded if the transfer GPA is 2.75 or higher

Renewal Eligibility for the Second Year

- Received the scholarship in their first year
- · Maintained consecutive enrollment in the first two long semesters at UHCL
- Earned a minimum of 18 semester hours of academic credit at UHCL before the start of the 3rd long semester
- · Maintained a cumulative UHCL GPA no lower than 2.75

• Enrolled in 9 or more hours at UHCL in the third consecutive long semester

Note: ATS is a non-competitive scholarship. Scholarship recipients are not entitled to a waiver of non-resident tuition and fees.

Enrollment Status

The amount of financial aid a student can receive is dependent upon the number of hours in which the student is enrolled. The following are enrollment statuses for undergraduate students based on the number of hours the student is enrolled:

Enrollment Status	Credit Hours
Full Time Enrollment	12 hours or more
Three Quarter Time Enrollment	9 hours to 11 hours
Half Time Enrollment	6 hours to 8 hours
Less Than Half Time Enrollment	5 hours or less

Students enrolled less than half time will not be eligible for student loans.

Students are responsible for notifying the Office of Student Financial Aid if their enrollment changes.

Students may not repeat a previously passed course more than once for financial aid purposes. For example, a student completes a course with a "D". The student repeats the course in a subsequent semester. Regardless of the grade in the second attempt, the student may not repeat the course and receive financial aid for the course for a third attempt. Even if the student earns an "F" in the second repeat, financial aid will not cover a 3rd attempt at the course. However, if the student earns an "F" in the first and second attempt of the course, financial aid will cover the 3rd attempt of the course. (Note: Satisfactory academic progress requirements may prevent the student from being eligible for financial aid to complete subsequent attempts).

General Program Requirements

Student Responsibility

Students are responsible for knowing all degree requirements and enrolling in courses appropriate for their chosen degree programs. Students also are responsible for knowing all university regulations regarding student affairs and course work standards required for study undertaken in the university. While this catalog was prepared on the basis of the best information available at the time, all information

including statements of fees, course offerings, admissions and graduation requirements is subject to change without notice or obligation. The most recent information regarding degree requirements and academic standards may be obtained from the appropriate dean's office. Student affairs information may be obtained by contacting the Office of the Dean of Students, or by contacting the individual student services offices.

Classification of Students

Classification	Hours Completed
Freshman	1-29 hours completed
Sophomore	30-59 hours completed
Junior	60-89 hours completed
Senior	90 hours or more completed but not graduated

Post-baccalaureate students have previously earned bachelor's degrees and are enrolled in undergraduate course work at UHCL. These students are considered as undergraduate students for all academic purposes and are not eligible to enroll in graduate courses except under the provisions outlined for undergraduate enrollment at the graduate level.

Classification is determined by the Office of the Registrar. Only hours earned at UHCL and hours accepted in transfer from other institutions will count toward the student's classification.

Degrees Offered

University of Houston-Clear Lake (UHCL) is authorized by the Texas Higher Education Coordinating Board to confer six degrees in 51 undergraduate majors.

Undergraduate Degrees Conferred

- Bachelor of Applied Science (B.A.S.)
- Bachelor of Arts (B.A.)
- Bachelor of Fine Arts (B.F.A.)
- · Bachelor of Science (B.S.)
- Bachelor of Science in Nursing (B.S.N.)
- Bachelor of Social Work (B.S.W.)

Undergraduate Plans Offered

College of Business

· Accounting (B.S.)

- Environmental Management (B.S.)
- · Finance (B.S.)
- · General Business (B.S.)
- · Healthcare Administration (B.S.)
- · Healthcare Services (B.A.S.)
- · Legal Studies (B.S.)
- Management (B.S.)
- Management Information Systems (B.S.)
- · Marketing (B.S.)
- · Professional Accounting (B.S.)

College of Education

- · Addictions Counseling (B.S.)
- Early Childhood Care and Education (B.S)
- Early Childhood Education (B.A.S.)
- Early Childhood Education Educator of Young Children Track
- Interdisciplinary Studies (B.S.)
 - Core Subjects EC-6 Certification (Early Childhood Concentration)
 - · Core Subjects EC-6 Certification (Reading Concentration)
 - · Core Subjects EC-6 with Bilingual Supplemental Certification
 - · Core Subjects EC-6 with EC-12 Special Education Certification (All Level)
 - · Core Subjects EC-6 with ESL Supplemental Certification
 - · Core Subjects 4-8 Certification
 - · Core Subjects 4-8 with ESL Supplemental Certification
- · 4-8 Science Certification
- · 4-8 Social Studies Certification

College of Human Sciences and Humanities

- · Anthropology (B.S.)
- · Art and Design (B.F.A.)
- · Behavioral Sciences (B.S.)
- · Communication (B.A.)
- · Criminology (B.S.)
- · Fitness and Human Performance (B.S.)
- · Geography (B.S.)
- · History (B.A.)
- · Humanities (B.A.)
- · Literature (B.A.)
- · Nursing (B.S.N.)
- · Psychology (B.S.)

- · Public Service Leadership (B.S.)
- · Social Work (B.S.W.)
- · Sociology (B.S.)
- · Women's Studies (B.A.)

College of Science and Engineering

- · Biological Sciences (B.A., B.S.)
- · Chemistry (B.A., B.S.)
- · Computer Science (B.S.)
- · Computer Information Systems (B.S.)
- · Computer Engineering (B.S.)
- Environmental Science (B.S.)
- · Information Technology (B.S., B.A.S.)
- · Mathematical Sciences (B.A., B.S.)
- · Physics (B.S.)
- Pre-Engineering (Transfer Plan)

Enrollment Policies

In conjunction with academic performance standards, the policies listed below are utilized by the university in monitoring the academic progress of students.

Course Load

Students should be aware that academic work will be at advanced levels and should consider individual abilities when determining an appropriate course load. Course load limits may be set as terms of probation or readmission to the university after suspension. The university limits course loads to a maximum of 19 hours during the fall and spring semesters. For the summer semester, the limit is 12 hours.

In evaluating their ability to carry a certain course load, students should consider:

- Time available for class preparation
- · Whether an excessive load might endanger academic standing
- · Physical and mental stamina
- Financial factors of commuting costs, tuition, fees and personal budget.

Under the Department of Homeland Security (DHS) regulations, international students are required to maintain full-time enrollment during each fall and spring semester. In addition, no more than three credit hours per semester taken online may be counted towards full-time enrollment for F and J student visa holders.

Full-Time/Part-Time Status Course Load

A student's enrollment status is determined by the number of credit hours for which the student is enrolled at UHCL each semester. Enrollment statuses are listed below:

Enrollment Status	Credit Hours
Full Time Enrollment	12 hours or more
Three Quarter Time Enrollment	9 hours to 11 hours
Half Time Enrollment	6 hours to 8 hours
Less Than Half Time Enrollment	5 hours or less

For the summer term, all hours are added together between sessions to arrive at the total number of hours for the summer.

When enrolled in a cooperative education course, students will be considered full-time for purposes of enrollment verification. The above hours requirement may differ for financial aid purposes. Please review the section of the catalog on Financial Aid or contact the Office of Financial Aid.

Resident Credit

Resident credit is defined in two ways:

· Credit awarded for successful completion of academic work undertaken at UHCL

or

- Credit awarded for successful completion of academic work undertaken at another college or university provided that
 - · Students are candidates for degrees at UHCL and
 - Students have written approval of their faculty adviser and their appropriate associate dean before undertaking academic work elsewhere.

Students should be aware that credits earned elsewhere without prior approval from UHCL are not considered credits "earned in residence" for the purpose of fulfilling general degree requirements.

Class Attendance

Regular class attendance is expected of all students. What constitutes an acceptable rate of class attendance is a matter between students and their instructors, although the university expects instructors to maintain reasonable standards. Whenever instructors determine that students' absences have been excessive, they have the right to request that the appropriate associate dean withdraw the students from the course.

Dropping or Withdrawing from Classes

Drop/Withdrawal Time Frame

Students may drop one or all classes without a grade penalty through the census date of the semester or session. Classes that are dropped through the census date will not be posted on a student's official or unofficial transcript. Students may drop classes online through their E-Services account. Please see the Academic Calendar at www.uhcl.edu/registrar for the census dates of the semester or session.

Students who drop a class or withdraw from all classes after the census date of the semester or session, but no later than the withdrawal deadline as stated in the Academic Calendar will receive one of the following grades: "WQ" (Student-initiated drop, No Evaluation) or "WX" (Administrative Drop or Withdrawal, No Evaluation). These grades imply no evaluation of students' performance prior to the withdrawal. Students may retain auditing privileges with the instructor's consent.

Student-Initiated Withdrawals

Once students have registered and paid tuition/fees for the course section, they are considered enrolled in the course(s) until they have officially dropped/withdrawn or received a grade. Nonattendance does not automatically terminate students' enrollment in the course(s) and does not exempt them from any academic or financial responsibilities. Students who stop attending class without officially dropping/withdrawing from the course(s) will receive a final grade based on coursework completed.

If a student wishes to drop any or all of their classes, they are responsible for doing so online through E-Services by the deadlines stated in the Academic Calendar. Withdrawal requests in writing can also be made by mail or by fax to 281–283–2530 and are effective on the date of receipt. Please contact the Office of the Registrar for additional assistance at registrar@uhcl.edu. The student assumes responsibility for written requests for drops/withdrawals that are delayed or not delivered. Drops/Withdrawal requests received after the deadlines stated in the Academic Calendar will not be processed. Student-initiated drops and withdrawals are irrevocable. Retroactive drops or withdrawals are not permitted. Students lose all university privileges on the date the withdrawal from the university is effective.

Course(s) dropped through the published Census Day will not appear on the transcript. Course(s) dropped after the Census Day and through the published withdrawal deadline will appear on the student's transcript with a grade of WQ. Census Day and Withdrawal deadlines are published online in the Academic Calendar.

All outstanding bills and university obligations must be paid/fulfilled. This includes any payment plans or loan agreements issued by Student Business Services. Contact Student Business Services for additional information. Students receiving financial aid are advised to contact the Office of Financial Aid prior to making changes in their enrollment status. Reducing semester hours to zero is considered a withdrawal

and the Refund Schedule will be followed. Please refer to the Refund Schedule on the Student Business Services' website for information about deadlines.

Administrative Withdrawals

The university reserves the right to withdraw students from a class or all classes if, in the judgment of the appropriate university officials, such withdrawals are in the best interests of the students and the university. Students may be withdrawn for reasons of health, irresponsible financial conduct, unacceptable personal conduct, Honesty Code violations or other academic infractions, or disregard of official summonses to respond to official requests.

Students who are requesting a current semester medical withdrawal must submit a Student Appeal form to the Office of the Registrar before the end of the current semester if they cannot withdraw themselves by the withdrawal deadline. Please refer to the academic calendar for more information regarding deadlines. A medical withdrawal formally drops all courses in a term.

Written appeal for a medical withdrawal should address each of the following:

- 1. Describe the medical condition/circumstances that required you to withdraw from the university.
- 2. Explain in detail how/why the medical condition/circumstances prevented you from completing the academic term.
- 3. Detail the dates of the onset of your medical condition/circumstances, along with the dates of any treatment you received, if appropriate.
- 4. If you stopped attending classes, explain why and when. (Please note: nonattendance does not exempt you from academic and financial responsibilities.)
- 5. If you did not utilize the regular withdrawal process, explain why not.
- 6. Explain what relief you are seeking from this request. Be as specific as possible. Note: Medical withdrawals do not refund tuition and fees.

Supporting Documentation

You must include a letter from your health care provider(s) or other pertinent sources. The documentation should be on clinic letterhead and should address the following:

- Describe the diagnosed medical or psychological condition or circumstances, and indicate when treatment commenced.
- Explain how the severity of the condition completely prevents the student from attending classes and completing the semester.
- · Address potential health/clinical consequences if a medical withdrawal is not granted.

Review Process

1. Submit all materials to the Office of the Registrar. Any missing or incomplete information may delay consideration of your request.

- 2. After the materials are received, your request will be evaluated by the Office of the Registrar and you will be notified when it has been approved or denied. You may be asked to provide additional information to assist the university in its evaluation of your request. The decision of the Office of the Registrar is final.
- 3. Please note that a Medical Withdrawal is granted in rare instances where a student is faced with a serious and unexpected condition that completely precludes him/her from being able to function as a student. If a request is approved, the student may be required to submit documentation from a health care provider to indicate his/her ability to function successfully prior to subsequent enrollment. Additional requests for a medical withdrawal are normally not granted for the same circumstances.
- 4. Withdrawal appeals should be submitted to the Office of the Registrar prior to the close of the following long semester. Appeals submitted after one long semester will not be considered.

IMPORTANT NOTES:

- International students, students with a disability, and students who are receiving financial aid, veteran's and/or other benefits and who are considering withdrawing from the university must meet with the appropriate official (e.g., international student adviser, staff from Disability Services, financial aid counselor, or veteran's services) before withdrawing since there may be legal, certification, and/or repayment penalties associated with doing so.
- Medical withdrawal typically results in withdrawal from all classes. Students who are considering
 the medical withdrawal process and wish to drop some, but not all, of their classes for a term should
 instead contact the their academic associate dean's office for information about administrative
 drops.
- Student Loans: Students who have borrowed from the Perkins or Direct Loan programs are federally required to schedule an Exit Counseling session. Contact the Office of Financial Aid for additional information.
- All outstanding bills and university obligations must be paid/fulfilled. This includes any payment plans or loan agreements issued by Student Business Services. Contact Student Business Services for additional information.
- $\boldsymbol{\cdot}$ Medical with drawals do not provide for a refund of tuition and fees.

6-Drop Rule

In 2007, the Texas Legislature passed a law (S.B. 1231) which prohibits students enrolling for the first time as a freshman during the fall 2007 academic term or any term thereafter from dropping more than a total of six courses in their entire undergraduate career. This total includes any course a transfer student has dropped at another 2-year or 4-year Texas public college or university. This does not apply to courses dropped prior to the census date (See Academic Calendar at www.uhcl.edu/registrar) or to courses for which the students receives an administrative withdrawal noted with a grade of "WX" and does not apply if the student withdraws from the term or session.

Certain exceptions may be made to the limit if the student can show good cause for dropping more than 6 courses, including but not limited to a showing of:

- a severe illness or other debilitating condition that affects the student's ability to satisfactorily complete the course;
- the student's responsibility for the care of a sick, injured or needy person if the provision of that care affects the student's ability to satisfactorily complete the course;
- the death of a person who is considered to be a member of the student's family or who is otherwise considered to have a sufficiently close relationship to the student that the person's death is considered to be a showing of good cause;
- the active duty service as a member of the Texas National Guard or the armed forces of the United States of either the student or a person who is considered to be a member of the student's family or who is otherwise considered to have a sufficiently close relationship to the student that the person's active military service is considered to be a showing of good cause; and
- the change of the student's work schedule that is beyond the control of the student and that affects
 the student's ability to satisfactorily complete the course.
 Students requesting an exemption must complete the 6-Drop Exemption Form and submit it to the
 Office of the Registrar along with supporting documents and evidence of extenuating circumstances.
 The grade of "WX" will be assigned to courses for which students receive an exemption and will not
 count against the 6-drop rule.

Drops that Count towards the 6-Drop Limit

The 6 drop limit applies only to students enrolling for the first time as a freshman during the fall 2007 academic term or any term thereafter at a public college or university in Texas, including UHCL. Drops that count towards the limit are those for which a student receives a grade of WQ on his/her UHCL transcript as well as any equivalent drops reported on that student's transcript(s) from other Texas public colleges and universities. If a student started college fall 2007 or thereafter, and then transferred to UHCL from an affected Texas public college or university with six drops that are equivalent of WQ, the student may not drop any additional course at UHCL after the census date for the term. If the student transfers with fewer than six drops, the student may drop the remainder of the allowed courses at UHCL.

Awarding of Grades once the 6-Drop Limit has been Reached

Once UHCL determines that a student has accrued a total of 6 drops on courses attempted at any Texas public colleges and universities, including UHCL, it will not allow that student to drop any additional course at the University. Once enrolled for a course, the students with 6 drops can only be awarded A, B, C, D, or F grade by their instructor.

6-Drop Appeals Process

Any student who wants to appeal the initial decision to deny an exemption to the 6-drop limit may appeal to the Office of the Associate Vice President for Enrollment Management for further review. Such appeals must be submitted in writing before the final grades for the course are posted by the instructor.

Students appealing the initial decision can only do so for one of the following reasons:

- To determine whether the process leading to original decision was fair; and
- To determine whether the decision reached regarding the request was based on substantive evidence.

The decision of the Associate Vice President for Enrollment Management will be final.

Excessive Hours

Texas Education Code § 54.014 specifies that undergraduate students who enrolled for the first time in fall 1999 or later may be subject to a higher tuition rate if they attempt excess hours at any Texas public institution of higher education. This policy applies to students classified as Texas residents and Non-Texas residents, who have received a tuition waiver and pay resident tuition. Students who were first-time freshmen between fall 1999 and summer 2006 are limited to 45 semester credit hours in excess of the credit hours required to complete their degree plan. Students who were first-time freshmen beginning fall 2006 or subsequent terms are limited to 30 semester credit hours in excess of the credit hours required to complete their degree plan. If a student has been enrolled as an undergraduate student in any public or private institution of higher education during any term prior to the 1999 fall semester, the student's credit hours are exempt. Semester credit hours generated by non-resident students paying tuition at the rate provided for Texas residents are subject to the same limitations as hours generated by resident students. Students who are in violation of the limitations set by this law will be subject to the Tuition Recovery Fee of \$130 per credit hour to cover the student's educational costs. For more information contact the Office of the Registrar.

According to the Texas Higher Education Coordinating Board Rules, the following types of credit hours count toward the limit:

- Hours dropped after the 12th class day, reflected in transcripts with a WQ/WX.
- Hours earned with a failing grade of "F."
- Hours earned for courses that do not apply towards the chosen degree plan.
- · Hours successfully completed which do apply toward the chosen degree plan.

The following types of credit hours do not count toward the limit:

· Credit hours earned after completing a baccalaureate degree.

- · Credit hours earned through examination (AP or CLEP).
- · Credit hours earned through remedial and developmental courses.
- Credit hours taken at a private or an out-of-state institution.
- Credit hours earned before graduating from high school and used to satisfy high school graduation requirementsl
- · Credit hours excluded from the academic record under the Academic Fresh Start programl

Three-peat Rule for Undergraduates

In accordance with Texas Education Code Section 13.105 as of fall 2002 undergraduate, Texas-resident students and students paying resident tuition attempting the same course for a third (or subsequent) time will be subject to the Three-peat Fee for Undergraduate Hours.

"Attempted" hours are defined as all hours for which the student is enrolled as of the official Census date for the semester or session, regardless of whether the student withdraws from one or all classes after the Census date. Please see the Academic Calendar for the Census date for each semester and/or session.

The following courses may not be counted toward the Three-peat Rule for Undergraduates:

- Independent Study Courses
- · Special Topics Courses with Differing Content

Undergraduate Enrollment in Graduate Courses

Seniors who are degree-seeking students at UHCL and who wish to take graduate courses may qualify and enroll in them subject to these conditions:

- Students must be enrolled in their last six hours of undergraduate work.
- Students must have a cumulative UHCL GPA of at least 3.000.
- Approval of enrollment arrangement must be given by the associate dean of the college in which the student will pursue graduate course work.
- If the courses are used to fulfill undergraduate degree requirements, they may not be used to fulfill subsequent graduate degree requirements.

Undergraduate courses are defined as those courses with course numbers in the 1000, 2000, 3000 and 4000 range. Graduate courses taken as an undergraduate will only calculate in the undergraduate hours earned and in the undergraduate GPA. Post-baccalaureate non-degree-seeking students are not eligible to enroll in graduate courses. Doesn't apply to Dual Degree students.

Dual Degrees: Bachelor's to Master's

The dual Bachelor's/Master's programs allow students to earn both degrees in five years. Students begin work on their Master's degree during the final year of their Bachelor's degree.

- 1. Bachelor's (minimum 120 hours) to Master's (minimum 30 hours) degrees provides students the opportunity to earn degrees at an accelerated pace. In this program undergraduates with 90 or more credit hours may be allowed to enroll in graduate classes and count up to 6 graduate credit hours toward their Bachelor's degree. The same 6 graduate credit hours may also count towards a Master's degree.
- 2. Graduate courses utilized for a Bachelor's degree cannot be utilized for a graduate degree outside of the accelerated Bachelor's to Master's degree program.
- 3. No more than 6 graduate hours can be taken as an undergraduate.
- 4. In the dual degree program no more than 6 hours of graduate work may be counted toward the requirements of both degrees and at least 24 of the required 30 graduate hours must be taken at the 5000 level or 6000 level.
- 5. Students must apply to the dual degree program the semester before completing their Bachelor's degree requirements.
- 6. Students interested in this program must meet with a dual degree adviser in their college before enrolling in graduate courses.
- 7. Students admitted to dual degree programs should have an overall GPA of 3.0 or better. Students with a GPA of less than 3.0 must take the GRE or GMAT. (See individual college requirements for appropriate examination and for acceptable scores.)
- 8. A student who becomes ineligible to participate in or withdraws from the accelerated Bachelor's to Master's program cannot double count any courses for both Bachelor's and Master's degrees. However, courses successfully completed with a 3.0 or better may count toward the Bachelor's degree as appropriate substitutions.
- 9. Students in dual degree programs receive the Bachelor's degree upon completion of the master's degree.
- 10. Students in dual degree programs not completing the Master's degree may apply for graduation with the bachelor's degree
- 11. Dual degree program students must complete the undergraduate residency requirements.

Final Exams

Final exams for the regular fall and spring terms must be scheduled the week following the last day of classes at the day/time indicated on the final exam schedule. Faculty teaching online courses during the regular fall and spring terms can schedule final exams anytime starting on the last day of classes until the end of the week following the last day of classes (the end of the regular exam week). During the

summer sessions and fall/spring 8 week sessions, final exams are held on the last day of classes. Students and faculty should refer to the academic calendar and final exam schedule found online at www.uhcl.edu/registrar for additional information. Students with exam schedule conflicts must work with faculty to resolve conflicts.

Missed Examinations and Assignments

Students are expected to be present at all announced examinations, including final examinations. Unless satisfactory alternate arrangements are made with instructors, missed examinations will be considered as failed. Students who must be absent from classes for the observance of a religious holy day (as defined by the Texas Education Code) will be allowed to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence. Students needing to reschedule an examination or assignment for a holy day should submit a letter of request or appropriate form to each instructor within 15 days from the first class day of the semester. An instructor should acknowledge receipt where indicated on the form and return a copy to the student. A new date for taking an examination or completing an assignment missed for a holy day shall be set by the instructor. Should an instructor not honor the request for rescheduling examinations or assignments for holy days by setting reasonable new due dates, students may appeal the decision to their associate dean. The instructor or associate dean may require a letter of verification of the observed holy day from the religious institution.

Grading Policies

Descriptions of Letter Grades

- Performance in the range of "A" represents exceptional scholarship and intellectual initiative in accomplishing undergraduate level course goals and objectives.
- Performance in the range of "B" represents competent achievement in accomplishing undergraduate level course goals and objectives.
- Performance in the range of "C" represents the minimally acceptable performance in accomplishing undergraduate level course goals and objectives.
- A "D" or "F" performance represents unsatisfactory or below minimally acceptable performance in accomplishing undergraduate level course goals and objectives.
- Grades of "+" or "-" are refinements of the letter grades, represent grade point variations and may be used at the discretion of the instructor.

Grading System

Grade Points Per Semester Hour	Grade
4.000	A
3.667	A-

Grade Points Per Semester Hour	Grade
3.333	B+
3.000	В
2.667	В-
2.333	C+
2.000	С
1667	C-
1333	D+
1000	D
0.667	D-
0.000	F

WQ* Student Initiated Drop, No Evaluation

WX* Withdrawal or Administrative Drop, No Evaluation

NG* No Grade Submitted, Contact Instructor

I* Incomplete-No Credit, unless work is not completed on time, then an F is given

CR*+ Credit

NC*+ No Credit

IP*++ In Progress-No Credit

- *These grades are not included in computing the grade point average
- +CR/NC awarded only for CLEP, master's option and TexES course work
- ++IP awarded for some undergraduate internships

Grade Point Average (GPA)

The grade point average is a measure of a student's academic achievement. Grade point averages are computed by multiplying the grade point earned by the number of credit hours in each course, and then dividing the sum of all grade points obtained by the total number of hours attempted.

The cumulative grade point average is based on the grade points earned since admission to UHCL excluding those hours for which grades are shown with asterisk (*) above. GPAs will round at three decimals. Grades earned for transferred courses are not calculated into grade point average at UHCL.

Incomplete Grade and Incomplete Grade Contract

A grade of Incomplete ("I") may be given at the discretion of the instructor to students who are making satisfactory progress in a course. Incompletes are typically given for emergency situations which occur after the withdrawal date but prior to the end of the semester, and which prevent the student from completing course requirements. When assigning the grade of "I," instructors provide students with an Incomplete Grade Contract that outlines the work to be accomplished before the "I" can be converted to

a final grade and specifies a deadline date. This contract constitutes an agreement between instructors and students. A grade of "I" must be resolved within the time limit set by instructors; however, such limits may not be extended beyond the grade submission deadline for the next long semester following the semester in which the "I" was assigned. Failure to resolve an "I" will result in its conversion to a final grade of "F" on students' permanent records. An "I" can be converted to a final grade only. A statement denoting the lapse will appear on the transcript.

Students should not re-register for a course to complete a grade of "I." Incomplete grade contracts are submitted to the appropriate associate dean's office.

Students on academic probation, who have outstanding "I" grades, will remain on probation until all incompletes are resolved. "I" grades are not calculated in the GPA. An "I" which has been changed to a grade or has been converted to an "F" will be recorded and academic action taken during the semester of the grade change.

In Progress Grade

Some undergraduate internships require a grade of In Progress until a final grade is earned. The "IP" grade will not automatically convert to "F" if not resolved within a specified time.

Grade Changes

Grade changes are allowed for only one of the following three reasons:

- · Removal of an incomplete grade.
- · Result of a formal grade appeal or hearing process.
- · Correction of instructor error.
- Other than removing an incomplete, grades will not be changed on the basis of extra work submitted after final grades are assigned.

Only the course instructor may assign grades for students in a course. Grade changes may be made by the instructor or the associate dean in the absence of the instructor. After one long semester, a grade change submitted by an instructor must be approved by the associate dean for the program in which the course is taught. Grade changes must be filed in the Office of the Registrar within one year after the original grade is posted. Grade changes resulting from the completion of In Progress ("IP") or Incomplete ("I") work may only be initiated by the instructor of record or the associate dean. Academic action that results from a grade change will be taken during the semester of the grade change. The changed grade will be the final grade used to compute the GPA.

Repeated Courses

As of fall 2008, if students repeat a course, it is with the understanding that the last grade earned in the course is the one counted toward fulfillment of degree requirements and hours earned. Only the hours

and grade points earned on the last attempt will be counted in the Grade Point Average (GPA) calculation and in determining academic standing. Any repeated courses where the final attempt was made prior to fall 2008 will be counted in the GPA calculation and in determining academic standing. With prior approval of the appropriate associate dean, students may repeat courses at another college or university to raise a grade, including "F," earned at UHCL. However, the original grade earned at UHCL will remain a part of the academic record. Courses repeated at other institutions are treated as transfer credit. They will not be considered resident credit and will not be included in the UHCL GPA. Only grades earned on repeated courses taken at UHCL will be counted in the UHCL GPA.

Grade Reports

Students can access their semester grades online at www.uhcl.edu/eservices. The student's password is required for this confidential access. Grades can also be obtained by requesting a transcript. Grade reports are not mailed.

Interim Grade Reports

To help undergraduate students monitor their academic performance, faculty members teaching 1000 and 2000 level courses will provide six-week progress grades for students with unsatisfactory performance. Six-week progress grades are provided in fall and spring semesters only. Interim grades are advisery grades and are not recorded on the student's permanent record.

Procedures for Entering Interim Grades

Faculty will report grades of "D" or "F" through E-Services. Interim grade rosters for 1000 and 2000 level courses will be available starting the Monday of the sixth week of class through Tuesday of the seventh week of class. The Office of the Registrar will notify faculty of the availability of interim grade rosters and the reporting deadlines each spring and fall semester. Students will be able to view interim grades in E-Services once the faculty deadline to enter grades has passed. Interim grade reports will be provided to academic advisers who will contact students experiencing difficulties.

Academic Appeals

Academic appeals include those appeals related to grades and academic programs or degree requirements. In all instances, the university expects that every attempt will be made initially to resolve such disputes informally through discussions by all relevant parties prior to initiating formal procedures.

Appeals of Academic Program or Degree Requirements

All appeals relating to specific program requirements (e.g., residency requirements, master's degree option decisions) require that students submit a written petition to the associate dean of the degree-granting college detailing the grounds for the appeal. The associate dean will respond in writing with

a decision. The student may appeal this decision in writing to the dean within 15 working days of notification. The dean's decision is final.

Grade Appeals

All appeals relating to specific course grades require that students first seek a satisfactory solution with the instructor. If this is not possible or the instructor cannot be reached, the student must send a written statement detailing the grounds for the appeal to the associate dean of the college in which the grade was earned. This written request must be received by the associate dean within 45 days from the calendar date when grades are available as reported in the UHCL class schedule for that semester. The associate dean will then initiate the appropriate procedures to review the appeal. The student will be notified in writing of the decision. The student may appeal this decision in writing to the dean within 15 working days of notification. The dean's decision is final on all grade appeals.

Academic Standards

The university expects students to meet certain standards of academic performance in order to maintain good standing and degree candidacy. The academic performance standards stated in this catalog apply to all students regardless of the catalog under which they entered the university.

Academic Status

Undergraduate students must maintain a cumulative GPA of 2.000 or better in course work at UHCL. Each college may establish standards beyond the university's minimum cumulative GPA requirement. A minimum of 2.000 cumulative GPA is required to graduate. The last attempt of all course work taken as an undergraduate will be used in calculating the grade point average and determining academic status even when those courses are not counted toward degree requirements.

Mandatory Academic Advising Policy

In an effort to promote and foster an environment of academic success, beginning fall 2014, UHCL has implemented a Mandatory Advising Program (MAP) for freshman and sophmore students.

This policy also applies to students who entered with advanced standing (college credit earned before high school graduation).

MAP elements:

- · Students will have an advising hold preventing class registration after admission to UHCL.
- · Students are assigned a University Academic Advising Center (UAAC) adviser.
- Freshmen, including those admitted with advanced standing, are required to meet with their adviser during SOAR (Student Orientation and Registration).

- Sophomores are required to schedule an appointment with their adviser prior to NSO (New Student Orientation).
- Students are also required to meet with their adviser at least three times per semester until they have reached junior standing.
- Advising holds will continue to prevent students from registering for the next semester until course selections are discussed with their adviser.
- Once junior standing is reached, advising requirements are transitioned to the student's academic college for their major.

Mandatory Transfer Advising Policy

In an effort to promote a seamless transition to UHCL, all incoming junior and senior students are obligated to follow our Transfer Advising Program (TAP).

TAP elements:

- Students will have an advising hold preventing class registration after admission to UHCL.
- Students are required to schedule an appointment and meet with an adviser in the Transfer Advising Office.
- Upon completion of the visit, the advising hold is removed and students are able to register for classes for their first semester at UHCL.
- After the session through TAP, advising requirements are transitioned to the student's academic college for their major.

Academic Probation

Students whose cumulative GPA falls below 2.000 will be placed on academic probation. Students who are on academic probation must earn a minimum 2.000 semester GPA on course work each subsequent semester until the grade point deficiency is removed. Students will be removed from Academic Probation when their semester grade point average is 2.000 or higher and their cumulative grade point average is at or above 2.000. Only course work taken at UHCL will be applied toward the grade point deficiency. Students on academic probation, whose cumulative GPA meets minimum requirements, will remain on probation until all incompletes are resolved. Students who leave the university on academic probation will be readmitted on academic probation. Academic probation will be noted permanently on students' academic records.

Academic Probation Counseling

Undergraduate students placed on academic probation will be placed under mandatory academic counseling until such time that the student returns to good academic standing (cumulative GPA of 2.0). The academic probation counseling program is a comprehensive program that requires the student to meet with the Student Success Center to evaluate the academic support needs of the individual. The

Student Success Center, in collaboration with the student's academic adviser, will assist the student in developing an academic plan that guides the student's return to good academic standing.

Academic Suspension

Students who are on academic probation and earn less than a minimum 2.000 semester GPA will be suspended from the university. During academic suspension, students may not enroll, audit or visit classes at the university. Academic suspension will be noted permanently on students' academic records.

Reinstatement

Students who are suspended from the university for the first time may apply for reinstatement after one semester of non-enrollment. Students on suspension for the second time are eligible to apply for reinstatement after one year of non-enrollment. Students who have been suspended three times are suspended indefinitely. All academic suspensions are career specific (UGRD and GRAD). The suspension count is reset to zero for undergraduate students who pursue a UHCL graduate degree. Reinstatement following suspension is not automatic. Students who are eligible and seek reinstatement must submit to the associate dean of the college to which they wish to return a written petition justifying their readiness to resume satisfactory academic work at the university. Students who are non-degree-seeking [major codes NONDEGRUG or NONDEGRPB] petition the Office of the Provost. At the time of application for reinstatement from academic suspension, students desiring to change their major from one college to another must submit a Request for Academic Record Change (ARC) form along with a petition for reinstatement to the associate dean of the college to which they wish to be admitted. Courses taken at another college or university while students are on suspension from UHCL may not fulfill UHCL upper-level degree requirements. Such courses may only be used with special permission from the associate dean. If a student has completed additional lower-level requirements during the suspension, it is advisable to include a transcript with the petition, in addition to having an official transcript sent to the Office of Admissions. Students petitioning for reinstatement over five years after their last term of attendance at UHCL must also resubmit official transcripts from universities and colleges previously attended. Records from previous institutions are destroyed after five years of academic inactivity.

Students who have not been enrolled for at least one year must file an admissions application with the Office of Admissions and meet the requirements for readmission of former students after reinstatement has been granted.

If students are allowed to enter the university after academic suspension, they enter on academic probation and will remain in that status until their cumulative GPA meets the minimum requirement of 2.000 for undergraduate students. A student who is reinstated must undergo mandatory advising and a registration hold will be placed on his/her record until such time that he/she returns to academic good standing. Disciplinary suspensions are not covered by this policy. For details of the UHCL disciplinary policy, see the Student Life Policy Handbook.

Early Reinstatment from Suspension

An undergraduate student who feels that one had extenuating circumstances beyond one's control which affected their academic performance, may make a request for consideration for early reinstatement to the Associate Vice President for Academic Affairs. An early reinstatement request will be accepted and reviewed only if the student has followed the academic recovery plan developed in conjunction with the Student Success Center and the student's academic adviser while under mandatory academic probation counseling.

A written petition should address the circumstances that led to the student's academic difficulties, how the circumstances have changed and what additional steps the student intends to take to improve one's academic performance if one is readmitted. Attached to the request should be a copy of transcripts showing the student's academic history at other institutions that the student might have attended while under suspension. The student must also provide documentation that substantiates the extenuating circumstances referenced in the petition.

Early reinstatement is not automatic. The gravity of the circumstance and the student's academic history will be considered in making a determination on whether the petition should be granted.

Early reinstatement is granted only once during the student's undergraduate career. A student who, subsequent to one's early reinstatement is placed on academic suspension will have to follow the regular reinstatement policy and procedure applicable for their situation.

Early reinstatement decisions made by the Associate Vice President for Academic Affairs are final.

Dean's List

At the end of each semester, all undergraduate students who earn nine or more credit hours during a fall or spring semester (or six or more credit hours during a summer semester) will be considered for the Dean's List. To be named to the Dean's List, students must be in the top 10 percent of eligible students in their colleges, based on semester GPA. Students who receive any form of the grades of "I," "D," "NG," "NC," or "F" during the semester are not eligible for the Dean's List.

Academic Honesty Policy

Preamble and Code

Academic honesty is the cornerstone of the academic integrity of the university. It is the foundation upon which the student builds personal integrity and establishes a standard of personal behavior. The university can best function and accomplish its mission in an tmosphere of the highest ethical standards. The university expects and encourages all students to contribute to such an atmosphere by observing all accepted principles of academic honesty. This policy is designed to encourage honest behavior and is jointly administered by faculty and students.

HONESTY CODE: The Honesty Code is the university community's standard of honesty and is endorsed by all members of the University of Houston-Clear Lake academic community. It is an essential element of the university's academic credibility. It states:

I will be honest in all my academic activities and will not tolerate dishonesty.

Section I: Responsibilities

Joint Responsibility: Students and members of the faculty are jointly responsible for maintaining the academic integrity of the university by following the Academic Honesty Code and by refusing to participate in or tolerate scholastic dishonesty.

Student Responsibility: All students at the University of Houston–Clear Lake are expected to maintain complete honesty and integrity in all academic work attempted while enrolled at the university. This standard of conduct includes reporting incidents of alleged violation of the honesty policy to the instructor involved or, if necessary, to the appropriate academic dean. Each student acknowledges, by the mere act of turning in work for a grade that he or she has honored the Academic Honesty Code.

Faculty Responsibility: Faculty are responsible for helping students comply with the Academic Honesty Policy by noting the Honest Code on the class syllabus. Instructors should help minimize student temptation to violate the code by enacting adequate security precautions in the preparation, handling and administering of graded work. Instructors are responsible for discussing incidents of alleged violation of the Honesty Code with the student involved, outlining authorized penalties for violation of the Honesty Code and notifying the student's academic dean of record and the Dean of Students when a determination has been made that a student has violated the Honesty Code, regardless of which type of academic sanction the instructor chooses to administer.

While all students are expected to maintain the highest standards of personal academic honesty, it is recognized that some students may not meet these standards. This policy is designated to address, in a uniform manner, cases of alleged violation of the Honesty Code.

Section II: Violations

Honesty Code Violations: Any conduct or activity by a student intended to earn or improve a grade or receive any form of credit by fraudulent or dishonest means is considered an Honesty Code violation. In addition, engaging in any conduct including the following examples which a reasonable person in the same or similar circumstances would recognize as academic dishonesty is considered a violation. Examples of violations of the Honesty Code include, but are not limited to, the following:

1. Acquiring information:

a. Acquiring information for any assigned work or examination from any source not authorized by the professor.

- b. Working with another person or persons on any assignment or examination when not specifically permitted by the instructor.
- c. Observing the work of other students during any examination.
- d. Using, buying, selling, stealing, soliciting, copying or possessing, in whole or part, the contents of an unadministered examination.
- e. Purchasing, or otherwise acquiring and submitting as one's own work, any research paper or other writing assignment prepared by others.

2. Providing information:

- a. Providing answers for any assigned work or examination when not specifically authorized by the instructor to do so.
- b. Informing any person or persons of the contents of any examination prior to the time the examination is given.

3. Plagiarism:

- a. Incorporating the work or idea of another person into one's own work without acknowledging the source of that work or idea.
- b. Attempting to receive credit for work performed by another person, including papers obtained in whole or part from individuals or other sources.
- c. Copying copyrighted computer programs or data files belonging to someone else.
- d. Conspiracy agreeing with one or more persons to commit any act of academic dishonesty.

4. Fabrication of information:

- a. Falsifying the results obtained from a research or laboratory experiment.
- b. Presenting results of research or laboratory experiments without the research or laboratory experiments having been performed.
- c. Substituting for another student to take an examination or to do any academic work for which academic credit will be received. Changing answers or grades after an academic work has been returned to the student and claiming instructor error.
- d. Submitting work for credit or taking an examination and employing a technique specifically prohibited by the instructor in that course, even if such techniques would be acceptable in other courses.

5. Abuse of resource materials:

- a. Mutilating, destroying, concealing, stealing or altering any materials provided to assist students in the completion of academic work, including library books, journals, computer files, microfilm and microfiche files, materials placed on reserve by the instructor or any such materials as the instructor may provide or assign.
- b. Copying any data files or copyrighted computer program(s) for one's own personal use or the use of others.
- c. Copying without permission of the owner, or mutilating or destroying any copyrighted media, printed or electronic (for example, film, video, music, graphics, art, photography or manuscript).

d. Failure to report – failing to report to the instructor any incident in which a student witnesses an alleged violation of the Academic Honesty Code. Details regarding the Academic Honesty Enforcement Procedures, Resolutions, Sanctions and Academic Honesty Council can be found in Student Life Policies in hard copy and on–line at the UHCL website and in the Faculty Handbook on–line at the UHCL website. Further policies governing alteration or misuse of university documents or furnishing false information to university officials may also be found in Student Life Policies or online at the UHCL website.

Records

The dean of students shall retain a copy of all Honesty Code Violation Forms. If the sanction imposed is a final grade penalty, suspension or expulsion, the registrar's office is notified and a record of the notification is maintained in the registrar's office according to the prescribed operating procedures of that office. If the student is found in violation of the Honesty Code and the penalty is anything except suspension or expulsion, the form does not become a part of the student's permanent record or transcript. Instead, it is retained by the dean of students. If the student is found in violation of the Honesty Code and the penalty is suspension or expulsion, the record becomes part of the student's permanent academic file and the notation of "Disciplinary Suspension" or "Disciplinary Expulsion" is placed on the transcript. In the case of suspension, the notation will be removed at the conclusion of the specific suspension period at the written request of the student. In the case of expulsion, the entry is noted permanently.

University Degree Requirements

University undergraduate degree requirements include Lower-Level, Core Curriculum and Upper-Level requirements.

Undergraduate Degree Requirements for Bachelor of Applied Science Degree

All candidates for a bachelor of applied science degree at the University of Houston–Clear Lake (UHCL) must meet certain minimum requirements. Additional requirements may be imposed by the individual department or college. Students should refer to the department or college section of this catalog for complete requirements and total number of hours prescribed for the specific major.

The following are the minimum requirements for a bachelor of applied science degree:

- 1. Students must complete at least 120 semester credit hours. A minimum of 45 hours of the 120 semester hours must be advanced (3000-4000 level) course work according to the requirements of the respective major.
- 2. Students must complete the University Core Curriculum requirements (refer to Core Curriculum Requirements section of this catalog).

- 3. Students must fulfill the statutory requirements of the Texas State Education Code, including the following:
 - a. Six hours of U.S. History (three hours may be Texas History).
 - b. Six hours of Constitutions of the United States and Texas.
- 4. Students must complete at least 25% of the credit hours required for the degree (i.e., 30 semester credit hours for a 120 credit hour program) through instruction offered by UHCL to fulfill the Southern Association of Colleges and Schools (SACS) residency requirements.
- 5. Students must complete the final 30 semester hours of 3000 and 4000 level course work in residence at UHCL.
- 6. Students must complete a minimum of 12 semester credit hours of upper-level (3000-4000 level) coursework in the major in residence at UHCL.
 - Students must have a cumulative GPA of 2.000 on course work completed at UHCL with grades of "C" or better on at least 30 hours of resident upper-level work. Grades of "C-" or below cannot be applied toward the 30 hours of resident upper-level work.

Undergraduate Degree Requirements for Bachelor of Science in Nursing

Undergraduate degree requirements for BSN Addendum

All candidates for a Bachelor of Science in Nursing degree at the University of Houston—Clear Lake (UHCL) must meet certain minimum requirements. Students should refer to the department or college section of this catalog for complete requirements and total number of hours prescribed for the specific degree.

The following are the minimum requirements for a BSN degree:

- 1. Student must complete an Associate's Degree in Nursing or equivalent degree. Some of the credits earned as part of the ADN will be applied toward the 120 semester credit hour requirement for the BSN degree.
- 2. Students must complete the University Core Curriculum requirements (refer to Core Curriculum Requirements section of this catalog).
- 3. Students must fulfill the statutory requirements of the Texas State Education Code, including the following:
 - a. Six hours of U.S. History (three hours may be Texas History).
 - b. Six hours of Constitutions of the United States and Texas.
- 4. A minimum of 45 hours, including 30 upper-level hours in nursing, must be taken in residence.
- 5. Students must have a cumulative GPA of 2.000 on course work completed at UHCL with grades of "C" or better on at least 30 hours of resident upper-level work. Grades of "C-" or below cannot be applied toward the 30 hours of resident upper-level work.

Undergraduate Degree Requirements for Bachelor of Art, Bachelor of Fine Arts, Bachelor of Science and Bachelor of Social Work Degrees

All candidates for a bachelor's degree at the University of Houston—Clear Lake (UHCL) must meet certain minimum requirements. Additional requirements may be imposed by the individual department or college. Students should refer to the department or college section of this catalog for complete requirements and total number of hours prescribed for the specific major.

The following are the minimum requirements for a bachelor's degree:

- 1. Students must complete at least 120 semester credit hours. A minimum of 45 hours of the 120 semester hours must be advanced (3000–4000 level) course work according to the requirements of the respective major.
- 2. Students must complete the University Core Curriculum requirements (refer to Core Curriculum Requirements section of this catalog).
- 3. Students must fulfill the statutory requirements of the Texas State Education Code, including the following:
 - a. Six hours of U.S. History (three hours may be Texas History).
 - b. Six hours of Constitutions of the United States and Texas.
- 4. Students must demonstrate writing proficiency by completing nine hours of lower-level (1000-2000 level) and upper-level (3000-4000 level) English composition course credit with a minimum grade of "C-" or better. Some majors may require higher grades in English composition.
- 5. Students must complete at least 25% of the credit hours required for the degree (i.e., 30 semester credit hours for a 120 credit hour program) through instruction offered by UHCL to fulfill the Southern Association of Colleges and Schools (SACS) residency requirements.
- 6. Students must complete the final 30 semester hours of 3000 and 4000 level course work in residence at UHCL.
- 7. Students must complete a minimum of 12 semester credit hours of upper-level (3000-4000 level) coursework in the major in residence at UHCL.
- 8. Students must have a cumulative GPA of 2.000 on course work completed at UHCL with grades of "C" or better on at least 30 hours of resident upper-level work. Grades of "C-" or below cannot be applied toward the 30 hours of resident upper-level work.

Requirements for a Minor

Students may earn a minor by satisfying certain requirements.

The general requirements are as follows:

- 1. Students must complete a minimum of 15 semester hours in the minor field.
- 2. At least nine of the 15 semester hours must be 3000 level or higher.
- 3. At least six of the nine 3000 or higher semester hours must be taken in residence at UHCL.

4. Students must earn a 2.00 minimum cumulative grade point average on courses attempted in the minor at the University of Houston-Clear Lake.

Minors may include additional requirements but will require no less than 15 semester hours of work in the minor field of study. The 15-hour limit excludes prerequisite courses.

Minors must be completed prior to graduation. Minor hours do not need to be completed within a student's primary program of study (typically 120 hours). Minor hours do not alter excess hour fee requirements.

Minors may be associated with a disciplinary program or may be interdisciplinary. Interdisciplinary minors will comprise a planned integration of two or more disciplines with program and college approval.

Not all programs offer minors, but those that do will provide academic advice for the students who seek minors in their areas.

Substitutions in a minor can be initiated by either the major – or minor-granting department, but must be approved by both departments.

Students should consult the requirements listed in the catalog.

A minor is displayed on the transcript after graduation but is not displayed on the diploma.

Time Limitation on Course Work Prior to Admission

Upper-level (3000-4000 level) credit earned more than seven years prior to the most current admission to undergraduate study at UHCL may not be counted unless approval is granted by the dean of the college. It is the prerogative of the dean to determine whether the courses meet current standards of the discipline; and, whether students can demonstrate sufficient retention of the previous content.

Additional Bachelor's Degrees

Students possessing a bachelor's degree from UHCL or another accredited institution may earn an additional bachelor's degree in a different major by satisfying the following:

- Fulfillment of UHCL's core curriculum requirements as previously noted. These requirements may be fulfilled through prior course work and/or additional current course work, advanced placement credit, correspondence credit or CLEP credit.
- · Completion of an approved CPS subject to the following provisions:
 - Fulfillment of all requirements of the specific degree program
 - Completion of a minimum of 30 hours of upper-level course work which must be taken in residence

• A cumulative GPA of 2.000 on course work completed at UHCL and grades of "C" or better on at least 30 hours of resident upper-level course work. Grades of "C-" or below cannot be applied toward the 30 hours of resident upper-level work.

Students pursuing additional bachelor's degrees will be classified as post-baccalaureate and considered as undergraduates for all purposes including standards for academic performance. Credits earned and applied toward any degree previously earned may not be applied toward an additional bachelor's degree. Students pursuing two or more degrees simultaneously may not apply the same credit to more than one degree.

Double Majors

Students may earn a baccalaureate degree with two majors (i.e., a double major) provided they meet all the following requirements:

- The baccalaureate degree must be the same for both majors (e.g., BA, BS) and both majors must be in the same college.
- Students must satisfy the college and major degree requirements for their primary major that were in effect at the time they were admitted into the primary major and those for their second major in effect at the time they were admitted into the second major.
- Students may not add a second major to a baccalaureate degree they have already received.
- Students may use no more than six semester hours of major field course work required by the first major to satisfy major field degree requirements in the second major.
- Students must meet minimum grade requirements required by the college for each major.
- Students must complete a minimum of 12 semester hours of advanced work in residence in each major. Students pursuing a double major who complete all degree requirements for one major but not the other may graduate with a single major only after they obtain approval from the dean of the college.

The University of Houston-Clear Lake does not recognize any number of majors above two for a single baccalaureate degree. Students who want official university recognition for more than a double major must earn more than one baccalaureate degree.

Curriculum Requirements

Core Curriculum Requirements

Through the Texas Core Curriculum, students will gain a foundation of knowledge of human cultures and the physical and natural world; develop principles of personal and social responsibility for living in a diverse world; and, advance intellectual and practical skills that are essential for all learning (THECB, 2013). The core curriculum at University of Houston-Clear Lake contains 42 semester credit hours,

encompassing nine component areas. Each component area has a minimum credit hour requirement and a set of specific courses that may be used to satisfy the requirement. The chart below details the courses that comprise UHCL's core curriculum and its Texas common course number (TCCN) equivalents.

UHCL Course Number	Course Title	TCCN		
Communications (6 hours)				
WRIT 1301	English Composition I	ENGL 1301		
WRIT 1302	English Composition II	ENGL 1302		
Mathematics (3 hours)				
MATH 1314	College Algebra	MATH 1314		
MATH 1324	Finite Math	MATH 1324		
MATH 1325	Business Calculus	MATH 1325		
MATH 1332	Math for Liberal Arts	MATH 1332		
MATH 1342	Elementary Statistics Methods	MATH 1342		
MATH 1350	Fundamentals of Mathematics	MATH 1350		
MATH 2412	Pre-calculus	MATH 2412		
MATH 2413	Calculus I	MATH 2413		
Life and Physical Sciences (6 hours)				
ASTR 1303	Stars and Galaxies	ASTR 1303		
ASTR 1304	Solar Systems	ASTR 1304		
BIOL 1306	Biology for Science Majors I	BIOL 1306		
BIOL 1307	Biology for Science Majors II	BIOL 1307		
BIOL 1308	Biology for Non-Science Majors	BIOL 1308		
BIOL 1309	Biology for Non-Science Majors	BIOL 1308		
BIOL 2301	Anatomy & Physiology I	BIOL 2301		
BIOL 2302	Anatomy & Physiology II	BIOL 2302		
CHEM 1305	Intro to Chemistry I	CHEM 1305		
CHEM 1311	General Chemistry I	CHEM 1311		
CHEM 1312	General Chemistry II	CHEM 1312		
ENSC 1301	Environmental Science I	ENVR 1301		
ENSC 1302	Environmental Science II	ENVR 1302		
GEOL 1303	Physical Geology	GEOL 1303		
GEOL 1304	Historical Geology	GEOL 1304		
PHYS 1301	College Physics I	PHYS 1301		

UHCL Course Number	Course Title	TCCN		
PHYS 1302	College Physics II	PHYS 1302		
PHYS 2325	University Physics I	PHYS 2325		
PHYS 2326	University Physics II	PHYS 2326		
Language Philosophy and Culture (3 hours)				
HUMN 1301	Humanities	HUMA 1301		
LITR 2341	Literature and Experience	ENGL 2341		
PHIL 1301	Into to Philosophy	PHIL 1301		
WGST 1301	Gender Matters			
Creative Arts (3 Hours)				
ARTS 1303	World Art Survey I	ARTS 1303		
ARTS 1304	World Art Survey II	ARTS 1304		
ARTS 2379	Arts and the Child			
U.S. History (6 hours)				
HIST 1301	US History I	HIST 1301		
HIST 1302	US History II	HIST 1302		
Government/ Political Science (6 hours)				
POLS 2305	Federal Government	GOVT 2305		
POLS 2306	Texas Government	GOVT 2306		
Social Behavioral Science (3 hours)				
ANTH 2346	General Anthropology	ANTH 2346		
ECON 2301	Principles of Macroeconomics	ECON 2301		
ECON 2302	Principles of Microeconomics	ECON 2302		
CRIM 1301	Intro to Criminal Justice	CRIJ 1301		
GEOG 1303	World Regional Geography	GEOG 1303		
PSYC 2301	Intro to Psychology	PSYC 2301		
SOCI 1301	Intro to Sociology	SOCI 1301		
SWRK 2361	Intro to Social Work	SWRK 2361		
Component Area Option (6 hours)				
ASTR 1103	Lab for Stars and Galaxies	ASTR 1103		
ASTR 1104	Lab for Solar Systems	ASTR 1104		
BIOL 1106	Lab for Biology I	BIOL 1106		

UHCL Course Number	Course Title	TCCN
BIOL 1107	Lab for Biology II	BIOL 1107
BIOL 1108	Lab for Biology Non-Sci Maj. I	BIOL 1108
BIOL 1109	Lab for Biology Non-Sci Maj. II	BIOL 1109
BIOL 2101	Lab for Anatomy & Physiology I	BIOL 2101
BIOL 2102	Lab for Anatomy & Physiology II	BIOL 2102
CHEM 1105	Lab for Intro Chemistry I	CHEM 1105
CHEM 1111	Lab for General Chemistry I	CHEM 1111
CHEM 1112	Lab for General Chemistry II	CHEM 1112
COMM 1315	Public Speaking	SPCH 1315
EDUC 1100	Learning Framework	EDUC 1100
ENSC 1101	Lab for Environmental Science I	ENVR 1101
ENSC 1102	Lab for Environmental Science II	ENVR 1102
GEOL 1103	Lab for Physical Geology	GEOL 1103
GEOL 1104	Lab for Historical Geology	GEOL 1104
PHYS 1101	Lab for College Physics I	PHYS 1101
PHYS 1102	Lab for College Physics II	PHYS 1102
PHYS 2125	Lab for University Physics I	PHYS 2125
PHYS 2126	Lab for University Physics II	PHYS 2126
PSYC 1100	Learning Framework	PSYC 1100
PSYC 1300	Learning Framework: 1st Yr Seminar	PSYC 1300

Two 1 hour Natural Science Labs (Note: Labs are the co-requisites to the Life and Physical Sciences listed.)

Freshman and Sophomore Students Taking Upper Level Courses

Students with less than 48 hours of college credit at the 1000/2000 level cannot enroll in 3000/4000 level courses.

English Composition I and II Requirement

All students who enter the University are required to complete WRIT 1301- English Composition I and WRIT 1302- English Composition II or their equivalents within the first 30 hours of their degree program.

Non-Course Based Options

UHCL offers non-course based options (NCBO) for students who do not pass one or more areas of the TSI Assessment and are required to take NCBO per the TSI guidelines. Students placed in NCBO will also be placed in the entry-level college course for the subject area(s) needing improvement based on the

TSI Assessment results. Participation in the NCBO and the companion college level course is mandatory during the first semester of enrollment. The NCBO are non-credit courses and are offered free of cost to students.

Graduation under a Particular Catalog

Degree-seeking students should file Candidate Plan of Study (CPS), normally in the first semester of enrollment. Graduation requirements will be those of the UHCL Catalog in effect when the CPS is signed and dated by the appropriate dean's office and will be effective on that date.

Students transferring within a year directly to UHCL from a Texas public community college may petition the college's associate dean to have the initial CPS use the degree requirements of the catalog in effective when the students began the last period of continuous enrollment at the community college or a subsequent catalog. The effective date of the CPS will be either the date the students began the last period of continuous enrollment at a college prior to transferring to UHCL or January 1 of the academic year of the catalog used.

If students maintain continuous enrollment, they are entitled to graduate under the degree provisions on the CPS. Failure to enroll in and satisfactorily complete at least one course in a 12-month period shall break students' continuous enrollment for the purpose of the CPS. The associate dean may require revision of the CPS of students who have not maintained continuous enrollment. The revision may bring the plan into conformance with provisions of any catalog issued after the effective date of the plan. Students may, with the approval of their adviser and associate dean, amend their CPS to comply with the provisions of catalogs issued after the effective date of a previously filed CPS. When degree requirements change because of changes in standards set by regulatory authorities, licensing authorities or accrediting agencies, CPS's for all students in affected programs may be revised. In such cases, the university will seek to alter the CPS only to the extent required to meet the new standards.

Degree requirements must be completed within seven years from the effective date of the CPS. Exceptions may be granted by the appropriate dean. Undergraduate students exceeding the time limit will automatically come under the provisions of a more recent catalog, the specific edition to be determined by the appropriate dean's office.

Applying for Graduation

Degrees are not awarded automatically upon completion of degree requirements. To be considered a candidate for graduation, the student must submit an online application for graduation via their student E-Services account. Degree candidates must officially apply for graduation within the first three weeks of the semester in which they plan to graduate, but no later than the date specified in the Academic Calendar. Please refer to the Academic Calendar for online graduation application dates and deadlines to avoid additional late fee charges. To be eligible to apply for graduation, students must have completed

or be enrolled in the final courses required to meet graduation requirements. A non-refundable fee is required of all students who intend to complete their degree regardless if they choose to participate in the commencement ceremony. If students do not successfully complete their degree requirements at the close of the semester for which they have applied, they will be required to reapply and pay another fee during the subsequent semester in which they intend to graduate. Students who elect to participate in the commencement ceremony must "walk" in the semester they graduate. As there is no commencement ceremony in the summer, students who graduate in August will be eligible to participate in the December ceremony. Diplomas are mailed after the final approval is received from the graduating student's school. Diplomas are mailed to students 10 to 12 weeks after the end of the semester. Diplomas are mailed to the mailing address on record at the time of graduation. Students who graduate from UHCL must complete a new application and pay the applicable application fee in order to continue taking classes.

Latin Honors

Undergraduate students who have applied to graduate and have completed their degree requirements with exceptionally high scholastic averages will be eligible for Latin honors. To be considered as a candidate for Latin honors a student must have earned a minimum GPA of 3.5 the semester prior to applying to graduate and be within the top ten percent of their graduating class and in their college of study. Those who are in the top two percent of each college's enrollment of their class will be eligible to graduate summa cum laude; those in the next three percent, magna cum laude; and those in the next five percent, cum laude. The cumulative grade point average used in determining Latin honors includes all hours attempted and grades earned in those courses. As a result, the cumulative grade point average used in determining Latin honors may differ from the cumulative grade point average that appears on the student's transcripts which is based only on the grades earned in the last attempt of each course.

General Program Requirements Addendum

Undergraduate Degree Requirements for Bachelor of Science in Nursing

All candidates pursuing a Bachelor of Science in Nursing degree at the University of Houston–Clear Lake (UHCL) must meet certain minimum requirements. Students should refer to the department or college section of this catalog for complete requirements and total number of hours prescribed for the specific degree.

The following are the minimum requirements for a BSN degree:

1. Student must complete an Asociate in Nursing degree or a diploma in nursing. Some of the credits earned as part of the ADN will be applied toward the 120 semester credit hour requirement for the BSN degree.

- 2. Students must complete the University Core Curriculum requirements (refer to Core Curriculum Requirements section of this catalog).
- 3. Students must fulfill the statutory requirements of the Texas State Education Code, including the following:
 - a. Six hours of U.S. History (three hours may be Texas History).
 - b. Six hours of Constitutions of the United States and Texas.
- 4. A minimum of 30 upper-level hours in nursing must be taken in residence.
- 5. Students must have a cumulative GPA of 2.000 on course work completed at UHCL with grades of "C" or better on at least 30 hours of resident upper-level work. Grades of "C-" or below cannot be applied toward the 30 hours of resident upper-level work.

International Admissions and Programs

The Office of International Admissions and Programs is the one stop shop for all University matters related to our campus internationalization. The location of UHCL in the city of Houston, with more than 80 consulates, offers an unprecedented opportunity where one can evolve towards global citizenship. The Office of International Admissions and Programs welcomes prospective students, current students, alumni, faculty and staff. Our services include: international admission; international advising for F-1 students and alumni, F-2 dependents, and J-1 exchange visitors; study abroad programs; New International Student Orientation programs; and all University international agreements.

General Information

For General Information, please refer to relevant sections in this catalog for information, including but not limited to: Admission Statuses, Acceptance into a Degree Program, Admission Appeals Process, Transcripts and Records Information, Transferrable Credit, Records Retention and Release, University Policy Regarding Discretionary Authority, Automatic and Assured Admissions, Uniform Admission Requirements, Texas Success Initiative–TSI, Transfer Admission Requirements, Transient Students, Etc.

International Admissions

Application Fee

The current application fee is \$75.00.

The application fee can be paid by credit card (MasterCard, VISA, American Express or Discover) during online application or after the application's submission. To submit the application fee online after

applying, students must use their E-Services account or pay in person at the Office of Student Business Services.

Freshman applicants, who do not enroll, may update their admissions application for one semester only. Transfer applicants, who do not enroll, are eligible to update their application within three semesters of submitting their original application for admission. To update to a new semester, students should submit an Application Update Form, which can be found on the Office of International Admissions and Programs' website.

Application Deadlines

The application deadline dates for international applicants are as follows:

Fall Enrollment

Priority Deadline*: Apply by March 1 Final Deadline: Apply by June 1

Spring Enrollment

Priority Deadline*: Apply by August 1 Final Deadline: Apply by November 1

Summer Enrollment**

Priority Deadline*: Apply by February 1

Final Deadline: Apply by April 1

- * Students interested in qualifying for scholarships &/or applying for visas outside the U.S. should apply and submit the application documents/test scores by the priority deadline.
- ** Freshman will not be accepted for summer semester

Notification of Admission

Upon receipt of appropriate documentation, the Office of International Admissions and Programs will determine applicants' eligibility to the university and will notify them with the admission decision. If accepted, applicants will receive important information regarding registration dates and procedures. This information is also available on the university's website through E-Services.

Freshmen Admission Requirements

To be considered, applicants must pay the \$75 application fee, meet the regular admission requirements for freshmen students and submit the following:

1. International Undergraduate Freshman Application for Admission

- 2. If applicable, official TOEFL, PTE or IELTS score report meeting minimum score requirements or official documentation of completion of ELS Level 112 Intensive English Language Program (see English Proficiency Requirements for Students Educated Outside of the United States).
- 3. Signed Sponsor's Affidavit with attached financial statement
- 4. Signed Statement of Understanding
- 5. Copy of a current I-94 and SEVIS I-20 for F-1 students (pages 1 and 2) or DS2019 for J-1 students
- 6. Copy of photo page of passport

Please note: Applicants should use the following institution codes to send UHCL their test scores: SAT – 6916; ACT – 4171. International students submitting foreign documents must follow UHCL procedures for the submission of this documentation (see *International Transcript and Document Requirements*).

Freshmen International Applicants who do not meet the Uniform Admission Requirements or do not meet the Assured Admission Requirements must be considered through UHCL's Individual Review Process.

Individual Review

Students who rank in the 3rd or 4th quartile of their high school class, were home-schooled, attended a school outside of the state of Texas, an unaccredited school or those who received a GED must be considered through UHCL's Individual Review process. Students are required to:

- 1. Submit and Satisfy the College Readiness Benchmarks on the SAT or ACT assessment
 - a. SAT 1500 out of 2400 (Verbal + Math + Writing)
 - b. New SAT 1090 out of 1600 (560 ERWS + MSS)
 - c. ACT 18 English, 22 Reading, 22 Mathematics, and 23 Science
- 2. Submit an Essay or Personal Statement indicating education and career goals.
- 3. Submit two letters of recommendation which address academic ability and readiness for college level work. These letters must be from high school counselors or teachers. Applicants who earned a GED or who were home-schooled must present letters from individuals who can attest to their academic abilities and college readiness.

Applicants who were not admitted to UHCL following an Individual Review, may request an Admissions Appeal. Information obtained during the Individual Review will be used in the appeal process; however, applicants may present additional information to support their request for admission.

Factors that may be considered during Individual Review and Appeal processes:

- High school attended
- · First generation status
- Employment

- · Special abilities
- · Individual achievement
- · Leadership activities
- · Other public service-related activities

Transfer Admission Requirements

Transfer international students must pay the \$75 application fee, meet the general admission requirements noted in this catalog and submit the following:

- 1. International Undergraduate or Post-baccalaureate Application for Admission
- 2. If applicable, official TOEFL, PTE or IELTS score report meeting minimum score requirements or official documentation of completion of ELS Level 112 Intensive English Language Program (see English Proficiency Requirements for Students Educated Outside of the United States).
- 3. Signed Sponsor's Affidavit with attached financial statement
- 4. Signed Statement of Understanding
- 5. Copy of a current I-94 and SEVIS I-20 for F-1 students (pages 1 and 2) or DS2019 for J-1 students
- 6. Copy of photo page of passport

Please note: International students submitting foreign documents must follow UHCL procedures for the submission of this documentation (see *International Transcript and Documents Requirements*).

Transfer Applicant Information

Transfer students must submit official documents from each higher education institution attended. Documents must meet requirements for US documents or International Documents.

Official transcripts from domestic institutions must be received directly from the former institutions to the Office of International Admissions and Programs. UHCL prefers to receive electronic documents whenever possible. If necessary, the Office of International Admissions and Programs may accept hand-delivered transcripts. Transcripts delivered in this manner from domestic institutions will only be accepted as official if they have been printed within the past 60 days and are received in a sealed envelope from the issuing institution. Unofficial transcripts, student copies of transcripts or transfer coursework shown on transcripts will not be accepted as an official record of coursework.

Non-Degree-Seeking Status

International students, who hold F-1 visas, are not eligible for admission as non-degree-seeking students. They must enroll as degree-seeking in specific degree plans or programs. Although their primary program must be degree-seeking, these students can enroll simultaneously in a secondary non-degree certificate or certification program. J-1 students are allowed to enroll in non-degree-seeking statuses.

Transient Students (Regular or Summer)

Students enrolling in transient status must have completed at least 30 semester credit hours and can enroll at UHCL in non-degree status for only one regular semester or in both summer sessions. Their intent is generally to transfer coursework to another institution. They must provide all documentation required for admission prior to being eligible to register and must be eligible to return immediately to the last school attended. Those who wish to enroll in a second semester must obtain permission from the associate dean of their academic program and then reapply by submitting a new application and application fee.

International Conditional Admission

International applicants who meet the institution's admission requirements for their chosen level and degree program, but who have not yet met the English Proficiency requirement, can be conditionally admitted. Please note that conditional admission does not allow registration or enrollment at UHCL. To satisfy the English Proficiency requirement and be fully admitted to the university, students must enroll in and successfully complete an ELS Level 112 intensive English program or otherwise demonstrate proficiency of English (see *English Proficiency Requirements for Students Educated Outside of the United States*).

Transcripts and Records Information

Applicants with Both US and International Documentation

Transfer students who meet admission requirements based on their U.S. transfer documentation, are not required to submit accredited international transcripts during the admissions process. However, at the students' request, official international documentation may be accepted for consideration of additional credit, if the credit has not already been taken at UHCL or another accredited U.S. institution.

International Transcript and Document Requirements

School Accreditation Status

For applicants submitting college or university transcripts/documents, the institution must be listed among the recognized institutions of the International Association of Universities (UNESCO) or Ministry of Education.

Transcripts from International Institutions

Students must provide the Office of International Admissions & Programs with official transcripts, mark (grade) sheets and confirmation of degrees or diplomas for all academic studies attempted and completed at those colleges/universities. Some exceptions to this policy are noted in Applicants with Both U.S. and International Documentation.

Transcripts and/or mark (grade) sheets must be in the original language and accompanied by English translations (if applicable). These documents should clearly indicate dates of attendance, subjects taken and marks (grades) earned and reflect any degrees or diplomas awarded.

Official transcripts must be sent to University of Houston–Clear Lake by the registrar of each institution attended. When this is not possible, documents certified by an embassy or consular, Education USA Official, University Authority such as Principal, Registrar, Controller of Examinations, Vice Rector or Rector, Ministry of Education or Ministry of Foreign Affairs official as "true copies" may be accepted. Copies of documents that are not certified will not be accepted.

Students requesting to transfer specific undergraduate course work must provide the course syllabi (in English) in order for transfer credit to be determined. Some required core courses cannot be transferred from non-Texas institutions.

Any appropriate credit will be granted according to UHCL degree requirements in effect at the time of enrollment. An official evaluation for transferring students will be completed during the first semester of enrollment.

English Proficiency Requirements for Students Educated Outside of the United States

Applicants educated in countries where English is not the native or first language must demonstrate English proficiency. The intent of this policy is to ensure that students, for whom English is not the native language, have a reasonable chance to succeed academically based on their ability to comprehend and use spoken and written English.

Applicants may satisfy the English proficiency requirement by presenting any of the following:

- Official Test of English as a Foreign Language (TOEFL) scores of 550 or higher on the written exam or 79 or higher on the iBT TOEFL examination
- Official Pearson Test of English (PTE) scores of 53 or higher
- · Official International English Language Testing System (IELTS) score of 6.0 or higher
- Official documentation of successful completion of the ELS Level 112 Intensive English program

Score reports may not be more than two years old at the time of application. Only official scores will be accepted.

Exception: Candidates for educator certification must demonstrate English proficiency by passing the iBT TOEFL examination with a score of 26 on the speaking portion. No other tests or programs are accepted by Texas Education Agency for certification applicants.

Procedure to Apply for English Proficiency Waiver

A TOEFL exemption may apply, if at least one of the following requirements is met:

- Applicants earned a high school diplomas from U.S. high schools or have conferred associate's,
 baccalaureate or higher degrees from regionally accredited U.S. institutions of higher education.*
- Applicants were educated in countries where English is the native language. This exemption refers
 to students from Australia, the Bahamas, Belize, the British Isles (England, Ireland, Scotland,
 and Wales), English-speaking Canadian provinces, Fiji Islands, Guyana, Jamaica, Liberia, New
 Zealand, Sierra Leone, South Africa, St. Lucia, Trinidad, United States, Virgin Islands, West Indies
 and Zimbabwe.*
- Applicants present qualifying test scores in the English and writing testing areas from the SAT,
 ACT, TAAS, TAKS or Stanford Achievement Tests (for deaf students only). Specific exemption
 information can be obtained by contacting the Office of International Admissions and Programs. All
 information used to exempt students from English proficiency requirements must be official and
 received directly from the appropriate testing agency or posted on official transcripts from transfer
 institutions.
- Applicants have completed 12 or more semester credit hours of English from regionally accredited U.S. institutions of higher education with grades of "C" or better, with six of the 12 semester credit hours being in English composition. English as a Second Language (ESL or ESOL) courses will count only if they would apply toward degrees at the institutions where the courses were taken.

Applicants, whose native or first languages are not English, but who a conferred bachelor's degree or higher in an English-speaking country, may request consideration for an English proficiency waiver. Those requesting a waiver must submit petitions and supporting documentation to the Office of International Admissions and Programs. Appropriate action will be taken only when full documentation is provided.

*Applied Science Degrees cannot be used to waive the English Proficiency Requirement.

Other Policies Applicable for International Students

Transfer-In Policy

Students who hold F-1 visas and are currently studying at another SEVIS approved institution of higher education in the United States must do the following:

- 1. Be accepted by University of Houston-Clear Lake
- 2. Request the "transfer-out" school to transfer their SEVIS record to UHCL
- 3. The "transfer-out" school must then set up the SEVIS transfer to UHCL, prior to the student receiving eligibility to enroll.

Health Insurance

All international students holding F or J visas are required to have health insurance, including medical evacuation and repatriation coverage. The university provides such insurance and automatically adds the premium to applicable tuition/fee statements. International students with health insurance comparable to the university's coverage may request a waiver of the university's health insurance.

To be considered for a waiver, students must submit a waiver request online by the dates posted. The Office of International Admissions & Programs will not accept waiver requests by U.S. mail, e-mail, fax, or documents brought to the office. Incomplete requests, late requests, or insurance policies not meeting the minimum requirements will not be approved. Each F or J visa holder is responsible for any late fees associated with the waiver process.

Check-In

All international students holding F and J visas are required to check in with the Office of International Admissions & Programs upon arrival to campus. Students must complete this check-in process through an online system available through the department's website. Also, students must submit all official transcripts, other academic documents showing degree completion, and final semester coursework.

International Student Orientation

New International Student Orientation is offered prior to each fall, spring and summer semester and is mandatory for all new international students. A comprehensive program is offered to all new international students to the university. The orientation provides information regarding health insurance, visa regulations, cross-cultural adjustment, transition to college, negotiating campus setting, academic and peer advising. Airport pickup services are offered for first time international students.

Co-Enrollment

Intenational students seeking undergraduate degrees at UHCL may obtain an International Student Advisor's permission to co-enroll at another (host) institution. Permission for concurrent enrollment must be obtained from a UHCL international student adviser prior to attempting to register and enroll concurrently at a different institution. At the beginning of the semester, a registration print out or transcript from the host school must be provided to the UHCL international student adviser as proof of students' enrollment status. International students must provide official transcripts after the semester has completed from the host institution.

Study Abroad Programs

At UHCL, we are committed to helping students expand their global awareness. Study abroad allows students to have the experiences that come with traveling abroad while also enhancing their academic program. Students and faculty who are interested in study abroad opportunities should contact OIAP to

arrange an information meeting. All students who participate in a study abroad program are required to complete the University's study abroad participation forms, purchase the University approved study abroad health insurance, and attend a pre-departure orientation meeting.

New Student Admissions

Office of Admissions

Admission Statuses

Admission is defined as permission to enroll in courses for academic credit. Admission to the university does not guarantee admission to specific majors or academic programs. High School and Transfer applicants may be admitted as either new or returning undergraduates.

New students

New high school or transfer students are those who have never enrolled at University of Houston-Clear Lake (UHCL) or who were not enrolled beyond the census date of any semester.

Former undergraduate students

Former undergraduate students are those who have attended UHCL, but have not enrolled during the past three consecutive semesters.

Formerly enrolled undergraduates, who left UHCL in good standing, must be readmitted under the current Freshman or Transfer Student admission requirements. However, those who left due to an academic deficiency should follow the university's readmission policy.

Post-baccalaureate students

Post-baccalaureate students are those who have a conferred bachelor's degree and will enroll in undergraduate status.

Student Degree Options

Degree-seeking students

Degree-seeking students are those who will apply for admission to an academic degree programs.

Non-degree-seeking students

Non-degree-seeking students are those seeking admission for reasons other than the pursuit of a degree, (e.g. personal enrichment, job enhancement or teacher certification).

Non-degree-seeking students are not eligible for financial aid and must reapply as degree-seeking in order to pursue a degree at UHCL in a future semester. Credit earned in non-degree status will not automatically be applicable to academic degree programs. Additionally, some courses are restricted for enrollment by degree-seeking students; and, the number of hours taken in non-degree status that can be applied to students' Candidate Plan of Study (CPS) may be limited.

For specific policies regarding course availability and application, please refer to the appropriate academic department's program section in this catalog.

Transient students (Regular or Summer)

Transient students are those who wish to enroll in non-degree-seeking status at UHCL for only one fall or spring semester; or, in one or both summer sessions.

All required documentation for admission must be provided prior to registration. Once enrolled, transient students who wish to continue enrollment in a future semester must obtain permission from the associate dean of their academic program; then they must reapply, by submitting a new application and application fee to the Office of Admissions.

Email Communication

The university-assigned campus email address is the official means of communication for all student-related information and exchanges among academic and administrative offices. Applicants will be contacted by the preferred email address they indicated when applying for admission. Once admission is granted, all students will be contacted by their UHCL email address.

Applicants and students are responsible for checking UHCL email regularly to ensure receipt of important university information in a timely manner. For convenience, students may forward UHCL email to a preferred email account. Those interested in this option should visit University Computing and Telecommunications' website for forwarding instructions or contact them at supportcenter@uhcl.edu.

Notification of Admission

Upon receipt of all required documentation, the Office of Admissions will determine applicants' admissibility to UHCL and will notify them of the admission decision. If accepted, students will receive additional information from admissions or other university departments regarding registration and enrollment.

Acceptance into a Degree Program

Acceptance into a degree program is determined by each academic college's or department's admission standards. Transfer credit from other institutions and credit earned at UHCL is not automatically applied toward the completion of UHCL degrees.

Applicable transferrable courses and additional course work remaining toward completion of UHCL degree requirements are confirmed once the Candidate Plan of Study (CPS) has been completed by the department and provided to students. Students who are not enrolled for twelve months must contact their academic adviser to receive a revised CPS, based on new or revised degree requirements.

Admission Appeals Process

Applicants who do not initially meet university admission standards or who are denied through Individual Review may request an appeal of their admission decision. This request must be accompanied by the Admissions Appeal Form which is available on the Office of Admissions' website. Applicants must also submit a personal statement, three letters of recommendation addressing their abilities and preparedness for university-level study and any additional information believed to be relevant to their request for reconsideration.

Personal statements should provide reasons for past academic performance, plans to ensure future success and may include other factors such as high school attended, first generation college attendance, employment experience, special abilities such as bilingual proficiency, meeting family responsibilities, individual achievements, leadership activities, public service, military service, extra-curricular activities or other information or supporting documentation. A complete application packet of all required documents and scores must be on file in the Office of Admissions, prior to the review.

Academic Fresh Start

Academic Fresh Start allows entering undergraduate applicants to request that an institution disregard academic coursework previously earned at other institutions of higher education in Texas. An institution may exclude all grades earned at other Texas institutions 10 or more years prior to applicants' initial enrollment. Applicants requesting admission under this option must also be Texas residents for the purpose of tuition and fees.

Academic Fresh Start can be used for undergraduate admission purposes only. A request for Academic Fresh Start will not be accepted for students who have already enrolled at UHCL, and once enrolled under the Academic Fresh Start option, it cannot be revoked.

The provisions require that all applicable coursework be excluded from consideration for academic purposes; requests for partial exclusions will not be considered. Therefore, coursework ignored due to Academic Fresh Start must be retaken, if required to qualify for admission or in order to be considered as prerequisites for upper-level coursework*. Consequently, students who enroll under Academic Fresh Start who subsequently earn bachelor's degrees, can only use the grade point average earned after this option was invoked, when applying for admission to post-graduate or professional programs.

To enroll under the Academic Fresh Start option, applicants must meet with an Enrollment Management Counselor, provide a written request of their intention to enroll under Academic Fresh Start and sign the required Acknowledgment Form.

*Exception: Students who were originally exempt from the Texas Success Initiative (TSI) due to coursework completed prior to fall 1989 and have chosen to ignore those hours by enrolling under Academic Fresh Start will still be considered TSI exempt.

Transcripts and Records Information

US Transcript Requirements

High School Transcripts must be accredited by either the Texas Education Agency or the appropriate Regional Association of Schools and Colleges.

Transcripts from Colleges or Universities

For admission purposes, UHCL will accept official transcripts from regionally accredited colleges and universities. For purposes of transfer credit, UHCL only considers academic credit in evaluating hours earned for transfer admissions purposes. For more information on acceptable transfer coursework, see Transferrable Credit.

Application Procedures

Applicants must indicate on their application for admission all previous schools attended. The Office of Admissions must receive all documents by the appropriate deadline (see Deadlines). An official transcript of any coursework in progress, prior to or during enrollment at University of Houston–Clear Lake, should be sent to the Office of Admissions immediately after grades are posted. UHCL's preferred method of transcript delivery is via EDI or SPEEDE download. Degree–seeking students should submit official transcripts from each college or university attended. To expedite processing, applicants should request that transcripts be sent electronically. Hand–delivered transcripts must be no more than 60 days old and enclosed in a sealed–envelope from the issuing institution.

If students knowingly withhold information or submit fraudulent information regarding enrollment at another accredited institution, their application to University of Houston-Clear Lake will be considered invalid and they may be administratively withdrawn from classes without a refund of fees paid.

International Transcript and Documents Requirements

School Accreditation Status

Foreign transfer schools or universities must be listed among the recognized institutions of the International Association of Universities (UNESCO) or Ministry of Education.

Transcripts from International Institutions

U.S. students who attended international institutions must provide the Office of Admissions with official transcripts, mark (grade) sheets and confirmation of degrees or diplomas for all academic studies attempted and completed at those colleges/universities, prior to enrollment. Some exceptions to this policy are noted for applicants with both U.S and international documents. Transcripts and/or mark sheets must be in the original language and accompanied by English translations (if applicable). These documents should clearly indicate dates of attendance, subjects taken and marks (grades) earned and reflect any degrees/diplomas awarded. Official transcripts must be sent directly to University of Houston–Clear Lake by the registrar of each institution attended. When this is not possible, documents certified by an embassy or consular official as "true copies" may be accepted. Scanned or photocopies of documents that are not certified will not be accepted.

Students requesting to transfer specific undergraduate coursework completed outside of the U.S. should be prepared to provide a course syllabus to determine equivalency to UHCL coursework. Applicants should also consider this when pre-requisites are required for enrollment in specific upper-level coursework. Some required core courses cannot be transferred from non-Texas institutions. Any appropriate credit will be granted according to UHCL degree requirements in effect at the time of enrollment. If all required documentation is received, an official evaluation for transferring students will be completed during the first semester of enrollment.

Applications with Both US and International Documentation

Transfer applicants who meet admissions requirements based on their U.S. transfer documentation, may not be required to submit accredited international transcripts during the admissions process. Domestic applicants must submit a written request to the Office of Admissions to waive the eligible foreign transcript for admissions purposes. Students who are made core complete based on transfer work from an international document may not be eligible for this waiver. At the students' request, official international documentation may be accepted later for consideration of additional credit, if the credit has not already been taken at UHCL or another accredited U.S. institution.

Transferrable Credit

Acceptable institutions

Transfer colleges must be regionally accredited as indicated by the American Council of Education or recognized by the US Department of Education, the Texas Higher Education Coordinating Board or the appropriate Ministry of Education for overseas studies.

Acceptable coursework

College level (non-remedial/developmental) academic coursework completed at regionally accredited institutions is generally accepted when courses are compatible with UHCL academic coursework and applicable to students' programs of study. All other coursework, including that completed at institutions of higher education having national accreditation, are reviewed case-by-case, requiring the following two criteria be met:

- Courses must be equivalent to courses offered at UHCL and will be reviewed on a course-by-course basis by the appropriate academic department.
- Courses must fulfill established degree requirements for graduation, as either elective or program specific course credit and will be reviewed on a course-by-course basis by the appropriate academic department for applicability to the program of study.

Granting Credit

Credit may be granted for courses taken through various non-collegiate organizations, based on recommendations made by the American Council on Education or Commission on Educational Credit, when such training is considered by UHCL to be at the baccalaureate level and consistent with students' educational objectives. These types of credit will be reviewed on a case-by-case basis, by the appropriate academic department.

- Developmental and remedial courses and courses classified as below freshman level, by the
 institution where the student took them, are not transferrable and will not count toward a degree
 at UHCL. Workforce and technical courses taken at regionally accredited institutions of higher
 education that are not normally accepted in transfer, may be transferred with departmental
 approval. Exception: Technical credit will automatically be accepted to satisfy specific degree
 requirements for the eligible Bachelor of Applied Science and Nursing programs.
- Courses will transfer to UHCL at the same level and with the corresponding number of hours earned at the transfer institution with some exceptions. Grades are not transferrable. The official UHCL grade point average is based only on coursework completed in residence at UHCL. Students cannot satisfy baccalaureate degree requirements at UHCL with coursework taken at another institution, unless those courses are both accepted by the University in transfer and applied toward their baccalaureate degree(s).

Core Curriculum Credit Requirements

As of fall 1999, the following clarifications apply to the transfer of core curriculum credit:

- Students who transfer to UHCL from another Texas public institution of higher education, where they have successfully completed all of that institution's Texas Higher Education Coordinating Board-approved core curriculum, shall be considered by UHCL to be "core complete" and shall not be required to take additional courses to complete UHCL core curriculum.
- Students, who transfer to UHCL before completing all of the Texas Higher Education Coordinating Board approved core curriculum requirements at another Texas public institution of higher education, shall receive credit toward the UHCL core for each of the core courses they completed up to the maximum specified in each core component area by the transfer institution. It should be noted that these students may be required to take additional courses to complete the UHCL core curriculum.
- Students who transfer to UHCL from institutions that do not have a Coordinating Board-approved core curriculum may use transfer credits to satisfy UHCL core curriculum requirements. When no equivalency exists, students may request a review.
- A maximum of 75 semester hours of lower division (freshman and sophomore) transfer work will be allowed to apply toward a baccalaureate degree at UHCL. Degree requirements for specific majors will determine the number of lower division courses that are accepted in transfer. The classification of courses as lower division is based on their external level and their classification at UHCL.

Earning a UHCL Degree

To earn a bachelor's degree at UHCL, students must complete 25% of their final program credit hours in residence. For a standard 120-hour degree program, that would be equal to 30 semester credit hours. Unless prohibited by one or more of the general regulations above, the dean of the college in which students major will make final decisions concerning the application of transfer credit to degree programs.

Developmental or Remedial Transfer Coursework

Developmental or remedial transfer coursework is non-transferrable and will not be used to determine eligibility to UHCL. This credit will not count toward meeting the University's minimum admission requirements for enrollment.

Dual Credit or Early Enrollment Coursework

High school applicants who earned dual credit or who were concurrently enrolled in an institution of higher education, before earning their high school diploma, will be considered freshmen for admission purposes. Applicants who graduate from high school in a spring term and who have only earned college credit in the summer term immediately following their high school graduation, are still considered freshmen for admission purposes. These applicants should apply as freshman students regardless of hours earned. Transfer credit will be evaluated for course equivalency once official college transcripts

are received. Students who are admissible without submitting college transcripts, should send those documents to the Office of Admissions immediately after admission to the University for application of course credit. This will aid in the appropriate course registration and advisement as well as determination of test assessment waivers, if applicable. UHCL's preferred method of transcript delivery is EDI or SPEEDE download.

Repeated Transfer Courses

All transferrable coursework attempted (including repeated courses) will be used to determine the cumulative transfer grade point average required for admission. If students repeat a course, it is with the understanding that the last grade earned for that course will be the one counted toward fulfillment of UHCL degree requirements. However, once a student has satisfied a core course, repeated attempts of the same course will affect core curriculum satisfaction. Remedial or developmental coursework will not be used.

Service Indicators and Records Retention and Release

Service Indicators

Service Indicator holds will prevent students from registering for the next enrollment term until all appropriate admissions documentation is received. Failure to provide official documents will result in holds that will hinder future registration attempts and stop the release of records, including University of Houston–Clear Lake transcripts. These holds may vary by restriction and type and may be placed by various university departments. Students, admitted with transcripts indicating that some coursework is still incomplete or currently in–progress, must submit a final transcript showing completed grades as soon as it is available, in order to avoid future registration holds.

Service Indicator holds placed by any University of Houston system campus: (UHCL), University of Houston (UH), University of Houston-Victoria (UHV) or University of Houston-Downtown (UHD) will not hinder registration and/or enrollment at a different campus unless the hold is a "Cross Campus – B" Financial hold. Cross Campus holds can be applied at each system campus and can only be cleared at the campus where they originated. This type of financial hold must be cleared before students are eligible to register at any other campus in the University of Houston System.

Records Retention and Release

Records from other institutions are kept on file for a period of five years after students' final enrollment. Former students who did not enroll during the past five years must resubmit transcripts and documentation, and pay the application fee when reapplying to the University, if those documents are no longer available. Once documents are submitted to University of Houston–Clear Lake, they become the property of the University and will not be returned or otherwise sent to other institutions or entities via email, fax or U.S. mail. Students may receive copies of their previously submitted transcripts or scores in

person or by bringing a valid Texas Driver's License or ID to the Office of Admissions and completing a request form to release the information.

University Policy Regarding Discretionary Authority

The University reserves the right to reject applicants whose record does not indicate potential success at University of Houston–Clear Lake, notwithstanding the completion of other requirements. It also reserves the right to further evaluate applicants by using psychological, achievement and/or aptitude tests and personal interviews.

Additionally, the University reserves the right to reject applicants who falsify information submitted for admission consideration or used to determine admissibility to the University as well as those who display, during the application process, acts of misconduct or conduct unbecoming of UHCL students, as defined in section B of the UHCL student conduct code policies. Readmission may be denied to former students who have falsified university documents or who have used a university official's signature inappropriately for personal benefit or gain.

Freshman Admissions

In order to be considered for admission, applicants must apply online via the Apply Texas Application website and submit official transcripts, entrance examinations and any required review materials by the appropriate deadlines.

The current Application Fee is: \$45.00

Application fees can be paid by credit card (MasterCard, VISA, American Express or Discover) during online application or after the application's submission. To submit the application fee online after applying, students must use their E-Services account or pay in person at the university's Student Business Services office.

Freshmen applicants, who do not enroll in their applied semester, may update their admissions application for the next available fall or spring semester only. To request an update to the next available semester, students should submit an Application Update Form, which can be found on the Office of Admissions' website.

If eligible, these applicants may also update their application to transfer admissions status, within one year of their initial application. Those seeking transfer admission must have earned at least 30 transferrable credit hours and must have submitted official proof of high school graduation or receipt of GED to the Office of Admissions.

Automatic and Assured Admission

In compliance with state law, applicants who graduate in the top 10% of their high school class and who successfully complete the Foundation Program at the Distinguished Level of Achievement, the Recommended High School Program or the Distinguished Achievement Program will receive automatic admission to UHCL. In order to be eligible for consideration under this option, applicants must have graduated from high school no more than two years prior to the academic year for which they are applying for admission.

Automatic Admissions

Applicants in the top 10% of their class are required to submit either SAT* or ACT scores. Students will be required to participate in University success programs if they do not earn the following:

- SAT or Redesigned SAT: a minimum score of 1030 on the combined (critical reading + math) sections; or on the redesigned SAT (reading/writing + math) sections
- · ACT: a minimum score of 20 on the ACT Composite

Assured Admission

Applicants who meet the State of Texas Uniform Admission Policy and also meet the requirements below are assured admission to UHCL.

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UHCL may accept both current and resigned SAT scores for admissions and scholarships. Applicants may submit scores from either the current SAT or the redesigned SAT. A writing score is not required, but may be considered if the file is sent to Individual Review.

Applicants who:

- attended a non-accredited high school, or
- · attended home school, or
- · received a GED, or
- do not meet the criteria for Automatic or Assured admission will be considered for admissions under Individual Review

Admission Under Individual Review

Freshman applicants who do not meet the Assured Admission criteria may be referred to the Admissions Review Committee. Once files are reviewed, applicants may be asked to submit additional information required to finalize the admission decision. These may include:

- · New SAT or ACT scores
- · An essay (personal statement) addressing educational and career goals

- Letters of recommendation from a high school counselor and two teachers. All letters should naddress the student's academic ability and preparedness for university-level study.
- A college transcript with in progress or completed course work.

Consideration for admission by Individual Review can occur only if applicants have submitted the requested documentation (letters of recommendation, personal essays, etc.). Additionally, applicants considered in Individual Review may be required to complete interview sessions with an admissions officer.

Applicants not admitted to UHCL by Individual Review may request an Admissions Appeal. Information obtained during the Individual Review will be used in the appeal process; however, applicants may present additional information to support their request for admission.

Applicants are required to submit:

- Three letters of recommendation which address the applicant's academic ability and preparedness for university-level study. One letter must be from the applicant's high school counselor and two from the applicant's teachers. GED and home-schooled applicants may present letters from individuals who can address the applicant's academic ability and preparedness for university-level study.
- · Essay or personal statement addressing educational and career goals
- Factors that may assist in determining academic readiness be considered during the Appeal processes:
 - · High school attended
 - First generation college attendance
 - · Employment experience
 - · Special abilities such as bilingual proficiency
 - · Individual achievements
 - · Leadership activities
 - · Public service
 - Extra-curricular activities
 - Military Service

Important Information

Students applying to UHCL based on high school, GED or home-school status must meet Texas Uniform Admissions Requirements; and in order to register and enroll for classes, they must also satisfy the state's TSI Requirements.

Applications will be reviewed based on the following criteria:

- Sixth/Seventh Semester Grades: The University will evaluate and admit applicants based on their high school academic records through six or seven semesters (end of junior year or beginning of the senior year). Final transcripts showing high school graduation are required once students have graduated.
- Accredited High Schools: Applicants graduating from high schools accredited by either the Texas Education Agency or the appropriate Regional Association of Schools and Colleges will be admitted, if they meet the current admission requirements.
- Non-accredited High Schools: Applicants graduating from high schools that are not accredited by either the Texas Education Agency or the appropriate Regional Association of Schools and Colleges can only be admitted by Individual Review or through the Admissions Appeals Process.
- GED: The University recognizes GED tests as the equivalent of high school graduation. Applicants who have passed the GED examination and submit satisfactory SAT or ACT scores may be considered for general admission only by Individual Review or the Admission Appeals Process. Applicants who attend foreign high schools prior to receipt of a GED, may still be required to submit proof of English proficiency.
- Home School Applicants: Documentation of home-school studies is required for admissions consideration along with official SAT/ACT scores. Home school applicants may be admitted only by Individual Review (p. 35)or through the Admissions Appeals Process (p. 28). Applicants should use the following institution codes to send UHCL their test scores:
 - · SAT 6916
 - · ACT 4171

Uniform Admission Requirements

University of Houston Clear Lake abides by the State of Texas Uniform Admissions Policy (Texas Education Code 51.803-51.809), which requires that all applicants meet one of the following college readiness standards, in order to be eligible for admissions consideration at Texas Four-Year Public Institutions.

Applicants must:

- Successfully complete the Foundation, Recommended or Advanced High School Program from a Texas public high school or the portion of the program that was available to them; or
- · Satisfy the College Readiness Benchmarks on the SAT or ACT assessment
 - · SAT 1500 out of 2400 (Verbal + Math + Writing)
 - ERWS=480, MSS=530
 - ACT 18 English, 22 Reading, 22 Mathematics and 23 Science

Applicants, who do not meet the Texas Uniform Admissions Policy with either their high school program or one of the assessment tests, must prove readiness by submitting the appropriate signed exemption form to the Office of Admissions.

Transfer Admissions

Transfer applicants will be admitted, if they have earned a minimum of 30 semester credit hours and meet the appropriate admissions requirements. These students should apply online using the Apply Texas Application for Transfer Students and submit all required documentation by the deadline.

The current Application Fee is: \$45.00

Transfer applicants, who do not enroll for the semester applied, are eligible to update their application within three semesters of submitting their original application for admission. To update to a new semester, students should submit an Application Update Form, which can be found on the Office of Admissions' website.

Application fees can be paid by credit card (MasterCard, VISA, American Express or Discover) during online application or after the application's submission. To submit the application fee online after applying, students must use their E-Services account or pay in person at the university's Office of Student Business Services.

Transfer Applicants - Bachelor of Arts, Bachelor of Fine Arts, or Bachelor of Science

Admissions Criteria

Transfer students who have earned a minimum of 30 semester credit hours and are eligible to return immediately to the last institution attended, will be admitted if they meet the following requirements:

Semester Credit Hours/Required Cumulative GPA*		
0-29	Must meet freshman criteria	
30-44	GPA 2.25	
45+	GPA 2.00	

*All grades earned from college-level courses, including repeated courses, are used to compute the transfer grade point average. Applicable course work from regionally accredited U.S. institutions are accepted; other course work may be accepted by review on a case-by-case basis, if equivalent to course work offered at UHCL and applicable to appropriate programs.

Plus and minus grade designations are not used to determine the cumulative transfer GPA. Remedial or developmental course work is not used in the calculation of the transfer GPA.

Transfer students must indicate all former institutions attended on their application for admission. Students with both U.S. and International credit, but have earned at least 30 semester credit hours, are eligible to return to their last school and meet transfer admission GPA requirements based on credit

earned at U.S. institutions, can be considered for admission to the university

Associate Degrees

Applicants who have earned associate degrees may be admitted as follows:

- 1. Earned an Associate of Arts, Associate of Arts in Teaching or Associate of Science degree from regionally accredited institutions**
- 2. Are eligible to return immediately to the last institution attended

** Applicants who attended another transfer institution, after receipt of an Associate's degree, must meet regular transfer admissions requirements.

Transient Admission Requirements (Non-Degree Seeking)

Students enrolling in transient status must have completed at least 30 semester credit hours and can enroll at UHCL in non-degree-seeking status for only one regular semester or in one or both summer sessions. Their intent is generally to transfer coursework to another institution. Transient students are not eligible to receive financial aid.

To be admitted, students must provide all documents required for admission prior to being eligible to register and must be eligible to return immediately to the last school attended. Those seeking to enroll in a future semester must obtain permission from the associate dean of their academic program and must reapply, by submitting a new application and fee to the Office of Admissions.

Transients who wish to become regular students at UHCL must request degree-seeking status, by submitting a new application and application fee to the Office of Admissions and meeting the appropriate transfer admission requirements.

Teacher Certification

Students can complete a teacher certification programs with or without earning undergraduate or graduate degrees. Those who have earned bachelor's degrees and plan to complete undergraduate teacher certification, without simultaneously enrolling in graduate degree programs, should complete their certification program in post-baccalaureate status.

Post-Baccalaurate Forollment

Post-baccalaureate (PB) applicants have earned a bachelor's degree or higher and are seeking to enroll in additional coursework at the undergraduate level. Applicants may enroll as degree-seeking or non-degree-seeking.

Degree-seeking PB applicants must submit transcripts from each institution attended and may not enroll in graduate coursework, except under provisions that specifically authorize undergraduate enrollment in graduate courses.

PB applicants who apply as non-degree-seeking must submit transcripts from the last school attended as well as the school where their highest degree was earned. Non-degree-seeking PB students are not eligible for financial aid.

Hawk Connection

Hawk Connection is a program that allows community college students to experience university life, while still enrolled as freshmen or sophomores at a community college. Students can join as soon as they enroll in community college and there is no application fee. Benefits include a signed combined community college and University of Houston–Clear Lake degree plan under the current UHCL catalog and participation in many on–campus activities. Many other benefits are outlined in the program guide. To be eligible to participate in this program students must:

- 1. Have completed fewer than 36 semester credit hours on all college coursework
- 2. Be in good academic standing
- 3. Attend a required advising meeting to learn about the many benefits of the program
- 4. Sign a Hawk Connection agreement

For more information about Hawk Connection, or to schedule an advising meeting, contact the Hawk Connection Coordinator in the Office of Transfer Advising at 281–283–3068, visit us on the website or send an email to connection@uhcl.edu.

Bachelor of Applied Science Degrees - Technical

UHCL offers the Bachelor of Applied Science in Interdisciplinary Studies (BAS). The BAS degree has three tracks, one in the College of Business, one in the College of Education and one in the College of Science and Engineering. Each college has its own specific requirements.

College of Business

Applicants can be considered for the Bachelor of Applied Science (BAS), Healthcare Services track in the College of Business, if they:

- 1. Have an Associate of Applied Science degree in an Allied Health-related field, and
- 2. Are eligible to return to the last school attended, and
- 3. Earned a 2.0 cumulative GPA

College of Education

Applicants can be considered for the Bachelor of Applied Science (BAS), Educator of Young Children track in the College of

Education, if they:

- 1. Have an Associate of Applied Science degree in an Early Childhood program, or a minimum of 33 semester credit hours with a minimum of 15 technical or vocational hours in an Early Childhood discipline
- 2. Are eligible to return to the last school attended
- 3. Earned a 2.0 cumulative GPA

College of Science and Engineering

Applicants can be considered for the Bachelor of Applied Science (BAS), Information Technology track in the College of Science and Engineering, if they:

- 1. Have an Associate of Applied Science degree in Information Technology or a related field, or have a minimum of 33 semester credit hours with a minimum of 15 technical or vocational hours in an IT or related discipline, and
- 2. Are eligible to return to the last school attended
- 3. Earned a 2.0 cumulative GPA required

Bachelor of Science in Nursing (RN to BSN)

Registered Nurses can earn a bachelor's degree in nursing (BSN) to improve their managerial skills and advance as nurse managers.

Applicants must have:

- · Earned an Associate Degree in Nursing (A.D.N.) from an accredited institution
- · A current unencumbered Texas RN license
- Have a 2.0 cumulative GPA and 2.5 cumulative on specific nursing courses

Complete Anatomy and Physiology I, II and Microbiology with a grade of C or better and a minimum cumulative GPA of 2.5.

A copy of your valid license to practice as an RN in Texas must be uploaded online through your To-Do-List in the Student Center of your E-services account. Applicants may also choose to authorize the Nursing Department to verify their RN license.

Readmission or Status Change Process

Former UHCL Students

Former students seeking readmission after three semesters of nonenrollment should submit the following:

- 1. Completed Admissions Application
- 2. Non-refundable application fee
- 3. Official transcript(s) of any coursework completed since the last semester of enrollment at University of Houston-Clear Lake.

Students who graduated from UHCL and wish to enroll in additional coursework must complete a new application and submit the appropriate application fee. Former or returning students are required to meet the university's current admission requirements. Those who have not been enrolled at UHCL within the past five years or whose information is no longer on file, are required to resubmit documents from other institutions for consideration of readmission.

Students who leave the university on academic probation will be readmitted on probation. Degree-seeking students whose ability to enroll was terminated due to an academic deficiency must be reinstated by the appropriate dean prior to readmission. Non-degree-seeking students will be reinstated by the Associate Vice President of Enrollment Management.

Changing Careers or Admissions Status

Enrolled students who would like to change their academic careers from undergraduate to graduate (vice versa) or who would like to change their classification from non-degree-seeking to degree-seeking, must submit a new application to the Office of Admissions, pay the application fee and meet appropriate admission criteria and deadlines. Students who enroll as degree-seeking and wish to change to non-degree-seeking should complete an Academic Records Change form (ARC), available through their programs academic advising offices.

Applicants to the University, who applied to either an undergraduate or graduate career and would like to change their career prior to enrolling, can do so once without submitting a new application* by completing an Application Update Request Form. For each additional career change, students must reapply and submit a new application fee. * Eligible applicants may be asked to submit a new application; however, the fee will not be assessed.

Applicants interested in changing their program or degree status, while remaining in the same career, can do so prior to the first day of classes.

Texas Success Initiative-TSI

The Texas State Education Code requires all students to demonstrate proficiency in the areas of reading, writing and mathematics, prior to their initial enrollment in a Texas institution of higher education. Students seeking enrollment must demonstrate college-readiness by taking the Texas Success Initiative Assessment and meeting the established cut-off scores; or by qualifying for an exemption. In accordance with the statute, UHCL will honor the status of students who previously satisfied TSI requirements.

TSI Assessment Test Scores

TSI Score Requirements Mathematics -350 Reading -351

Writing – a placement score of at least 340, and an essay score of at least 4; or a placement score of less than 340, and an ABE Diagnostic level of at least 4, and an essay score of at least 5.

TSI Assessment Excemptions through Test Scores

Students are exempt from taking the TSI Assessment and are considered college ready if they obtain the following scores on one of the examinations listed below:

- SAT-(Scholastic Assessment Test) Prior to March 1, 2016: A combined critical reading and math totaling 1070 or higher with at least 500 or higher in critical reading and 500 or higher in math. A partial exemption is granted to students
 - whose combined score is 1070 and score a minimum of 500 in either section, but not both. UHCL will accept current and redesigned SAT scores for admissions and scholarship purposes, a writing score is not required.
- SAT-(Scholastic Assessment Test) Effective March 1, 2016-Students must score 480 on the Evidenced Based Reading/Writing exams and 530 on the Math exam.
- ACT-(American College Testing (American College Testing (American College Testing): A composite score of 23 is required; with a minimum 19 on the English and corresponding mathematics sections (accepted within 5 years from the date of testing). A partial exemption is granted to students whose composite score is 23 and scores a minimum of 19 in either section, but not both.
- TAKS-(Texas Assessment of Knowledge and Skills): A minimum scale score of 2200 on the Mathematics section and a 2200 on the English Language Arts section, with a writing subsection score of at least 3, is required for exemption from these sections; and a minimum scale score of 2200 is required for an exemption from the mathematics section (accepted within 3 years from the date of testing on the 11th grade exit-level exam).
- STAAR –(State of Texas Assessments of Academic Readiness): ademic Readiness): A minimum score of Level 2 on the English III end-of-course (EOC) will exempt students from English and Writing requirements
 - and Level 2 of the Algebra II end-of-course (EOC) will exempt students from the Math requirement.

TSI Assessment - Other Excemptions

Students are exempt from taking the TSI Assessment and are considered college ready if they qualify for one of the following exemptions:

• Degree exemption: Students must have earned an associate's degree or a higher from a regionally accredited US institution of higher education. (Associate of Applied Science degrees are not accepted).

- Previous institution exemption: Previous institution exemption: Previous institution exemption: Transfer students who have previously attended a Texas state institution and were determined to have met readiness standards by that institution.
- Coursework exemption: Transfer students, generally from out-of-state or private schools, who earned a C or better on required coursework as established by the state and UHCL.
- Transient status exemption: Students enrolling in coursework for personal enrichment, who are not pursuing undergraduate degrees.
- Military service exemption Military service exemption Military service exemption: Students serving on active duty as members of U.S. armed forces, Texas National Guard, a reserve component of the U.S. armed forces; or those who have served for at least three years preceding enrollment.
- Prior military service Prior military service Prior military service exemption exemption: Students who were honorably discharged, retired, or released from active duty as members of the U.S. armed forces, the Texas National Guard, or who served as members of a reserve component of the US armed forces on or after August 1, 1990.
 - Please note that an exemption from the TSI requirement is not automatic. Documentation of exemption qualification is required. Applicants may be required to provide test scores, transcripts, military documents or other appropriate documentation to be considered for a TSI exemption. Applicants should consult the Testing Center's website for the most recent TSI information.

Transfer Credit Information

Transfer of Undergraduate Credit

High School students who earned dual college or concurrent enrollment credit prior to graduation are considered Freshmen for admission purposes.

Evaluation of U.S. transfer work occurs for degree-seeking students after all official transcripts have been received in the Office of Admissions. The application of transfer credit toward a degree at the University cannot be determined until the transcript has been articulated and a degree plan is made; therefore, students should send college credit as soon as it is available on the official transcript. Domestic students with international documentation must submit official/original international documents required for admission to the Office of Admissions (official transcripts*, translations and syllabus/catalog information**, as applicable).

Program departments are responsible for developing degree plans. Students may refer to applicable degree plans that detail lower and upper-level degree requirements by specific program, for the conferral of degrees; or, they can refer to the online Transfer Credit Guide to review information on course equivalencies.

*If students wish to keep their original international document, they must make an appointment with an adviser in the Office of International Admissions and Programs, who will review the original document and make a certified copy to provide to the Office of Admissions for processing.

**Transfer credit will be processed during the first semester of enrollment, if all required documentation is received, including a syllabus, if required.

Credit by Examination

UHCL may award college credit for Advanced Placement examination (AP) and the College Level Examination Program (CLEP). The university will accept up to a maximum of 30 semester hours of test credit toward a bachelor's degree. To receive AP or CLEP credit, UHCL must receive official transcripts showing credit has been accepted at another regionally accredited institution of higher education or official score reports directly from the appropriate agency, prior to enrollment in corresponding college coursework.

International Baccalaureate

The International Baccalaureate Diplome Programme (IBDP) offers courses and examinations at the high school level. In accordance with Section 51.968 of the Texas Education Code, UHCL will grant a maximum of 24 semester credit hours in appropriate subject areas to entering freshmen for successful completion of this program. The institution may grant fewer than 24 semester credit hours, if students receive scores of less than four on examinations administered as part of the diploma program.

Students must submit official IBDP transcripts and diplomas in person or by mail to the Office of Admissions. All IB transcripts must be enclosed in the original sealed envelopes. Additional information about ordering IB transcripts can be obtained from the following website: http://www.ibo.org/iba/transcripts/

Transfer Credit Dispute

Transfer disputes, as defined by the Texas Higher Education Coordinating Board, may arise when a lower-level course is not accepted for credit by a Texas institution of higher education. Any dispute between institutions involving transfer of lower-level credit will be handled according to the guidelines and procedures established by the Coordinating Board. A copy of the Coordinating Board guidelines may be obtained in the Office of the Provost.

Transfer Appeals

Students can appeal transfer credit decisions by contacting the Office of Admissions and submitting a detailed explanation and supporting documentation (if applicable) regarding the basis of their request. An appeal of transfer credit will be reviewed within 10 working days from receipt.

Non-Traditional Credit

The Office of Admissions evaluates non-traditional learning experiences on the basis on supporting credentials and petitions submitted by students. Credit for courses taken through various non-collegiate organizations is based on recommendations from the American Council on Education (ACE). Recognized non-traditional credit will be treated as transfer credit and may be considered for admission. In some academic degree programs, this credit may not be accepted. Previous work, because of its nature and not its inherent quality, may be inapplicable to specific degrees. This determination is made within each department.

Credit for courses taken at military service training schools is based on the recommendations made in the Guide to the Evaluation of Educational Experience in the Armed Services. Students seeking military credit should submit an official transcript from AARTS, SMART or Coast Guard.

Non-traditional credit is not accepted for graduate-level work.

HB 269 Military Service Credit

HB 269 allows Texas universities to award course credit to undergraduate students for military service, if certain requirements are met. Eligible veterans can receive college credit for:

- · All required physical education courses needed for their degrees
- \cdot Up to an additional 12 semester credit hours of general elective coursework

Credit is awarded on the basis of service, not for any college-level courses that might have been taken while serving in the military. In order to be eligible to receive college credit for military services, students must have:

- Graduated from a public or private high school accredited by a generally recognized accrediting organization or from a high school operated by the U.S. Department of Defense
- Completed a minimum of two years of service in the armed services, unless discharged due to disability
- \cdot Been honorably discharged from the armed forces

Additional information regarding HB 269, including the process of applying to receive military service credit, can be found at www.uhcl.edu/militarycredit.

UHCL Transfer Degree Plans

University of Houston-Clear Lake has developed a series of articulation agreements with community colleges in the Houston area. Transfer degree plans are used to guide prospective students in choosing recommended coursework at their college and to aid them in transferring to UHCL. Students, who plan to attend or who are currently attending one of the following colleges, are encouraged to work closely with

the counseling offices at these institutions as they prepare to transfer. UHCL transfer degree plans may be obtained at each of these locations:

- · Alvin Community College
- · Brazosport College
- · College of the Mainland
- · Galveston College
- · Houston Community College
- · Lee College
- · Lone Star College System
- · San Jacinto College System
- · Wharton County Junior College

Registration and Records Services

Registration

Enrollment is necessary for every period of attendance at University of Houston–Clear Lake. The Office of the Registrar sends announcements to specify times and other instructions for completing the enrollment process. Registration is completed online by logging into E–Services at www.uhcl.edu/eservices. Please refer to the Academic Calendar online for Registration dates and deadlines. Students who need assistance with registration may visit the Student Assistance Center at the UHCL campus or Enrollment Services at Pearland. Registration is not complete until tuition and fees have been paid in full. If tuition and fee payments are not received by stated deadlines, payment will be considered late. Additional questions regarding registration should be directed to the Office of the Registrar.

Academic Advising

University of Houston–Clear Lake is committed to providing the most appropriate and effective academic direction, assistance and support for all students. At UHCL, there are two types of advisers: transfer advisers and academic advisers. The Office of Transfer Advising offers assistance to prospective and incoming transfer students who have earned more than 60 hours of college–level credit by providing a variety of pre–admission services, as well as assistance with course selection during the first semester of enrollment. Similarly, the academic advisers housed in the University Advising Center, work with freshmen and sophomore students who have not yet completed 60 hours of college–level coursework. The center provides comprehensive services to help students through a period of discovery and transition by helping clarify personal and educational goals; selecting or confirming their major based on interest

and skills; connecting students to available resources designed to ensure success at UHCL; and, assisting with the creation of an academic plan prior to the transition to college advisers.

College academic advisers are located within the individual colleges (Human Sciences and Humanities, Science and Engineering, Business, and Education), which provide further assistance regarding specific degree requirements for new and continuing students who have earned more than 60 hours of college-level coursework. Matters affecting degree requirements and graduation are best addressed by the professional advising staff and faculty working directly within individual academic areas. The relationship between students and advisers provides the opportunity to learn more about educational choices and objectives, degree requirements, academic policies and procedures, and university resources. When preparing for a meeting, students should set goals and plan to ask questions, so that academic progress and ultimate attainment of the university degree can be achieved successfully.

What students can expect from advisers:

- 1. Evaluation of students' transcripts
- 2. Adequate office hours and availability throughout the semester
- 3. Assistance with registration course selections
- 4. Accurate information regarding degree requirements and degree plans
- 5. Assistance with evaluation of syllabi/course descriptions to determine acceptabi coursework
- 6. Accurate audit of a CPS, upon request, to determine the students' progress toward graduation
- 7. Assistance identifying solutions to academic difficulties
- 8. Helpful referral to other university resources for additional assistance
- 9. Appropriate confidentiality
- 10. Respect, support and encouragement

What is expected of students:

- 1. Attend New Student Orientation
- 2. Learn who their advisers are and the location of the advising offices
- 3. Contact adviser before deviating from any requirements specified on the prepared degree plan
- 4. Contact their adviser for assistance BEFORE the issue becomes urgent
- 5. Keep informed of their academic progress and their degree plan each semester
- 6. Know the university and college requirements and policies that may affect them
- 7. Learn and make use of all resources on campus
- 8. Keep scheduled appointments
- 9. Follow through on adviser recommendations
- 10. Be responsible for planning course of study and fulfilling all requirements and procedures
- 11. Accept ultimate responsibility for personal decisions and actions
- 12. Respect and comply with deadlines and requests for needed academic documents

Preparation for a meeting with an adviser:

- 1. Check to make sure the adviser will be available
- 2. Bring a current degree plan
- 3. Have a list of questions and/or concerns to promote judicious use of time
- 4. Remind the adviser of previous discussions

Advising Offices

Office	Location	Contact
Transfer Advising	Student Services and Classroom Building, 1201	281-283-3068 transfer@uhcl.edu
College of Business	Bayou Building, 2111	281-283-3110 busadvoff@uhcl.edu
College of Education	Bayou Building, 1231	281-283-3600 education@uhcl.edu
College of Human Sciences and Humanities	Bayou Building, 1539	281-283-3333 hshadvising@uhcl.edu
College of Science and Engineering	Bayou Building, 3611	281-283-3711 cseadvising@uhcl.edu
Distance and Off-Campus Education	Pearland Campus, 140	281-212-1615 dlisted@uhcl.edu

More information on Academic Advising can be found at www.uhcl.edu/academics/advising/.

Degree-Seeking Versus Non-Degree-Seeking Status

Degree-seeking students must select courses complying with provisions of their Candidate Plan of Study (CPS). Undergraduate degree-seeking students are restricted to courses on the undergraduate level, designated by course numbers in the 1000, 2000, 3000 and 4000 range, unless they are within six hours of graduation, meet all other requirements as stated in the Undergraduate Enrollment in Graduate Courses section of the catalog and meet the specific requirements of the college in which the course is offered. The university is under no obligation to recognize courses taken prior to approval of a CPS, as applicable to any degree.

Non-degree-seeking students may register for courses on a space available basis. Several programs, however, restrict availability of classes to degree-seeking students. Contact the advising office in each college for additional information. Undergraduate non-degree-seeking students are restricted to courses at the 1000, 2000, 3000 or 4000 level. The university is under no obligation to recognize credits earned by non-degree-seeking students as applicable to any degree. Non-degree-seeking students are subject to the university's academic standards and do not differ from degree-seeking students in regard to the requirements of any other university policies. Non-degree students who have earned at least 12 credit

hours by the end of the current semester will have an advising hold placed to restrict future enrollment. The student and academic college adviser must make appropriate course selections or select a specific degree program before future enrollment will be allowed. Non-degree seeking students are not eligible for financial aid.

Transient students are classified as non-degree-seeking students and have the same registration restrictions as non-degree students. Additionally, transient students are admitted to the university for one semester of enrollment only and are not eligible for financial aid

Degree Plans

A student must file a degree plan no later than the end of the second regular semester immediately following the semester in which the student has earned a cumulative total of 45 or more semester hours (including transfer hours). Students who do not file a degree plan within this time frame will have a transcript hold placed on their account. The student will need to consult with an academic adviser as soon as possible to remove the hold. A degree plan is a statement of the course of study requirements that an undergraduate student at an institution of higher education must complete in order to be awarded a degree from the institution. The University of Houston–Clear Lake Advisement Report, which identifies the courses needed to earn a degree, will satisfy this requirement. At each registration, students will be required to acknowledge, prior to registering, that they have a degree plan and the courses they are completing are part of their declared major. This policy is consistent with the provisions of Section 51.9685 of the Texas Education Code.

Availability of Courses

The university does not guarantee that courses listed in this catalog will be offered in any given term or year. Registration for a particular section will be permitted only until available classroom space has been filled.

The university also reserves the right to cancel any course or section which, according to state policies, enrollment is deemed insufficient to split into classes that are over-enrolled and to change the instructor and/or classroom without advance notice.

Class Enrollment

Enrollment in a class is achieved only through proper registration or schedule revision procedures. Instructors receive students' names only by official notice from the Registrar. Students will not receive credit for courses for which they are not registered. Students are responsible for insuring that they have met any prerequisites prior to enrolling in any course. International students (F and J student visa

holders) are limited to three credit hours, per semester, of online coursework that may be counted toward full-time enrollment per the Department of Homeland Security. The UHCL catalog provides a complete listing of courses with descriptions that include prerequisites. Course prerequisites are also shown in the class schedule. Students who enroll for courses without having met the prerequisites may be dropped from the course.

Time Conflict Enrollment

Students are not permitted to enroll in two different courses that are scheduled to meet at the same or overlapping times.

Late Registration

Final schedule revisions (drop/add) and late registration will be permitted during the first week of classes of a long semester. The late registration and drop/add period for the summer terms is less than one week. Times and dates will be announced by the Office of the Registrar. No registrations or schedule changes will be permitted after Late Registration. A late registration fee will be charged to students who register during late registration. Students who have not paid by the payment deadline date will be charged a late payment fee. Please review the Academic Calendar published online for all enrollment related dates.

Census Date

As defined by the Texas Higher Education Coordinating Board (THECB), the census date is the date for official enrollment reporting. For long semesters (fall and spring), the census date is the 12th class day for regular sessions and is adjusted in accordance with THECB rules for all other sessions. The census date is the last day to drop without a record and the last day to request a change on residency status for that semester. Official verification of enrollment for a semester will begin on the day following the census date.

Registration Discrepancies

If students become aware of registration discrepancies, (i.e., they are not listed on the official class roster or their class schedules do not reflect the classes being attended), they must contact the Office of the Registrar in order to correct any discrepancies. Only the Office of the Registrar is authorized to make official changes in students' registration status.

Cancellation of Registration

Students may cancel their registration and be entitled to a full refund of tuition and refundable fees if they follow proper procedures through the Office of the Registrar before the first class day of the term. Requests for cancellations may be done through E-Services or in writing and received by the Office of the Registrar prior to the first class day of the term. Such notices may be faxed to the office at 281–283–2530 or submitted via email to registrar@uhcl.edu.

Auditing Courses

Application forms to audit a course may be obtained from the appropriate associate dean's office. A student ID will be required in order to register for classes. Contact the Office of Admissions at 281–283–2500 or admissions@uhcl.edu for assistance if a new student ID needs to be created. Registration to audit a course is on a space-available basis. Individuals may be given permission to audit courses only after the conclusion of the regular registration period and the determination that the student is eligible and space is available. Auditing status provides the privilege of class attendance only and does not include taking examinations, submitting papers, participating in laboratories, field work or receiving a grade in the course. Individuals auditing courses will pay the regular tuition, student services fees, specific course fees and other applicable fees indicated in this catalog. Audit students can make payment for audited classes in person at the Clear Lake and Pearland Student Business Services offices. Audit students must provide the approved Audit Application and completed Campus Audit Permit when making payment. Individuals with audit status will not be given credit status after having registered on an audit basis. Records of individuals who have audited courses will not be maintained by the university.

Fee Waiver for Senior Citizens to Audit Courses

As provided in the Texas Education Code, senior citizens, 65 years of age or older, may audit, on a space available basis any course offered without payment of tuition or fees. Applicants must provide evidence of age to Student Business Services when requesting waiver of fees.

Each college's Academic Advising office will be responsible for assisting senior citizens to determine course availability, approval of instructor, registration procedures and general auditing regulations. Applicants should contact the appropriate academic advising office for the course(s) in which they wish to audit.

College of Business Advising
College of Education Advising
College of Human Sciences and Humanities Advising
College of Science and Engineering Advising

Academic Record Services

Official student records reside and are maintained in the Office of the Registrar. Students are responsible for insuring the accuracy of their records. Such records include, but are not limited to, personal information, home address and phone number, degree status, career (level), major and grades.

Academic Record Changes

Students wishing to change their major must obtain the Request for Academic Record Change form from their academic adviser. Students wishing to change from degree-seeking to non-degree-seeking status should contact the Office of the Registrar for the appropriate application. Students wishing to change from non-degree-seeking to degree-seeking status or apply to a Certificate program must file a new application with the Office of Admissions. Changes made after the census date will be applicable to the next semester.

Personal Information Changes

University records of students' names and addresses are based on information given on the Application for Admission. Subsequent changes must be reported to the Office of the Registrar. Requests for name changes must be accompanied by supporting documentation. Please refer to the Personal Information Change form available online at www.uhcl.edu/registrar.

Any communication from the university mailed to the name and address or sent to the email address on record is considered to have been properly delivered.

Transcripts

Students may request official copies of their transcript from the Office of the Registrar. Transcript requests can be made online through student E-services, fax or mail. There is no additional charge for transcripts. Transcript requests by fax or by mail must include the following:

- The name of the student,
- · UHCL student ID,
- · A clear copy of a government issued photo ID,
- The number of copies requested,
- The address it is to be mailed to or whether it will be picked up,
- · A phone number where the student may be reached, and
- The signature of the student whose record is requested.

Requests without a verifiable signatures cannot be processed. Written requests can be mailed to University of Houston-Clear Lake, Office of the Registrar, 2700 Bay Area Boulevard, Houston, Texas 77058 or faxed to 281-283-2530. Telephone requests or e-mails will not be honored. For same day requests, please visit the Student Assistance Center on the UHCL campus or at the Enrollment Services counter at the Pearland Campus.

Students who have encumbrance holds placed on their permanent records will be denied transcript services until the specific obligations have been met.

UHCL transcripts contain only academic information and course work pursued at UHCL. Requests are limited to 10 copies per request form.

Transcripts from other institutions submitted to UHCL become the university's property and will not be reproduced and/or mailed to other institutions. Students may not obtain copies of their transcripts from other institutions. Transcripts from other institutions are destroyed five years after the last term of attendance.

Enrollment and Degree Verifications

The University of Houston-Clear Lake has authorized the National Student Clearinghouse to provide degree and enrollment verification through their EnrollmentVerify services. Students have access to print a proof-of-enrollment verification online through their E-services account. For more information about the National Student Clearinghouse, please visit www.uhcl.edu/registrar.

Student Notification of Rights under FERPA

The Family Educational Rights and Privacy Act (FERPA) afford eligible students certain rights with respect to their education records. (An "eligible student" under FERPA is a student who is 18 years of age or older or who attends a post-secondary institution.) These rights include:

1. The right to inspect and review the student's education records within 45 days after the day the University of Houston–Clear Lake receives a request for access. A student should submit to the registrar, dean, head of the academic department, or other appropriate official, a written request that identifies the record(s) the student wishes to inspect. The school official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the school official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

- 2. The right to request the amendment of the student's education records that the student believes is inaccurate, misleading, or otherwise in violation of the student's privacy rights under FERPA. A student who wishes to ask the school to amend a record should write the school official responsible for the record, clearly identify the part of the record the student wants changed, and specify why it should be changed.
 If the school decides not to amend the record as requested, the school will notify the student in
 - If the school decides not to amend the record as requested, the school will notify the student in writing of the decision and the student's right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
- 3. The right to provide written consent before the university discloses personally identifiable information (PII) from the student's education records, except to the extent that FERPA authorizes disclosure without consent.
 - The school discloses education records without a student's prior written consent under the FERPA exception for disclosure to school officials with legitimate educational interests. A school official is a person employed by the University of Houston–Clear Lake in an administrative, supervisory, academic, research, or support staff position (including law enforcement unit personnel and health staff); a person serving on the board of regents; or a student serving on an official committee, such as a disciplinary or grievance committee. A school official also may include a volunteer or contractor outside of the University of Houston–Clear Lake who performs an institutional service or function for which the school would otherwise use its own employees and who is under the direct control of the school with respect to the use and maintenance of PII from education records, such as an attorney, auditor, or collection agent or a student volunteering to assist another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibilities for the University of Houston–Clear Lake. The University of Houston–Clear Lake may disclose a student's education records to other institutions if the student seeks or intends to enroll in the other institution and the institution has requested the records.
- 4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by the school to comply with the requirements of FERPA. The name and address of the Office that administers FERPA is:

Family Policy Compliance Office U.S. Department of Education 400 Maryland Avenue, SW Washington, DC 20202

See the list below of the disclosures that post-secondary institutions may make without consent.

FERPA permits the disclosure of PII from students' education records, without consent of the student, if the disclosure meets certain conditions found in §99.31 of the FERPA regulations. Except for disclosures

to school officials, disclosures related to some judicial orders or lawfully issued subpoenas, disclosures of directory information, and disclosures to the student, §99.32 of FERPA regulations requires the institution to record the disclosure. Eligible students have a right to inspect and review the record of disclosures. A post-secondary institution may disclose PII from the education records without obtaining prior written consent of the student-

- To other school officials, including faculty members, within that school whom the school has determined to have legitimate educational interests. This includes contractors, consultants, volunteers, or other parties to whom the school has outsourced institutional services or functions, provided that the conditions listed in §99.31(a)(1)(i)(B)(1) (a)(1)(i)(B)(2) are met. (§99.31(a)(1))
- To officials of another school where the student seeks or intends to enroll, or where the student is already enrolled if the disclosure is for purposes related to the student's enrollment or transfer, subject to the requirements of \$99.34. (\$99.31(a)(2))
- To authorized representatives of the U. S. Comptroller General, the U. S. Attorney General, the U.S. Secretary of Education, or State and local educational authorities, such as a State post-secondary authority that is responsible for supervising the university's State-supported education programs. Disclosures under this provision may be made, subject to the requirements of §99.35, in connection with an audit or evaluation of Federal- or State-supported education programs, or for the enforcement of or compliance with Federal legal requirements that relate to those programs. These entities may make further disclosures of PII to outside entities that are designated by them as their authorized representatives to conduct any audit, evaluation, or enforcement or compliance activity on their behalf. (§99.31(a)(3) and 99.35)
- In connection with financial aid for which the student has applied or which the student has received, if the information is necessary to determine eligibility for the aid, determine the amount of the aid, determine the conditions of the aid, or enforce the terms and conditions of the aid. (§99.31(a)(4))
- To organizations conducting studies for, or on behalf of, the school, in order to: (a) develop, validate, or administer predictive tests; (b) administer student aid programs; or (c) improve instruction. (§99.31(a)(6))
- To accrediting organizations to carry out their accrediting functions. (§99.31(a)(7))
- \cdot To parents of an eligible student if the student is a dependent for IRS tax purposes. (§99.31(a)(8))
- To comply with a judicial order or lawfully issued subpoena. ($\S99.31(a)(9)$)
- To appropriate officials in connection with a health or safety emergency, subject to §99.36 (\$99.31(a)(10))
- Information the school has designated as "directory information" under §99.37 (§99.31(a)(11))
- To a victim of an alleged perpetrator of a crime of violence or a non-forcible sex offense, subject to the requirements of §99.39. The disclosure may only include the final results of the disciplinary proceeding with respect to that alleged crime or offense, regardless of the finding. (§99.31(a)(13))
- To the general public, the final results of a disciplinary proceeding, subject to the requirements of \$99.39, if the school determines the student is an alleged perpetrator of a crime of violence or non-

forcible sex offense and the student has committed a violation of the school's rules or policies with respect to the allegation made against him or her. (\$99.31(a)(14))

• To parents of a student regarding the student's violation of any Federal, State, or local law, or of any rule or policy of the school, governing the use or possession of alcohol or a controlled substance if the school determines the student committed a disciplinary violation and the student is under the age of 21. (§99.31(a)(15))

If you have any questions regarding these policies, please feel free to contact the Office of the Registrar at (281)283-2525 or via email at registrar@uhcl.edu.

Policy on Release of Student Records

The Family Educational Rights and Privacy Act (FERPA) of 1974 is a federal law stating (a) that a written institutional policy must be established and (b) that a statement of adopted procedures covering the privacy rights of students be made available. The law provides that institutions will maintain the confidentiality of student education records.

UHCL accords all the rights under the law to students who are declared independent. No one outside the institution shall have access to, nor will the institution disclose, any information from students' education records without the written consent of students except with exceptions permitted under the act. (See Student Notification of Rights Under FERPA).

Within UHCL, only those members individually or collectively acting in students' educational interest are allowed access to student education records. These members include personnel in the office of the president, senior vice president and provost, vice president for administration and finance, deans, associate deans, student services, computing services, student business services, accounting, career and counseling services, student life, health center, financial aid, member of academic, grade and honesty appeal committees and academic personnel within the limitations of their need to know.

At its discretion, the University of Houston-Clear Lake may provide "directory information" to the general public without student consent.

Directory information is defined by the University of Houston-Clear Lake as follows (within guidelines of the Family Educational Rights and Privacy Act of 1974):

- · Student name
- Address
- Telephone number
- · University e-mail address
- · Date and place of birth

- · Major field of study
- · Dates of attendance
- Classification
- · Hours enrolled
- · Date of graduation
- Photographs
- · Degrees and awards received
- · Most recent previous educational agency or institution attended
- Participation in officially recognized activities and sports

"Student" means a person who; (a) is currently enrolled at the University; (b) is accepted for admission or readmission to the University; (c) has been enrolled at the University in a prior semester or summer term and is eligible to continue enrollment in the semester or summer term that immediately follows; or (d) is attending an additional program sponsored by the University while that person is on campus. Students who do not wish that public information (including their name, address and phone number) be released can go online at www.uhcl.edu/eservices and select all information to be restricted from release (with the noted exceptions for Release to Publications) according to Family Educational Rights and Privacy Act of 1974 guidelines and policies.

The law provides students with the right to inspect and review information contained in their education records, to challenge the contents of their education records, to have a hearing if the outcome of the challenge is unsatisfactory and to submit explanatory statements for inclusion in their files if they feel the decisions of the hearing panel to be unacceptable. To review records, a student must make a request in writing to the Office of the Registrar. The request must identify the record or records he or she wishes to inspect. In compliance with FERPA, UHCL will provide the student's records for review within 45 days from the day the university receives the request.

Students may delegate access to their records to a 3rd Party. Students wishing to give individuals (such as parents) access to their records may complete in person an Authorization to Release Educational Records. This form can be completed in person at the following offices: Office of Financial Aid, Student Business Services, Student Assistance Center, or Academic advising offices.

Communication with Students

The university-assigned campus email address is the official means of communication for all student-related information and exchanges among academic and administrative offices.

Students should check their UHCL e-mail accounts regularly to receive information from university offices. For information regarding UHCL e-mail, or to log in, go to http://webmail.uhcl.edu. Students

have the ability to forward their UHCL e-mail account to a preferred e-mail account. Students interested in this option should visit University Computing and Telecommunications' website at www.uhcl.edu/uct.

From time-to-time, university offices may employ other means of communication. Those avenues of communications include texting, calling, and snail mail. In some circumstances, automated calling (typically referred to as "robocalls") and texting may be used to notify students of important deadlines.

If students do not wish to receive automated text messages or phone calls, students may call 1-855-502-7867 to "opt-out" of these communications. Students opting out may miss important deadlines which could jeopardize enrollment at the University of Houston-Clear Lake.

For additional information on opting out of automated text messages or phone calls, please contact the Office of the Registrar.

Tuition and Fees

The tuition and fees information provided is not intended to be comprehensive and is subject to change pending action taken by the Texas Legislature or University of Houston Board of Regents. Changes become effective on the date of enactment. The following information should be used only as a guide for estimating tuition and fees charges.

E-Mail as Official Communication

The university-assigned campus e-mail address is the official communication vehicle for all student information and exchanges among academic administrative offices. The following notifications will be sent via e-mail:

- · 1098T
- · Set Aside

Students should check their UHCL e-mail accounts regularly to receive information from Student Business Services as well as other university offices. For information regarding UHCL e-mail, or to log in, go to http://webmail.uhcl.edu.

Students have the ability to forward their UHCL e-mail account to a preferred e-mail account. Students interested in this option should visit University Computing and Telecommunications' website at www.uhcl.edu/uct.

Definitions and Regulations

Students are responsible for knowing the current financial regulations of the university. Current regulations are applicable to all students regardless of the date of enrollment. Interpretation or explanations contrary to the regulations of this catalog are not binding upon the university. The university reserves the right to modify any statement as required by unforeseen conditions or by legislative actions.

Fixed Tuition Plan

The Fixed Rate Tuition is a plan available only to undergraduate student admitted to and enrolled in a degree granting course of study at University of Houston–Clear Lake. The plan is available to resident and non–resident undergraduate students and will provide student a fixed tuition rate during the term of their agreement with UHCL. The intent and goal of the plan is to provide tuition predictability. Consequently, there is no guarantee that student will realize any tuition savings by participating in the plan.

Tuition

Students are assessed tuition according to residence classification and the number of semester credit hours for which they register, subject to the statutory provisions of House Bill No. 43, 62 Legislature:

- Residents of Texas will be charged tuition at the rate of \$50 per semester credit hour for students.
- Non-residents of Texas and foreign students will be charged tuition at the rate of \$465 per semester credit hour for students.

An alien who has been lawfully admitted for permanent residence in the United States shall be considered for residency based on the same regulations in effect for U.S. citizens. Aliens who are present in the United States on a temporary or student visa shall not be eligible for classification as residents.

Tuition Residence Regulations and Appeals

It is important for students to know whether they will be classified as residents of the state of Texas. Students who do not qualify as bona fide residents at the time they register must pay the non-resident tuition fee.

An official determination of the residence status of students is made in the Office of Admissions at the time the application for admission and support documents are received. If students expect a change in residence status prior to first registration, this should be indicated on the application. If a change in residence status occurs after submitting the application, students must inform the Office of Admissions.

Students have a continuing responsibility to register under and to maintain the correct residence classification.

If there is any question concerning eligibility for classification as a resident of Texas at the time of registration, or any time thereafter, it is the responsibility of students to consult with the Office of Admissions. All requests for reclassification should be submitted at least 30 days prior to the registration period in question, but no later than the census date. Requests or documents received after the census date of a given semester will be considered for the next semester.

Students who believe they have been misclassified may petition the Office of Admissions for reclassification. Students may be required to furnish evidence in support of an appeal.

General Residency Requirements

Summarized below are the general rules for meeting eligibility requirements in the state of Texas. Exceptions to these rules for military personnel, teachers of higher education and their dependents, scholarship recipients and other special programs are discussed in an online booklet titled "Rules and Regulations for Determining Residence Status" published annually by the Texas Higher Education Coordinating Board. The information may be viewed online through www.collegeforalltexans.com in the Get All The Facts section.

Residence of a Minor or Dependent: An individual who is 18 years of age or under or is a dependent and whose family has not resided in Texas for the 12-month period immediately preceding the date of registration shall be classified as a non-resident student regardless of whether he/she has become the legal ward of residents of Texas or has been adopted by residents of Texas while he/she is attending an educational institution in Texas, or within a 12-month period before attendance, or under circumstances indicating that the guardianship or adoption was for the purpose of obtaining status as a resident student. The legal residence of minors or dependent children is usually that of the parent with whom the individual spends the principal amount of time. Upon divorce of parents, residency is based on the residence of the parent who has legal custody or has claimed the minor for federal income tax purposes both at the time of enrollment and for the tax year preceding enrollment.

Individuals over 18: An individual who is 18 years of age or older, who is a legal U.S. permanent resident, who has come from outside Texas and who is gainfully employed in Texas for a 12-month period immediately preceding registration in an educational institution shall be classified as a resident student as long as he/she continues to maintain a legal residence in Texas. If such 12-month residence, however, can be shown not to have been for the purpose of establishing legal residence in the state but to have been for some other purpose, the individual is not entitled to be classified as a resident. A student enrolling in an institution of higher education prior to having resided in the state for 12 months immediately preceding time of enrollment will be classified as non-resident for tuition purposes.

Fees

Student Service Fee

The Student Service Fee, as authorized by state law, is required of all students. The income from this fee supports recreational activities, health and hospital services, artist and lecture series, cultural entertainment series, student publications, student government and other student services as authorized by state law.

Reinstatement Fee

The reinstatement fee is charged to students who are approved for reinstatement after being dropped/withdrawn from classes for non-payment of tuition and fees.

Credit Card Processing Fee

Texas Education Code Section 54.5011 authorizes institution to charge an amount reasonable and necessary to reimburse the University, for expenses incurred by the university in processing credit card transaction or a debit card that is processed as a credit card. The current credit card processing fee rate is 1.45% and will apply to payments that are related to student tuition and fees only.

Recreation and Wellness Facility Fee

This fee may be used only for the purpose of financing, constructing, operating, maintaining, improving, and equipping a recreation and wellness facility and for the operating recreation and wellness programs at the University of Houston-Clear Lake.

SOAR Fee

SOAR (Student Orientation, Advising, and Registration) Fee---New students who are admitted for the first time in college or who are admitted to the University with less than 30 semester credit hours will be required to attend an orientation session titled – Student Orientation and Registration (SOAR). Each student will be required to pay \$60.00 at the time they register for the orientation. Guests will be required to pay \$20.00 per guest. This fee is effective beginning with the spring 2016 term.

Orientation Fee

This one time fee funds costs for the new student orientation programs.

Tuition Designated Fee

The Tuition Designated Fee is required of all students, graduate or undergraduate, resident or nonresident, enrolling in higher education institutions. As authorized by state law House Bill 3015 in the 78th Legislature in 2003, the university governing boards have been authorized the flexibility to

"charge any student an amount designated as tuition that the governing board considers necessary for the effective operation of the institution."

Parking Fee

A Parking Fee of \$85 for an annual permit, or \$50 for each fall and each spring, and \$35 for the summer semester, will be assessed to students who operate motor vehicles on the campus or on properties leased by the university. Proof of ownership (current license receipts or titles for the vehicles) may be required. Refer to the Parking and Traffic Regulations page at www.uhcl.edu/parking for additional information.

Any vehicle not having a valid UHCL permit will be ticketed unless special arrangements have been made with the Parking Management Office to park on campus without such permit.

Lost or stolen parking permits must be reported at https://uhclparking.t2hosted.com/cmn/index.aspx so that a replacement permit may be purchased. Lost or stolen permits may be purchased at a cost of \$20.00 at https://uhclparking.t2hosted.com/cmn/index.aspx.

Academic Record Fee

The proceeds from the Academic Record Fee shall be used to cover the costs of maintaining online registraton system components and cover the costs of university publications and reproduction of transcripts.

Extended Access and Support Fee

The University of Houston Board of Regents has authorized the UH System universities to charge a fee to support Distance Education and Off-Campus Instructional programs. The revenue from the Extended Access and Support Fee will support these programs, including Web-enhanced, Web-based courses, and marketing. The charge will be \$7 per credit hour, up to a maximum of \$63 per semester for all students registering for classes.

Information Resource Fee

The Information Resource Fee will be used to provide operational and personnel support and resources for the Neumann Library and for the UHCL Pearland Campus Library. The libraries provide students with a learning environment that includes instructional services and research material in print, video, and electronic forms. Additionally this fee will be used to provide students with access to computing facilities for activities and uses that are part of the regularly scheduled academic functions of the university and which are related to instructional activities, lectures, homework projects and provisions of the learning environment.

Student Center Fee

A fee charged for the sole purpose of financing, constructing, operating, maintaining and improving a student center for UHCL. This fee will pay for expanded student organizational space, more informal space for students (i.e., lounges, study rooms, gathering spaces), multifunctional space, space for meditation, recreational/exercise facilities, maintenance and operation of the new building and renovations to existing spaces.

Designated Differential Tuition

The Designated Differential Tuition (DDT) is charged separately by the colleges in order to improve and enhance resources available to students.

The College of Business uses its DDT to hire full-time faculty to facilitate meeting the faculty sufficiency and qualifications standards for AACSB International business college accreditation.

The College of Human Sciences and Humanities uses its DDT to increase and improve resources available by hiring more full-time faculty and improving the instruction of adjunct faculty.

The College of Education uses its DDT to maintain and improve programs by hiring additional faculty and providing student financial support.

The College of Science and Engineering uses its DDT to hire more full-time faculty and teaching assistants and to buy and maintain state of the art equipment for use in labs and classrooms.

Tuition Recovery Fee

Undergraduate students, who were first-time freshmen between fall 1999 and summer 2006 that exceed more than 45 semester credit hours beyond their state approved degree plan and undergraduate students, who are first-time freshmen beginning fall 2006 or subsequent terms that exceed more than 30 semester credit hours beyond their state approved degree plan, are subject to a tuition recovery fee of \$130 per credit hour to cover the student's educational costs. For more information, refer to Excessive Hours.

Three-peat Fee for Undergraduate Hours

An additional tuition amount of \$130 will be charged for each undergraduate credit hour for a course taken for the third time at UHCL (\$390 per 3 hour course). This fee also applies to any International or Non-Resident student who pays Texas resident tuition rates.

International Education Fee

The International Education Fee of \$2 is assessed to each student in order to provide scholarship support for those who participate in study abroad programs.

BUS Computer Support Fee

This fee supports labs for dedicated College of Business use.

Schedule of Charges and Special Fees

The following Schedule of Charges and Special Fees shall apply, where applicable, to all students at UHCL. These tuition and fee charges are assessed according to the number of semester credit hours for which students enroll and are payable at the time of registration. Students are not registered and are not entitled to university privileges until their tuition and fees have been paid in full. If payment is made by check or money order, such check or money order must be payable to the University of Houston-Clear Lake.

The charges quoted are those authorized at the time of publication of this catalog but are subject to change without notice as necessitated by university or legislative actions. Questions should be directed to Student Business Services.

Special Fees

Fee	Amount In U.S. Dollars
Academic Record Fee	28
Alumni Donation	1
Certificate, Teacher	75
Certificate, Professional	75
Cooperative Education	75
Differential Designated Tuition (BUS) - Undergraduate	10
Differential Designated Tuition (HSH) - Undergraduate	5
Differential Designated Tuition (SCE) - Undergraduate	5
Extended Access Fee	7/hr - 63/max
Duplicate Fee Statement, each	3
Duplicate Diploma	25
Excessive Undergraduate Hours - 3 Peat (\$390 per 3 hour course)	130/hr
Field trip, each, when required for any given course; variable amount sufficient to defray the cost of the trip.	Variable
Former Student File Reactivation Application (not enrolled for at least one year)	45
Graduation Application (includes diploma but not cap/gown)	80
Information Resource Fee	26/hr - 312/max
International Education Fee	2

Fee	Amount In U.S. Dollars
International Student Insurance (annual)	2148
International Student Application/Evaluation	75
International Student Records Processing (per semester)	65
Internship	30 - 72
Laboratory, per course	Variable
Late Payment	50
Late Registration	50
Matriculation (for withdrawal prior to first class day)	15
New Student Orientation	50/1-time
Parking (annual)	85
Parking (per long term)	50
Parking (summer)	35
Recreation and Wellness Center Fee	110 per term
Reinstatement Fee	200
Returned check charge, per check	20
SOAR (Student Orientation, Advising, Registration) Fee	60 for student/20 per guest
Special course fee, when required; an amount sufficient to defray the cost of materials and/or supplies required. May include malpractice insurance.	Variable
Student Center Fee	30
Student Service Fee (max of \$234)	39/hour
Tuition Recovery	130
Undergraduate Studies Application	45
Examination Fees	Variable

Variable Tuition and Fee Schedule for Undergraduate Students

CR HR	RES UG	NR/F UG	TUI DESUG	TUI DES NR/F UG	ST SVC	INFO RES	REC WELL	EXT ACC	INT EDU	ST CENT	ACDM RCRD	R-UG TOTAL	NR/F UG TOTAL
1	50	465	160	268	39	26	110	7	2	30	28	452	975
2	100	930	320	536	78	52	110	14	2	30	28	734	1,780
3	150	1,395	480	804	117	78	110	21	2	30	28	1,016	2,585
4	200	1,860	640	1,072	156	104	110	28	2	30	28	1,298	3,390
5	250	2,325	800	1,340	195	130	110	35	2	30	28	1,580	4,195

CR HR	RES UG	NR/F UG	TUI DESUG	TUI DES NR/F UG	ST SVC	INFO RES	REC WELL	EXT ACC	INT EDU	ST CENT	ACDM RCRD	R-UG TOTAL	NR/F UG TOTAL
6	300	2,790	960	1,608	234	156	110	42	2	30	28	1,862	5,000
7	350	3,255	1,120	1,876	234	182	110	49	2	30	28	2,105	5,766
8	400	3,720	1,280	2,144	234	208	110	56	2	30	28	2,348	6,532
9	450	4,185	1,440	2,412	234	234	110	63	2	30	28	2,591	7,298
10	500	4,650	1,600	2,680	234	260	110	63	2	30	28	2,827	8,057
11	550	5,115	1,760	2,948	234	286	110	63	2	30	28	3,063	8,816
12	600	5,580	1,920	3,216	234	312	110	63	2	30	28	3,299	9,575
13	650	6,045	2,080	3,484	234	312	110	63	2	30	28	3,509	10,308
14	700	6,510	2,240	3,752	234	312	110	63	2	30	28	3,719	11,041
15	750	6,975	2,400	4,020	234	312	110	63	2	30	28	3,929	11,774
16	800	7,440	2,560	4,288	234	312	110	63	2	30	28	4,139	12,507
17	850	7,905	2,720	4,556	234	312	110	63	2	30	28	4,349	13,240
18	900	8,370	2,880	4,824	234	312	110	63	2	30	28	4,559	13,973
19	950	8,835	3,040	5,092	234	312	110	63	2	30	28	4,769	14,706
20	1,000	9,300	3,200	5,360	234	312	110	63	2	30	28	4,979	15,439
21	1,050	9,765	3,360	5,628	234	312	110	63	2	30	28	5,189	16,172
22	1,100	10,230	3,520	5,896	234	312	110	63	2	30	28	5,399	16,905
23	1,150	10,695	3,680	6,164	234	312	110	63	2	30	28	5,609	17,638
24	1,200	11,160	3,840	6,432	234	312	110	63	2	30	28	5,819	18,371
25	1,250	11,625	4,000	6,700	234	312	110	63	2	30	28	6,029	19,104
26	1,300	12,090	4,160	6,968	234	312	110	63	2	30	28	6,239	19,837
27	1,350	12,555	4,320	7,236	234	312	110	63	2	30	28	6,449	20,570
28	1,400	13,020	4,480	7,504	234	312	110	63	2	30	28	6,659	21,303
29	1,450	13,485	4,640	7,772	234	312	110	63	2	30	28	6,869	22,036
30	1,500	13,950	4,800	8,040	234	312	110	63	2	30	28	7,079	22,769

^{*}The table above does not include student insurance, international student fee, special course fees, differential tuition, or parking. The University may change tuition rates and other charges without notice when so directed by the Board of Regents or the State of Texas.

Fee Schedule Codes

Abbrevation	Definition
CR HR	Semester Credit Hour
RES UG	Texas Residents
NR/F UG	Non-residents
TUI DES UG	Tuition Designated Residents
ST SVC	Student Service
INFO RES	Information Resource Fee
ACDM RCRD	Academic Record Fee
TUI DES NR/F UG	Tuition Designated Non-Residents
EXT ACC	Extended Access Support
INT EDU	International Education Fee
ST CENT	Student Center
REC WELL	Recreation and Wellness Center Fee

Payment Plans Available for payment of Tuition and Fees

Installment Plan

At the time of original registration UHCL students may pay their tuition and fees in full or they may elect a four-payment option (one quarter of tuition and fees at time of registration and the remaining balance split in three equal installments). There is a \$15 non-refundable fee for the multiple payment plan. The installment plan is not available for summer semesters. Courses added after the original registration period will adjust into the installment plan and an additional amount may be due depending on the add/drop activity.

Subsequent dates of payments will be listed on the fee statement. Students are responsible for all installment payments being made on time. Additional payment notices are not mailed. A \$10 late fee is charged for each late installment. Students who do not meet installment payment deadlines will have their records encumbered until all fees and penalties have been paid. At semester's end, any students who have not fulfilled their financial obligation on the installment contract will have their records encumbered and no grades or transcripts will be issued. There will be a \$50 default fee attached to the existing debt. In order for students to be eligible for enrollment in subsequent semesters and have the encumbrance removed from their records, all penalties and contract balances must be paid in full.

Short Term Loan

At the time of original registration at UHCL students may pay their tuition and fees in full or they may elect a two-payment option (one quarter of tuition and fees due at the time of registration and the remaining amount due later in the term). There is a \$15 non-refundable fee for the payment plan. Courses added after the original registration period will adjust into the payment plan and an additional amount may be due depending on add/drop activity.

Subsequent due date of remaining payment will be listed in the student's E-Services account under the "charges due" tab. Additional payment notices are not mailed. The Short Term Loan bears a five per cent (5%) interest per annum. Students who do not meet the final payment deadline will have their records encumbered until all fees and penalties have been paid. At semester's end, any students who have not fulfilled their financial obligation on the Short Term Loan contract will have their records encumbered and no grades or transcripts will be issued. In order for students to be eligible for enrollment in subsequent semesters and have the encumbrance removed from their records, all penalties and contract balances must be paid in full.

Rebates or Exemptions from Tuition and Fees

The statutes of the state of Texas describe certain instances in which students may be exempted from tuition and/or fees. The various types of exemptions and the Tuition Rebate Program are described below. In the case of exemptions, students have the responsibility to initiate the action of applying for an exemption through the Office of Financial Aid and to provide evidence that all conditions required for the exemption have been met. Until such time as the exemption is established, students will be required to pay all tuition and fees. Students should apply to the Office of Financial Aid at least one month prior to registration for the term in which they plan to utilize the exemption provision, but in all cases such requests must be received no later than the census date of any semester to be effective for that semester. For more information contact the Office of Financial Aid. In the case of a rebate, the student must apply for the rebate at the time of graduation in the Office of Registrar. Once the rebate is verified by the Office of Registrar, the refund will be issued by Student Business Services.

Tuition Rebate for Undergraduates

Tuition rebates to a maximum of \$1000 are available for qualified students who have attempted no more than three hours in excess of the minimum number of semester credit hours required to complete the degree as defined by the catalog under which they graduated. Certain restrictions apply:

- Students must have enrolled for the first time in an institution of higher education in the fall of 1997 semester or later.
- Students must be requesting a rebate for work related to a first baccalaureate degree received from a Texas public university.

• Students must have attempted all course work in Texas resident status.

For more information, see the Office of Registrar. Qualified students must apply for the rebate at the time they apply for graduation.

Texas Veterans (Hazlewood Act)

Legal residents of Texas may be exempted from tuition and certain required fees under the Hazlewood Act. Texas veterans must meet the eligibility criteria listed in the Financial Aid section of this catalog. UHCL Hazlewood applications should be submitted to the UHCL Office of Veterans Affairs 30 days prior to registration.

Children of Texas Veterans

Exemption from payment of tuition and certain fees extends to children of members of the armed forces who were killed in action or died while in service in World War II or in the Korean conflict or in any subsequent actions, and to orphans of members of the Texas National Guard and the Texas Air National Guard killed since January 1, 1946 while on extended active duty.

Children of Disabled Public Employees

Children of certain eligible firefighters, peace officers, employees of the Texas Department of Criminal Justice and game wardens who have suffered injury resulting in death or disability sustained in the line of duty may, under certain conditions, be exempted from payment of tuition and certain fees.

Deaf or Blind Students

Deaf or blind persons who are Texas residents may, under certain conditions, be exempted from payment of tuition and certain fees.

Children of Prisoners of War or of Persons Missing in Action

Dependent children under 18 years of age, or persons under 25 years of age who receive the majority of their support from their parent(s) may be exempted from the payment of tuition and certain fees if they are the dependent children of any person who is a domiciliary of Texas on active duty in the armed forces of the United States, and who at the time of registration is classified by the Department of Defense as a prisoner of war or as missing in action.

Peace Officer Waiver

If you are employed as a full-time Peace Officer by the state of Texas or one of its political subdivisions, and you are enrolled in our B.S. in Criminology degree program, you may be eligible for a tuition and laboratory fee exemption. This exemption applies to selected course work. If you are a volunteer Peace-Officer you do not qualify for the exemption.

Firefighter Waiver

If you are employed as a firefighter by a political subdivision of Texas, or are an active member of an organized volunteer fire department, and are enrolled in our B.S. in Public Service Leadership degree program, you may be eligible for a tuition and laboratory fee exemption. This exemption applies to selected course work.

Good Neighbor Waiver

Qualified native-born students from the other nations of the American hemisphere and from Latin American countries designated by the United States Department of State may be exempt from the payment of certain tuition and fees.

Child of Protective Services or Child of Foster Care or Other Residential Care

Exemption for payment of tuition and fees for students meeting the qualifications outlined in Texas Education Code 54.366 or 54.367.

Vocational Rehabilitation

The Texas Department of Assistive and Rehabilitative Services (DARS) offers assistance for tuition and required fees to students having certain physical or emotional disabilities, provided vocational objectives selected by the individuals with disabilities have been approved by appropriate representatives of DARS. Through this state agency, other rehabilitation services are available to assist persons with disabilities to become employable. Applications for assistance should be made to the nearest DARS office.

Refund Policies

Refunds on Withdrawals

A student is considered Withdrawn if they are no longer enrolled in the current term. Students receiving financial aid are advised to contact the Office of Financial Aid prior to making changes in their enrollment status. Student services and privileges, including library services and use of computer labs, terminate when a student withdraws from the university. Class days are counted from the first official class day of a semester or session and include weekdays and Saturdays. Refunds will first be applied to outstanding obligations.

Students who pay tuition and fees for any term and who subsequently cancel their registration through the Office of Registrar prior to the first day of classes for that term as specified in the academic calendar are entitled to a full refund minus a \$15 matriculation fee and the \$28 Academic Record Fee and any other non-refundable fees.

Students who officially withdraw from the university after classes begin may be eligible for a partial refund of tuition and fees. The applicable refund is based upon the courses in which students are enrolled on the date of official withdrawal. Refunds are based on the amount billed and not what has been paid.

Once a student registers, he or she is responsible for the total fees assessed regardless of whether the installment or short term loan option is used. Refund percentages are applied to total fees assessed and not the amount paid. This means if you withdraw after making your first payment of tuition and fees, but after the 100% withdrawal period, a credit balance will first be applied to any outstanding amount due.

Withdrawal from courses or from the university can be made through E-Services prior to the deadline stated in the academic calendar. Withdrawals in writing are effective on date of receipt. Letters can be faxed to the Office of Registrar at 281–283–2530. The university reserves the right to deduct from the refund any outstanding financial obligations to the university.

No refund will be made to students who leave the university without officially withdrawing. Refunds are made in accordance with this schedule:

Fall and Spring Semesters (Regular Session)

- Prior to the 1st class day 100%
- On or before the 5th class day 80%
- 6th through 10th class day 70%
- 11th through 15th class day 50%
- · 16th through 20th class day 25%
- · 21st class day and thereafter No Refund

All Semesters (Eight and Nine Week Sessions)

- Prior to the 1st class day 100%
- On or before the 3rd class day 80%
- · 4th through 6th class day 50%
- · 7th day and thereafter No Refund

Summer Semester (Three, Four, and Five Week Sessions)

- Prior to the 1st class day 100%
- · On the first class day 80%
- · On the 2nd class day 50%
- · 3rd class day and thereafter No Refund

Class days, including Saturdays, are counted from the first day that classes begin at the university as indicated in the academic calendar for that semester. Refunds are not made immediately upon official

withdrawal. They will be processed after completion of all university registrations for that semester. Refunds will be processed through BankMobile or credit card used for payment.

Refunds on Dropped Courses

Dropped courses refunds only apply when one or more classes from a student's schedule are removed but remain enrolled in at least one course. Students receiving financial aid are advised to contact the Office of Financial Aid prior to making changes in their enrollment status. Reducing semester hours to zero is considered a withdrawal and the Refund on Withdrawals schedule will be followed. Please refer the the Refund on Withdrawals section of the catalog.

Students who drop classes within the first 12 class days of a 15-week session; within the first four class days of an 8-week or 9-week session or within the first two class days of a 3-week, 4-week and 5-week session and who remain enrolled in the university for that semester may be refunded the applicable tuition and fees for classes dropped. No refunds will be made for courses dropped after the 12th class day during a 15-week session, the 4th class day of an 8-week or 9-week session, or the 2nd class day of a 3-week, 4-week and 5-week session. Refunds will be processed through BankMobile or credit card used for payment. UHCL has partnered with BankMobile to provide disbursement services for financial aid and tuition refunds. The refunds quoted are those authorized at the time of publication of this catalog but are subject to change without notice as necessitated by the university or legislative action.

Payment Agreement

The state of Texas requires that any student unable to pay their tuition and fees in full by the due date established by the university must enter into a payment plan with the university. The payment agreement constitutes a contract between the student and the university wherein the student acknowledges financial obligation to the university in writing (electronic signature) through their self-service student account.

Student Financial Responsibility

Students must meet financial responsibilities to the university. Writing checks on accounts with insufficient funds and failure to meet all financial obligations are considered a lack of financial responsibility.

Students forfeit check writing and cashing privileges for the balance of the academic year if they write two bad checks (unless due to bank error) to the university for tuition and fees, to the university offices for payment of other university obligations or for check cashing purposes.

Students who have written a bad check to the university (unless due to bank error) will be assessed a \$20 service charge. It is the responsibility of students to present evidence of bank error. Encumbrances and returned checks must be cleared by cash or cashier's check. Returned checks will not be re-deposited.

The university will not accept two-party checks for payment or check cashing privileges.

Students must be in good financial standing with the university at all times. Failure to meet financial responsibilities to the university may subject students to withdrawal and disqualification for registration for a subsequent term. Transcripts will not be given to or on behalf of students until all financial responsibilities have been met. Failure to clear outstanding debts could result in the debt being placed with a collection agency, additional collection fees charged, and being reported to the Credit Bureau of Greater Houston.

Colleges and Departments

College of Business

Mission

The mission of the College of Business (BUS) at the University of Houston-Clear Lake is to provide quality lifelong education for the Houston/Galveston metropolitan population. Programs serve both full-time students and working professionals in the region. Instruction is designed for flexible hours and fosters development of business skills with global applicability. Faculty pursue a blend of research contributing to knowledge in professional practice, innovative pedagogy and discipline-based scholarship.

Accreditations and Approvals

The graduate and undergraduate accounting and business administration degrees in the College of Business are accredited by the AACSB International – The Association to Advance Collegiate Schools of Business. A variety of undergraduate and graduate degrees are offered in the business discipline. Students are eligible to apply for jobs through the Cooperative Education Program, which is designed to prepare students for careers by integrating paid work experience with academic study.

Around 1 percent of the world's business schools have earned business and separate accounting accreditation from the Association to Advance Collegiate Schools of Business International – and we're one of them. Both our undergraduate and graduate programs have achieved AACSB accreditation, including our online MBA program.

We also consistently rank in U.S. News and World Report's list of top online graduate business programs and online MBA programs around the nation.

Departments

- Department of Accounting
- $\boldsymbol{\cdot}$ Department of Decision Sciences, Economics, Finance, and Marketing
- Department of Management
- Department of Healthcare Administration
- Department of Management Information Systems

Contact Us

Office of the Dean Phone: 281-283-3100

Web: www.uhcl.edu/business

Bayou Building 2239

Office of Academic Advising

Phone: 281-283-3110

Email: busadvoff@uhcl.edu

Web: www.uhcl.edu/business/academic-advising

Bayou Building 2111

Department of Accounting

University of Houston-Clear Lake's Department of Accounting offers you both a robust foundation in contemporary accounting and business principles and the well-rounded education that modern employers desire. As one of only two universities in Houston with an AACSB International accreditation specifically for accounting, UHCL can give you the edge you need as you prepare for a career in auditing, forensic accounting, financial accounting, financial analysis, internal auditing, managerial accounting or tax planning.

Undergraduate Degrees

- · Accounting B.S.
- Professional Accounting Integrated B.S. and M.S.
- Professional Accounting Integrated B.S./M.S. with a Concentration in Management Information Systems

Department of Decision Sciences, Economics, Finance and Marketing

Taught by professionals with vast real-world knowledge and practical experience, students who enroll in a degree program with the Department of Decision Sciences, Economics, Finance and Marketing in University of Houston-Clear Lake's College of Business will receive sound management principles and the skills necessary for professional advancement. You will gain valuable insights throughout your coursework at UHCL, complete with hands-on learning opportunities and a highly motivated faculty to support and assist every step of the way.

Undergraduate Degrees

- Marketing B.S.
- · Finance B.S.

Minors

- · Minor in Economics
- · Minor in Marketing

Department of Healthcare Administration

Addressing the growing need for more qualified healthcare administrators nationwide, the Department of Healthcare Administration in University of Houston–Clear Lake's College of Business prepares students for long–term career success. We will ensure that you are ready for a management role in a hospital, insurance provider, pharmaceutical company, physician practice or public health advocacy group. Our prime location in the greater Houston area gives you access to one of the leading healthcare centers in the world and the leaders who helped create it.

Undergraduate Degrees

- · Healthcare Administration B.S.
- · Healthcare Services B.A.S.

Department of Management

In today's ultra-competitive job market, you deserve the best possible education as you aim for a long career in management. Begin by pursuing a degree in the Department of Management at University of Clear Lake. You will acquire the necessary leadership, analytical and problem-solving skills by completing coursework that focuses on entrepreneurship, small business management and administration, as well as electives including dispute resolution, organizational communication, human resources, and employee training. You will graduate with the expertise and training required to face a complex collection of challenges, whether financial, legal, environmental, human or material.

Undergraduate Degrees

- · Environmental Management B.S.
- General Business B.S.
- · Legal Studies B.S.
- Management B.S.

Department of Management Information Systems

As the reliance upon technology increases, so does the demand for qualified management information systems specialists who can maintain and enhance the infrastructure for that technology. In the Department of Management Information Systems for the College of Business at University of Houston–Clear Lake, you'll acquire the education that will equip you for an array of highly coveted tech positions across all industries. Coursework in our degree programs focus on the hands–on applications of both hardware and software.

Undergraduate Degrees

· Management Information Systems B.S.

College of Education

Building on a solid base of liberal arts and general studies, the College of Education (COE) seeks to produce thoughtful, skilled and humane educators. Numerous plans are available to help students develop into highly qualified professionals.

The COE offers an extensive choice of certification plans in undergraduate specializations. Many alumni find employment in a variety of educational settings, while others pursue careers in industry, government, independent practice or consulting. Plans in the COE are fully approved by the State Board for Educator Certification (SBEC)/Texas Education Agency (TEA). The University of Houston–Clear Lake (UHCL) is accredited by the Council for the Accreditation of Educator Preparation (CAEP).

The COE believes that teaching, learning and educational leadership should be learner-centered. Whether referring to university pre-service teachers, in-service teachers pursuing advanced studies, others in professional educator roles or the learners influenced by these educators, the focus of teaching and learning is on the learner. This conceptual framework guides the way in which the COE structures its courses and degree plans. This is reflected in the COE mission statement. It is also the central theme reinforced in classes. The vision of the COE is of a learner-centered community in which success for all students is paramount.

Mission

The mission of the COE is to prepare outstanding educators and leaders in education through achievement of the highest standards of knowledge, skills and dispositions to assist all students in learning. The mission is accomplished by promoting:

• Excellence and innovation in learner-centered teaching and learning for all

- The value and understanding of all types of diversity
- · Professional and personal integrity
- · Effective use of technologies
- · Partnerships with and service to the community
- · Ongoing assessment for both candidate and program improvement
- · Research to expand the knowledge base for teaching and learning

Although each of these is critically central to the goals and directions of the COE at UHCL, the first, "...promoting excellence and innovation in learner-centered teaching and learning for all...", is the most succinct statement of what the faculty within the COE value.

Departments

- · Department of Counseling, Special Education, and Diversity
- Department of Curriculum and Instruction
- Department of Educational Leadership and Policy Analysis
- Department of Literacy, Library, and Learning Technologies

Contact Us

Office of the Dean Phone: 281-283-3500

Web: www.uhcl.edu/education

Bayou Building 1231

Office of the Associate Dean

Phone: 281-283-3620 Bayou Building 1231

Office of Academic Advising

Phone: 281-283-3615

Email: education@uhcl.edu

Web: www.uhcl.edu/education/advising

Bayou Building 1231

Center for Professional Development of Teachers

(CPDT)

Phone: 281-283-3612 Bayou Buidling 1231

Center for Educational Programs

(CEP)

Phone: 281-283-3530 Arbor Building 1300

Office of Educator Certification

Phone: 281-283-3618 Bayou Building 1231

Office of State Assessments Phone: 281-283-3600 Bayou Building 1231

Research Center for Language and Culture

Phone: 281-283-3580 Bayou Building 1325

Learning Resources Review Center

Phone: 281-283-3900 Bayou Building 3402

Council for the Accreditation of Educator Preparation www.caepnet.org

New Teachers Online (NTOL)

Accreditation and Accountability

University of Houston–Clear Lake (UHCL) is accredited by the Southern Association of Colleges and Schools (SACS). Unique to education itself are other accrediting and accountability bodies with strict guidelines and standards that must be met in order for the College of Education (COE) at UHCL to recommend educators for teaching certificates, supplemental certificates, master teacher certificates and certificates requiring a master's degree. Below is a brief description of the accountability and accreditation measures of the U.S. Department of Education (USDE), the Council for the Accreditation of Educator Preparation (CAEP) and the State Board for Educator Certification (SBEC)/Texas Education Agency (TEA) and how the university measures up to those criteria and standards.

Department of Education Accountability

The Higher Education Opportunity Act (Public Law 110–315) (HEOA) was enacted on August 14, 2008, and reauthorizes the Higher Education Act of 1965, as amended. The Act established a reporting system

for the U.S. Department of Education (USDoE) to collect information annually on the quality of the teacher training programs of states and institutions of higher education. Within Title II, the USDoE mandates federal accountability measures to determine how well all higher education institutions prepare teachers, what states require of individuals before they are allowed to teach and how institutions and states are raising their standards to provide "highly qualified" educators. The USDoE administers Title II and gathers information from all the states each October for distribution in April of the following year. Institutions are ranked on aggregate and summary pass rates. The rankings show the percentages of program completers who demonstrated subject–matter competency by passing a required state assessment.

The pass rates of those who completed their teacher certification at UHCL during the 2015–2016 academic year were evaluated and compared to the pass rates of the state and national groups of program completers. At UHCL, students from 2015–2016 had an overall passing rate of 100% on all of their state assessments. For a complete summary of all pass rates, see the federal Title II reporting Web site at https://title2.ed.gov/default.asp.

CAEP Accreditation

The Council for the Accreditation of Educator Preparation (CAEP) is the largest and most recognized accrediting body for teacher education in the United States. University of Houston–Clear Lake (UHCL) is one of only 20 Texas higher education institutions to be accredited by NCATE or CAEP. CAEP (formerly NCATE) has rigorous academic guidelines for initial and advanced levels of educator certification. NCATE site visitors conducted a review of COE's initial and advanced level programs in spring 2014 and found no areas for improvement.

SBEC/TEA Accreditation

University of Houston-Clear Lake (UHCL) is one of 150 educator preparation programs in the State of Texas that are accredited to recommend educators for certificates. The State Board for Educator Certification (SBEC)/Texas Education Agency (TEA) implements stringent guidelines and standards for initial and advanced levels of educator certification. TEA accreditation for 2015–2016 was based on candidate pass rate performance on state assessments. TEA's last announcement of UHCL's overall final pass rate on all state assessments was 100%. For 2017–2018, programs are evaluated on pass rates, principal appraisals of beginning teachers and on the field supervision support given to beginning teachers.

The administrative functions for the certification process are conducted by the Educator Leadership & Quality Division of the TEA. Licensing authority remains with the SBEC/TEA.

Policy on Professional Dispositions

Students who are seeking teacher certification or who are enrolled in the College of Education (COE) are required to read "The Statement on Professional Dispositions," which defines the behavioral

standards the COE expects of its students. Students may be withdrawn from their program for not meeting the academic requirements, after a review process. They may also be withdrawn for not meeting the professional disposition standards following the disposition resolution process. The Statement on Professional Dispositions is found at https://www.uhcl.edu/education/student-resources.

Field Experience Courses

There are many COE courses that require field experiences. Students in these courses are required to spend part of their time off campus, in most cases, in school classrooms. The State of Texas requires each of these students to pass a criminal background check before being allowed in the classroom for the field experience. It is the student's responsibility to meet this requirement, as field experience is key to those designated courses.

Criminal Background Checks

As required by Texas Senate Bill 9, the district will conduct a criminal background check on each student before the student is allowed in the school for a field experience. In order for the criminal background check to be conducted, each student must complete all required documentation. Part of the documentation will require that each student provide his/her social security number and driver's license number. If a student does not have a driver's license, then, at the discretion of the school district, other official numbers (visa, passport, etc.) may be required. The criminal background check is conducted for each field-experience course each semester and for each district in which the student is completing a field experience. If a student is denied access to a district based on the criminal background check, the student cannot get credit for the course. The student will not be able to register for any further field experience course until the situation has been corrected. For information on the Code of Ethics for Texas educators, refer to the Texas Administrative Code Web site.

The Texas Education Agency (TEA) offers Preliminary Criminal History Reviews for Educator Certification Candidates for a non-refundable fee of \$50.00. This service allows those individuals who are contemplating obtaining a Texas teacher certificate in the future the opportunity to have a review of an existing criminal history performed by agency staff. The review is based solely on information provided by the candidate and will result in a non-binding opinion issued by the agency as to whether the candidate would be eligible for Texas teacher certification at the time of the evaluation. The process does not preclude a candidate from being required to submit to a national criminal history review as required by statute at the time of application for educator credentials. For more detailed information for the service, including all necessary forms and instructions, visit the following link for Frequently Asked Questions on the TEA Web site

Courses that require field placement in registered child care programs will have criminal background checks processed through the Texas Family and Protective Services.

Centers and Offices

Center for Professional Development of Teachers (CPDT)

The College of Education (COE) has been designated as a Center for Professional Development of Teachers (CPDT). The teacher preparation plan has been restructured to provide extensive school-based experiences for prospective educators. These expanded experiences include a two-semester internship/clinical teaching, field-based courses and close cooperation with a number of schools which have been designated as Professional Development School (PDS) sites. These sites operate under the philosophy that every staff member is a mentor, providing a rich and supportive environment for the preparation of professional educators. The CPDT coordinates field experiences and collaborates with the Center for Educational Programs (CEP) in providing a wide array of professional development opportunities. The CPDT also provides technological support and professional development for all Internship I and Internship II/Clinical teaching candidates.

Field-based experiences and graduate internships and practicums take place in a variety of settings in twenty-two local area school/clinical teaching districts. Fifty-five schools have been designated as PDSs and provide pre-service internships and professional mentoring. In addition, the COE has an additional 124 affiliation agreements with other businesses and other school districts to provide both graduate internship/practicum placement and field experiences. All placement sites must have an approved UHCL Agreement of Affiliation on record with the CPDT office prior to beginning the practicum.

Professional Development Laboratory School (PDLS)

University of Houston-Clear Lake (UHCL) and Clear Creek Independent School District (CCISD) have entered into a partnership to maintain a Professional Development Laboratory School (PDLS). The PDLS is located at McWhirter Elementary School in Webster, Texas, and opened at the beginning of the 2002-2003 school year.

University of Houston-Clear Lake (UHCL) and Deer Park Independent School District (DPISD) have entered into a partnershipto maintain a Professional Development Laboratory School (PDLS). The PDLS is located at Parkwood Elementary School in Pasadena, Texas, and opened at the beginning of the 2014-2015 school year.

The College of Education (COE) acts on behalf of the University to oversee the PDLS. UHCL faculty provide instructional leadership, conduct research and engage in professional development. In addition, some COE courses are taught at the PDLS campuses. The main focus of the PDLS is to provide educational opportunities for UHCL and CCISD/DPISD faculty, students and the school community. Faculty and students interested in being involved in the PDLS should contact the COE Associate Dean.

Center for Educational Programs (CEP)

The Center for Educational Programs (CEP) provides academic and outreach services to students, faculty, schools, school districts, other educational entities and members of the community. The CEP coordinates the College of Education's (COE's) clinical services, provides facilities and coordination for laboratory experiences, supports a broad range of programs for children and youth, offers non-credit courses for area educators, assists local schools and school districts in emerging and ongoing professional development activities and promotes and supports various projects of the COE.

Office of Academic Advising

This office provides information about the College of Education (COE) degree requirements, advises all undergraduate and post-degree teacher certification students seeking initial teaching certificates, analyzes transcripts, performs student audits prior to admission to Pre-Service Internship I and the Alternative Certification Program (ACP) and prepares students' degree and certification plans. The office also advises prospective graduate students in the various COE plans and assigns them faculty advisers.

Office of Educator Certification

Questions about state educator certification policies and regulations should be directed to this office. It maintains all official certification records for the College of Education (COE). This office also approves applications for admission to the Teacher Education Program (TEP); audits for the Master's Comprehensive examination and graduation; recommends students for educator certificates; and tracks data for Title II and the Accountability Standards for Educator Preparation (TEA Accreditation).

Office of State Assessments

The Office of State Assessments advises and disseminates information to students about the state teacher certification exams, which are called Texas Examinations of Educator Standards (TExES). Candidates must pass their required TExES in order to become public school educators in the state of Texas. The Office of State Assessments gives test approval to eligible students and keeps a record of students' exam scores. It distributes literature pertaining to state assessments, such as registration instructions, practice test information and notification of any changes or updates from the Texas Education Agency (TEA) regarding the TExES. This office offers opportunities for UHCL students and alumni to take practice tests to help prepare them for their actual exam(s). The College of Education (COE) State Assessments Coordinator networks with UHCL faculty and staff, as well as with the Educational Testing Service (ETS) and TEA, in order to maintain accurate testing procedures and requirements.

Research Center for Language and Culture

This center supports initiatives in the research and development of educational programs for students working with second language learners and their families. Funded projects have included teacher training, bilingual counselor training and bilingual administrator training.

Learning Resources Review Center

This center is jointly sponsored by the Alfred R. Neumann Library and the College of Education (COE) and houses current children's books furnished by the generosity of publishers and producers of books and materials. The primary function of the center is to encourage review activities.

Certification

Alternative Certification Program (ACP)

The University of Houston-Clear Lake (UHCL) College of Education (COE) Alternative Certification Program (ACP), in cooperation with UHCL member school districts, is a training program that provides the opportunity for initial teacher certification students who have earned bachelor's degrees to be employed as full-time teachers while they complete their certifications. The length of the program may be from one to three years depending on students' qualifications. According to the USDE and NCLB, each school district must ensure that all teachers who teach core academic subjects funded by Title I funds are "highly qualified." Uncertified educators are able to meet this "highly qualified" definition by:

- Holding a bachelor's degree or higher from an approved institution,
- · Being admitted to a State Board for Educator Certification (SBEC) approved ACP, and
- · Passing the state assessments required for the certification area being sought.

Admission Requirements for Alternative Certification Program (ACP)

Students must have the following:

- 1. Bachelor's degree or higher from an approved accredited institution. Must be conferred by May for fall entry and August for spring entry into the program.
- 2. All required state assessments must be passed.
- 3. Admitted to UHCL as a post-baccalaureate teacher certification or graduate teacher certification student.
- 4. Complete 150 clock hours of training at UHCL towards the certificate, prior to ACP admission.
- 5. Admission to TEP is required before accepting a position with a school district.
- 6. Thirty documented clock hours of K-12 experience observation.
- 7. 2.750 GPA, overall or in the last 60 hours of coursework may be accepted (includes all coursework in the semester of the 60th hour).
- 8. Application must be submitted to the office of the Center for the Professional Development of Teachers (CPDT) by the deadline posted on the ACP application. The deadline is January 1 for the spring semester and August 1 for the fall semester.
- 9. \$60 application fee.

The teaching position must be with one of the UHCL CPDT Teacher Center Board member districts listed below:

- Alvin
- Angleton
- Brazosport
- · Channelview
- · Clear Creek
- · Columbia-Brazoria
- Danbury
- · Deer Park
- Dickinson
- · Friendswood
- · Galena Park
- Galveston
- · Goose Creek
- Hitchcock
- Houston
- · La Marque
- · La Porte
- · Pasadena
- \cdot Pearland
- · Santa Fe
- · Sheldon
- · Texas City

Qualified Alternative Certification Program (ACP) Students

Upon acceptance, qualified students will complete the following steps:

- · Apply for probationaryiintern certificate at http://tea.texas.gov/.
- Pay a non-refundable fee of \$3,000 (subject to change) which will be deducted from each ACP student's annual salary by the school district. Students will pay additional fees if a second and/or third year is necessary.
- · Complete all requirements listed on certification plan.

General Certification Information

In accordance with the rules of the State Board of Education, students applying for a teaching certificate in the State of Texas must meet the requirements for a bachelor's degree with an academic major (other than education) or an interdisciplinary academic major. The major must be related to the public school curriculum as defined by Chapter 74 of the Texas Administrative Code.

Students seeking a certification recommendation must have at least a 3.000 overall grade point average (GPA) in Pedagogy coursework and at least a 2.500 overall GPA in the content area for which the recommendation is sought. Grades of "C-" or better are necessary for all University of Houston-Clear Lake (UHCL) course requirements. Pre-Service Internship I requires a grade of "B-" or better.

A State Board for Educator Certification (SBEC) rule (Title 19, Part 7, Chapter 249) gives the board the authority to suspend or revoke a teaching certificate or refuse to issue a teaching certificate to a person who has been convicted of a felony or misdemeanor which directly relates to the duties and responsibilities of the teaching profession. For additional actions that may be taken by the board, see Rule 249.

SBEC and TEA require all educator preparation students, faculty, staff, field supervisors and advisory committee (TCC) members to be trained in and adhere to the Texas Educators' Code of Ethics. See Texas Administrative Code, Title 19, Part 7, Chapter 228.50. Training may be provided online or in a classroom setting. Candidates will receive training prior to student teaching, internship or practicum.

State Assessments Information

The Texas Education Agency (TEA) has developed comprehensive exams called Texas Examinations of Educator Standards (TEXES) to ensure that each educator has the content and professional knowledge necessary for an entry-level position in Texas public schools. All initial certification students must pass a pedagogy exam and at least one content exam, depending on their certification area. Professional certification students are required to pass one state exam. To determine which state assessments are required for a certificate, candidates should check their degree or certification plan.

Initial certification students at UHCL will be eligible to register to take the first attempt of their state assessments on any of the test administration dates under the following conditions:

- Must have an approved and signed degree or certification plan on file in the COE that matches the state assessments for which they are registering.
- Must be formally admitted to the Teacher Education Program (TEP).
- · Must earn credit (CR) in TCED 4100 or TCED 4102 by fulfilling all requirements of that course.
- Must fulfill eligibility requirements for taking practice exams (consult the COE website and/or the state assessments office for details).
- Must pass a practice test for each required exam.

Students who meet the above conditions may register for the state assessments by completing the following steps:

1. Set up a TEA account at http://tea.texas.gov. Note: This account will need to be updated, as needed, throughout the candidate's educator career.

- 2. Make a note of the TEA ID number from the TEA account.
- 3. Log onto the Educational Testing Service (ETS) website at www.texes.ets.org and set up a New User account. Students should use the exact personal information for this account as in their TEA account. Follow directions for registering for an exam using the TEA ID number retrieved from the TEA account. All test registrations are to be done online, unless the test taker has no way of paying the test fees electronically, in which case registration may be done by telephone at 1-800-205-2626.

Texas Education Agency (TEA)

For additional information on State certification, contact the Texas Education Agency (TEA) through its Web site at http://tea.texas.gov, or its Information and Support Center number at 1-512-936-8400. Any changes made by the State and University of Houston-Clear Lake (UHCL) in interpreting the rulings on educator certification plans in Texas may supersede the requirements of existing certification plans, degree plans or alternative certification plans.

Applying for Certification

All students completing requirements for certificates must apply for certification and pay the required fee at the "Educator Certification Online System" Web site at http://tea.texas.gov. Verification of certification will automatically be issued to an educator electronically by the Texas Education Agency (TEA) as soon as all requirements have been completed.

Complaint Resolution Procedures

For issues or complaints, contact the College of Education Office of Academic Advising by email, education@uhcl.edu, or phone, 281-283-3600. If the issue is not resolved, contact the College of Education, Office of the Associate Dean.

For further issues or complaints about this educator preparation program, see the UHCL COE "Complaint Procedures", under General Information, at https://www.uhcl.edu/education/student-resources/.

For steps to follow in contacting the Texas Education Agency with a complaint about this EPP, see http://tea.texas.gov/About_TEA/Contact_Us/complaints/complaints/.

Plans with Teacher Certification

The College of Education (COE) has been designated by the State Board for Educator Certification (SBEC) as a Center for Professional Development of Teachers (CPDT). The CPDT provides, in collaboration with area school districts, teacher preparation and professional development in partnership schools and promotes integration of technology in public school instruction.

The undergraduate plan in Interdisciplinary Studies leads to the Bachelor of Science (BS) degree. Students wishing to pursue this degree may choose one of the following:

- · Core Subjects EC-6 (Early Childhood Concentration)
- · Core Subjects EC-6 (Reading Concentration)
- · Core Subjects EC-6 with Bilingual Supplemental
- · Core Subjects EC-6 with EC-12 Special Education
- · Core Subjects EC-6 with ESL Supplemental
- · Core Subjects 4-8
- Core Subjects with ESL Supplemental 4–8
- · Science 4-8
- · Social Studies 4-8

Undergraduate students seeking either 4-8, 7-12, or EC-12 certification in conjunction with an academic degree in another University of Houston-Clear Lake (UHCL) college (the College of Human Sciences and Humanities [HSH] or the College of Science and Engineering [SCE]) must seek their degree plans in the appropriate school.

The staff in the COE Office of Academic Advising advises all students seeking the bachelor's degree in Interdisciplinary Studies, initial certification, supplemental certificates, professional certificates and University of Houston–Clear Lake (UHCL) certificates. Teacher education students pursuing bachelor's degrees in other schools also must be advised about certification plan requirements by the COE Office of Academic Advising. These students should also contact the academic advisers in the schools in which they are pursuing degrees.

Plans without Teacher Certification

In addition to undergraduate programs that include teacher certification preparation, the College of Education (COE) also offers the following undergraduate degrees that do not include teacher certification:

- 1. Addictions Counseling B.S.
- 2. Early Childhood Care and Education B.S.
- 3. Interdisciplinary Studies B.A.S. with a Major in Early Childhood Education–Educator of Young Children.

The staff of the COE Office of Academic Advising advises all students seeking the bachelor's degrees listed above.

Admission to the Teacher Education Program (TEP)

In order to enroll in pedagogy coursework, students must be formally admitted to the Teacher Education Program (TEP). For admission to the TEP is contingent on the following:

- 1. Meeting Basic Skills in Reading, Mathematics and Writing by completing one of the following:
- TAKS (within 3 years) English Lang Arts: 2200 minimum, Essay: 3 minimum, Math: 2200 minimum.
- SAT (within 5 years) Prior to 03/01/16: Cumulative score Verbal/Math 1070 minimum, Verbal: 500 minimum, and Math: 500 minimum. After 02/29/16: Evidence-based Reading Writing: 480 minimum, and Math: 530 minimum.
- Baccalaureate degree or higher awarded by a regionally accredited U.S. institution of higher education.
 - Core Complete completed the requirements of the Texas General Education Core Curriculum.
- ACT college readiness scores (within 5 years) Composite score: 23 minimum, English: 19 minimum, Math: 19 minimum.
- STAAR End of Course exams (within 3 years) English III Reading score (Level II 2000 minimum), English III Writing score (Level II 2000 minimum), Algebra II score (Level II 4000 minimum).
- 2. TSI Assessment Math ≥ 350; Reading ≥ 351; Writing ≥ 5 or 4 with a 363 on multiple choice. Submitting the TEP application with all required documents to the Office of Educator Certification in B-1231. The application is available online at the UHCL website in the COE Forms and Info section.
- 3. Achieving a grade of "C-"or better in EDUC 4310, SILC 4315 and INST 3313; and completing TCED 4100/4102 with a "CR" credit, if an undergraduate.
- 4. Completion of a college-level public speaking course with a grade of "C-" or better or submitting a Speech Competency form.
- 5. Achieving a grade point average (GPA) \geq 2.750 overall or in the last 60 semester credit hours.
- 6. Completion of at least 60 hours of courses from the degree plan.
- 7. Completion of a minimum of 12 semester credit hours (15 semester credit hours is pursuing mathematics or science) in the subject-specific content area for the certificate being pursued.
- 8. Submitting a one-page paper describing personal characteristics and previous experiences to be evaluated for certificate appropriateness.
- 9. Reading and understanding the handout, "7 Things to Know Before Becoming a Teacher"
- 10. Pay the TEA \$57 Admission Fee.
- 11. For educator candidates educated in countries where English is not the native language, demonstrating English proficiency by taking all four parts of the TOEFL-iBT with a score of 26 on the speaking portion. Transcripts must be evaluated course-by-course by a TEA approved foreign credential service, if post-baccalaureate.
- 12. Receive formal approval of the application for admission and accept admission to the program.

Upon admission to the TEP, the COE will establish an initial profile for each student with the TEA. Students will be notified by TEA prompting them to activate their accounts and complete their profiles.

The final authority for admission and retention in the TEP resides with the Dean of the COE.

Conditional Admission to the TEP

Students enrolled in one or more of the prerequisite courses and/or one or more courses needed to complete the core curriculum may be granted conditional admission to the TEP, contingent upon successful completion of said course(s).

Admission to Pre-Service Internships I and II For Degree Seeking Students

TCED 4378, Pre-Service Internship I and TCED 4978, Pre-Service Internship II/Clincial teaching are the capstone experiences for the University of Houston-Clear Lake (UHCL)-approved Teacher Education Program (TEP). Students must enroll in consecutive long semesters (fall/spring or spring/fall) to complete these two experiences. The rules governing TCED 4378 and TCED 4978/TCED 4668 are identical. Pre-Service Internship I is every Wednesday of the public school semester. Pre-Service Internship II/Clinical teaching is every day of the public school semester. Enrollment in Pre-Service Internship I should not be considered until almost all content and basic certification courses have been successfully completed since the number of semester hours in the Pre-Service Internship II/Clinical teaching semester is restricted to 12. Specific requirements for Pre-Service Internships I and II/Clinical teaching are listed below.

Students must apply for Pre-Service Internship I through the Center for Professional Development of Teachers (CPDT). Applications for Pre-Service Internship I must be received in the CPDT by March 1 for fall internship and by October 1 for spring internship. Pre-Service Internships I and II/Clinical Teaching are not offered in the summer.

Current Internship I candidates do not need to apply for Internship II/Clinical teaching II. The COE Advising Office will automatically conduct an audit of all Internship I candidates' academic records at the end of each semester to determine candidates' eligibility for Internship II/Clinical teaching.

Informational meetings are held in early Fall and Spring of each year. Dates and times are posted on the bulletin board outside Suite B1231 as well as on the CPDT website. COE advisers also send students notification of the informational meetings via UHCL e-mail. Pre-Service Internship I applications are available at the informational meeting.

Pedagogy coursework must be taken prior to or concurrently with Pre-Service Internship I. The Office of Academic Advising will perform audits to establish students' eligibility for these experiences. Audits are work copies only.

Pre-Service Internship I (TCED 4378)

All students must meet the following requirements for admission to Pre-Service Internship I:

- 1. Formal admission to the Teacher Education Program (TEP)(see above).
- 2. Field experience courses must be satisfactorily completed prior to or taken concurrently with Pre-Service Internship I. Students are not allowed to take more than two courses which include field experience concurrently with Internship I.
- 3. Any Wednesday courses taken concurrently with Pre-Service Internship I cannot be scheduled earlier than 7:00 p.m.
- 4. For those certifications requiring TCED 4323 or 4333, successful completion of MATH 1351 is a prerequisite. See catalog for prerequisites for all pedagogy courses.
- 5. TCED 4100/4102 must be taken prior to consideration for Internship I (TCED 4378) unless all required state assessments have been passed.
- 6. Applications for Pre-Service Internship I must be received in the Center for Professional Development of Teachers (CPDT) (B1231-4) before the close of business on March 1 for fall internship and by October 1 for spring internship. If the application deadline falls on a weekend or a university holiday, applications will be accepted before the close of business on the following working day.
- 7. Upon acceptance into TCED 4378, students will be placed on the district's substitute list. As required by Texas Senate Bill 9, the district will conduct a criminal background check on each student. In order for the criminal background check to be conducted, each student will be required to complete all required documentation. Part of the documentation will require that each student provide his/her social security number and his/her driver's license number. If a student does not have a driver's license number, the state identification number must be provided. Admission to Pre–Service Internship I is contingent upon eligibility for entering Pre–Service Internship II/Clinical teaching the following consecutive long semester. In the event that the student has not passed the required state certification exams prior to the following consecutive long semester, the student will enter Internship II/Student Teaching II the following semester after the required state certification exams have been passed. Students will be informed of their public school internship assignments before Pre–Service Internship I begins.

Admission to Pre-Service Internship I is contingent upon eligibility for entering Pre-Service Internship II/Clinical teaching II the following consecutive long semester. In the event that the student has not passed the required state certification exams prior to the following consecutive long semester, the student will enter Internship II/Clinical teaching II the following semester after the required state certification exams have been passed. Students will be informed of their public school internship assignments before Pre-Service Internship I begins.

Intern I participants must pass all Texas Examinations of Educator Standards (TEXES) to be eligible for Internship II/Clincial teaching. Scores must be submitted by July 15 for fall Intern II/Clinical teaching participants and January 15 for spring Intern II/Clinical teaching participants.

Pre-Service Internship II/Clinical Teaching (TCED 4978)

Students must meet the following requirements for admission to Pre-Service Internship II/Clinical Teaching:

- 1. All Texas Examinations of Educator Standards (TExES) exams must be passed to be eligible for Internship II/Clinical teaching. Scores must be submitted by July 15 for fall Intern II/Clinical teaching participants and by January 15 for spring Intern II/Clincial teaching participants.
- 2. Successful completion of Pre-Service Internship I with a grade of "B-" or better.
- 3. Successful completion of all field experiences courses.
- 4. A "B-" or better in Pre-Service Internship I.
- 5. It is strongly recommended that Internship II/Clincal teaching be taken alone in the final semester. No more than six additional semester hours may be taken during Pre-Service Internship II/Clinical teaching (TCED 4978). These additional courses must meet no earlier than 7 p.m., as they may interfere with Internship II/Clinical teaching course requirements. See adviser for acceptable coursework.

Students denied admission to Pre-Service Internships I or Internship II/Clinical teaching may reapply but must do so by stated deadlines for subsequent semesters.

UHCL Alternative Certification Program for Education Aides (Paraprofessionals)

Students who are working in local school districts as educational aides and pursuing a B.S. in Interdisciplinary Studies with teacher certification may petition to graduate without Internship I and Internship II/Clinical teaching in order to enter the Alternative Certification Program (ACP) at the University of Houston–Clear Lake (UHCL). If planning to enter the ACP at UHCL, the following requirements must be met by the appropriate deadlines before approval to graduate without Internship I or Internship II/Clinical teaching will be granted:

- 1. Meet with your adviser and/or CPDT Director in the College of Education (B1231) to determine if this is the best option for you.
- 2. Be currently employed as an Educational Aide in a local school district.
- 3. Have 1-3 consecutive years of experience as an educational aide in a TEA-approved school within the last 5 years.
- 4. Pass all required State Assessments prior to graduating.
- 5. Complete additional advised coursework to replace Internships I and Internship II/Clinical teaching. The number of semester credit hours of additional coursework required is equivalent to

the number of hours associated with Internships I and II (12). TCED 4978 is required, 12 hours of additional coursework must be completed. The additional courses will be considered Professional Development coursework, and the grades will be included in calculating the Professional Development GPA. A "Course Substitution Form" is required for each course. The form(s) must be submitted prior to graduation. The additional coursework must be selected from the following:

- Core Subjects EC-6 with Special Education EC-12: SILC 4302, SILC 4310, SILC 4311, SILC 4312 or SILC 4313.
- · Core Subjects EC-6 with Bilingual Supplemental: SPED 4311, SPED 4312, SPED 4313 or SPED 4321.
- Core Subjects EC-6: SILC 4302, SILC 4300, SILC 4301, SILC 4312, SILC 4313, SPED 4311, SPED 4312,
 SPED 4313 or SPED 4321.
- · Core Subjects EC-6 with ESL Supplemental: SPED 4311, SPED 4312, SPED 4313 or SPED 4321.
- · All 4–8 certifications: select additional content courses in consultation with adviser.
- 6. Provide a letter of support from the principal of the school in which you are currently employed. Must be submitted prior to graduation.
- 7. Provide a Letter of Intent to Hire from the district in which you are to be employed as a full-time teacher.
 - Individual informational meetings are held with Academic Advising and/or with the Office of the Center for
- 8. Professional Development of Teachers [CPDT], B1231–4. ACP applications are in the CPDT office. Must be completed prior to graduation.
- 9. Submit the ACP Application to the Center for the Professional Development of Teachers by the posted deadline prior to graduation.
- 10. Sign the form and submit it to the Certification Office (Suite 1231). The form states your intention to graduate without Internship I and Intership II/Clinical teaching and your intent to enter the ACP program.
 - Submit the "Verification of Educator Experience" form, which is to be completed by your school district's Human
- 11. Resources Department or Superintendent's Designee. It must show proof of at least 1-3 consecutive years as an educational aide.
- 12. Apply for graduation by the posted deadline.
- 13. Apply to UHCL as a post-baccalaureate teacher certification student.

Post-Degree Teacher Certification Plans

Students seeking initial teacher certification and who hold at least a bachelor's degree from an accredited university can choose from two sets of programs. Students wishing to combine their pursuit of initial teacher certification with the pursuit of a master's degree can follow a graduate teacher certification program (see the University of Houston-Clear Lake [UHCL] Graduate Catalog). Students who do not wish

to pursue a master's degree can follow a post-baccalaureate teacher certification program. Students pursuing a second bachelor's degree are also considered to be post-baccalaureate students.

Although it is not necessary for students holding at least a bachelor's degree and seeking initial teacher certification to pursue a second bachelor's degree, those who wish to do so must meet the university's lower-level requirements in addition to the requirements for both teacher certification and the second degree unless such requirements were met through the completion of the first bachelor's degree. These lower-level requirements are described in the Core section of the catalog.

Post-Baccalaureate Teacher Certification Plans

To be eligible for admission to a post-baccalaureate teacher certification plan, students must hold a bachelor's degree from an accredited university and meet the university admissions requirements for post-baccalaureate students. Post-baccalaureate students are considered undergraduate students; therefore, they must maintain undergraduate academic standards and pay undergraduate tuition and fees. Post-baccalaureate teacher certification students are not eligible to enroll in graduate courses, and coursework taken toward earning initial teacher certification may not be applied to a master's degree.

Post-Baccalaureate Teacher Certification Testing Options

Per the Texas Education Agency (TEA), all individuals are required to pass the appropriate teacher certification exams prior to entering a classroom as a teacher. The University of Houston-Clear Lake (UHCL) provides two testing options for post-baccalaureate teacher certification students.

Option 1: Take content state assessments as Pre-Admission Content Tests (PACT) before admission to the Teacher Education Program (TEP).

- Individuals can attempt a PACT up to five times prior to admission to the TEP.
- · All required PACTs must be passed prior to or during first semester at UHCL.
- Students are not permitted to fulfill any test preparation requirements prior to taking content state assessments.
- Students are not permitted to participate in any UHCL-sponsored test preparation workshops prior to being admitted to the TEP.
- During the first semester, students must enroll in EDUC 4310, INST 3313 and SILC 4315 and apply to the TEP after passing all required content state assessments as PACTs. (The Texas Education Agency (TEA) does not allow post-degree teacher certification students to take additional course prior to being admitted to the TEP.)
- · After admission to the TEP, students can continue to take required coursework.
- For students seeking a 4–8 or 7–12 certification, all content area coursework will be waived. (No coursework will be waived for students seeking an EC–6 certification.)

• Students must meet all current UHCL College of Education (COE) state assessment requirements prior to attempting the Pedagogy and Professional Responsibility state assessment.

Option 2: Take all state assessments after admission to the TEP.

- During the first semester, students must enroll in EDUC 4310, INST 3313 and SILC 4315 and apply to the TEP. (The TEA does not allow post-degree teacher certification students to take additional course prior to being admitted to the TEP.)
- After admission to the TEP, students can continue to take required coursework.
- Students must meet all current UHCL COE state assessment requirements prior to attempting any state assessment.
- · No content coursework will be waived. Students must complete all required coursework.

Graduate Teacher Certification Plans

To be eligible for admission to a graduate teacher certification plan, students must hold a bachelor's degree from an accredited university and also be pursuing a master's degree. Students must meet the graduate admissions requirements for both the university and the College of Education (COE). These requirements are described in the graduate catalog.

Graduate teacher certification students are considered graduate students; therefore, they must maintain graduate academic standards and pay graduate tuition rates. Some courses listed on the graduate teacher certification plans can also be applied to the pursuit of a master's degree

Department of Counseling, Special Education, and Diversity

Our focus in the Department of Counseling, Special Education, and Diversity is preparing teachers and school counselors who can address the developmental needs of all learners. Graduates of University of Houston-Clear Lake's Department of Counseling, Special Education, and Diversity are uniquely trained to become transformative leaders who work with students with diverse needs so that students can attain their full academic potential. To this end, we offer undergraduate and masters degrees that encompass these programs. UHCL is one of 150 educator preparation programs in Texas that are accredited to recommend educators for certificates.

Undergraduate Degrees

- · Addictions Counseling B.S.
- Interdisciplinary Studies B.S. with Core Subjects EC-6 and Bilingual Supplemental Certification
- Interdisciplinary Studies B.S. with Core Subjects EC-6 and ESL Supplemental Certification
- Interdisciplinary Studies B.S. with Core Subjects EC-6 and Special Education EC-12 Certification

• Interdisciplinary Studies B.S. with Core Subjects 4-8 and ESL Supplemental Certification

Teacher Certification

- Post-Baccalaureate Teacher Certification Plan Core Subjects EC-6 with Bilingual Supplemental
- Post-Baccalaureate Teacher Certification Plan Core Subjects EC-6 ESL Supplemental
- Post-Baccalaureate Teacher Certification Plan Core Subjects EC-6 Special Education EC-12

Minors

· Minor in Special Education

Department of Curriculum and Instruction

Follow your dream to become the best teacher possible by choosing a degree program in University of Houston–Clear Lake's Department of Curriculum and Instruction. We offer undergraduate, graduate and doctoral degrees that focus on the preparation and development of dedicated teachers and teacher leaders who will work with children from birth through elementary, middle and secondary school and beyond. Our focus is on preparing classroom teachers and other professionals who will work in positions that serve children and youth to understand and utilize the most effective and current teaching tools available to assist students in achieving academic success.

Undergraduate Degrees

- Interdisciplinary Studies B.A.S. with a major in Early Childhood Education Educator of Young Children
- Early Childhood Care and Education B.S.
- Interdisciplinary Studies B.S. with Core Subjects EC-6 Certification (Early Childhood Concentration)
- Interdisciplinary Studies B.S. with Core Subjects 4-8 Certification
- Interdisciplinary Studies B.S. with Science 4–8 Certification
- Interdisciplinary Studies B.S. with Social Studies 4-8 Certification

Programs Shared with HSH and CSE

- History B.A. with History 7-12 Certification
- History B.A. with Social Studies 7-12 Certification
- Geography B.S. with Social Studies 7-12 Certification
- · Art and Design B.F.A. with Grades EC-12 Art Certification
- Fitness and Human Performance B.S. with Grades EC-12 Physical Education Certification
- Biological Sciences B.A. with Life Sciences 7–12 Certification
- Mathematics B.A. with Mathematics 4–8 Certification

- Mathematical Science B.A. with Mathematics 7-12 Certification
- Mathematical Science B.S. with Mathematics 7–12 Certification

Teacher Certification

- Post-Baccalaureate Teacher Certification Plan Core Subjects EC-6 (Early Childhood Concentration)
- Post-Baccalaureate Teacher Certification Plan Core Subjects 4-8
- Post-Baccalaureate Teacher Certification Plan Mathematics 4-8
- Post-Baccalaureate Teacher Certification Plan Science 4-8
- Post-Baccalaureate Teacher Certification Plan Social Studies 4-8
- Post-Baccalaureate Teacher Certification Plan History 7-12
- Post-Baccalaureate Teacher Certification Plan Life Sciences 7-12
- Post-Baccalaureate Teacher Certification Plan Mathematics 7-12
- Post-Baccalaureate Teacher Certification Plan Social Studies 7-12

Minors

- · Minor in Early Childhood Education
- · Minor in Teacher Education

Department of Educational Leadership and Policy Analysis

Demonstrate your commitment to professional and personal development by furthering your own education. University of Houston-Clear Lake's Department of Educational Leadership and Policy Analysis is committed to preparing candidates to become inspired leaders who create and foster positive change in the educational environment of schools, associated organizations, institutions and agencies.

Department of Literacy, Library, and Learning Technologies

Librarians are at the heart of a school's research activities. They support the right to access information for everyone, and it is a librarian's mission to ensure students have access to the materials they need to help them learn. That is why the focus of the Department of Literacy, Library, and Learning Technologies in University of Houston–Clear Lake's College of Education is to provide teachers, librarians, instructional designers, and educational leaders with the knowledge and experience to build a solid foundation in the literacy skills of reading, writing, listening, and speaking, viewing and visually representing, while utilizing the ever–expanding communication spectrum which constitutes the world with which all learners will be confronted

Undergraduate Degrees

• Interdisciplinary Studies B.S. with Core Subjects EC-6 Certification (Reading Concentration)

Programs Shared with HSH and CSE

- Literature B.A. with English Language Arts and Reading 4-8 Certification
- Literature B.A. with English Language Arts and Reading 7-12 Certification

Teacher Certification

- Post-Baccalaureate Teacher Certification Plan English Language Arts and Reading 4-8
- Post-Baccalaureate Teacher Certification Plan English Language Arts, Reading and Social Studies 4-8
- Post-Baccalaureate Teacher Certification Plan English Language Arts and Reading 7-12

Minors

- Minor in Instructional Technology
- Minor in Instructional Practices

College of Human Sciences and Humanities

The College of Human Sciences and Humanities (HSH) is dedicated to the study of people and significant issues about the human experience. HSH fosters the liberal arts and encourages practical preparation for occupations. HSH is organized into five departments, each of which is home to individual programs; in addition, HSH offers a number of certificates and is home to the UHCL Writing Program which serves students across the university.

Accreditations and Approvals

Various programs in HSH are accredited by the following organizations: the Commission on Accreditation for Marriage and Family Therapy Education; the Association for Behavioral Analysis International; the Council on Social Work Education; and the Human Factors and Ergonomics Society. HSH also carries approval from the National Association of School Psychologists, and the National Strength and Conditioning Association has recognized the Fitness and Human Performance curriculum as preparing students for successful entrance into the career field.

Departments and Programs of Study

The departments comprising HSH include Clinical, Health, and Applied Sciences; Communication and Studio Arts; Liberal Arts; Psychology; and Social and Cultural Sciences. Each is home to a variety of programs representing the areas of academic study indicated below.

- Department of Clinical, Health, and Applied Sciences
 - · Fitness and Human Performance B.S.
 - Fitness and Human Performance B.S. with Grades EC-12 Physical Education Certification
 - Registered Nurse to Bachelor of Science in Nursing B.S.N.
 - · Social Work B.S.W.
- Department of Communication and Studio Arts
 - Art and Design B.F.A. with Graphic Design Concentration
 - · Art and Design B.F.A. with Studio Art Concentration
 - Art and Design B.F.A. with Grades EC-12 Art Certification
 - · Communication B.A.
- · Department of Liberal Arts
 - · History B.A.
 - History B.A. with 7-12 History Certification
 - History B.A. with 7-12 Social Studies Certification
 - · Humanities B.A.
 - · Literature B.A.
 - Literature B.A. with 4-8 English Language Arts and Reading Certification
 - Literature B.A. with 7-12 English Language Arts and Reading Certification
- Department of Psychology
 - · General Psychology B.S.
- Department of Social and Cultural Sciences
 - Anthropology B.S.
 - Behavioral Sciences General B.S.
 - Criminology B.S.
 - Geography B.S.
 - Geography B.S. with 7–12 Social Studies Certification
 - · Public Service Leadership B.S.
 - · Sociology B.S.

Certificates

In addition to study in programs leading to major degrees, HSH also offers a number of program-related certificates; including the following:

Applied Behavior Analysis

- B.S.W. with Women's and Gender Studies
- · Graphic Design
- · Public Service Leadership
- · Women's and Gender Studies

Minors

HSH offers disciplinary and interdisciplinary minors. These are listed in various department sections throughout the following pages. Students who wish to select a minor should do so in consultation with their academic advisers and in accordance with the UHCL policy specified in the General Program Requirements section of the catalog. Note that individual minors may have requirements in addition to those articulated in the UHCL policy. Note, too, that students may not select a minor offered by the student's major program of study, as UHCL policy prohibits such an arrangement. Some majors have duplicated minors in subplans which students may complete, although not for minor designation. Below is a complete list of HSH minors; interdisciplinary minors are marked with an asterisk:

- · Minor in Africana Studies*
- Minor in Anthropology
- · Minor in Art and Design
- Minor in Art History
- · Minor in Behavior Analysis
- · Minor in Exercise Science
- · Minor in Geographic Information System GIS
- Minor in Geography
- · Minor in Health Promotion
- Minor in History
- Minor in Humanities
- Minor in Latina/o and Latin American Studies*
- · Minor in Literature
- · Minor in Middle Eastern Studies*
- Minor in Philosophy
- · Minor in Professional Writing
- Minor in Public Service Leadership
- · Minor in Social Work
- Minor in Sociology
- Minor in Women's and Gender Studies*
- · Minor in Youth and Police Studies

Contact Us

Office of the Dean

Phone: 281-283-3300

Email: hsh@uhcl.eduWeb: www.uhcl.edu/human-sciences-humanitiesBayou Building 1529

Office of Academic Advising

Phone: 281-283-3333

Email: hshadvising@uhcl.edu Web: www.uhcl.edu/human-sciences-humanities/advising/Bayou

Building 1539

Texas Department of Corrections program

Phone: 281–283–3420 Email: hsh@uhcl.edu

Web: www.uhcl.edu/human-sciences-humanities

Bayou Building 1617

Admission into an HSH Degree Plan

Records for degree-seeking undergraduate students are processed by the Office of Admissions and forwarded to the dean's office for faculty assignment and completion of the degree plan.

Most of the College's degrees are 120 credit-hour programs. Exceptions to this 120-hour rule include the Bachelor of Fine Arts in Art and Design with EC-12 Art Certification (127 hours), the Bachelor of Science in Fitness and Human Performance with EC-12 Physical Education Certification (130 hours), the Bachelor of Science in Geography with 7-12 Social Studies Certification (127 hours), the Bachelor of Arts in History with 7-12 History Certification (127 hours), the Bachelor of Arts in History with 7-12 Social Studies Certification (127 hours), the Bachelor of Arts in Literature with 4-8 English Language Arts and Reading Certification (136 hours), and the Bachelor of Arts in Literature with 7-12 English Language Arts and Reading Certification (127 hours).

Students who arrive with fewer than 60 credit hours will be required to take more courses at UHCL to complete program requirements.

Requirements for each HSH degree plan are detailed in the following pages.

Academic advising is a key component of students' success. Students who plan to transfer to UHCL should meet with an HSH adviser during the first semester. This will help to ensure that students can complete their plans of study in the number of hours of coursework indicated in the following pages. Once accepted at UHCL, students must receive academic advising prior to enrolling in courses; otherwise, students may end up taking more credit hours than necessary to complete their degrees.

Information on HSH degree plans and advising schedules can be obtained from the HSH Office of Advising.

Writing Proficiency Requirement

All degree-seeking undergraduate students enrolled in the College of Human Sciences and Humanities are required to demonstrate proficiency in written English. In most cases, this requirement is fulfilled by passing WRIT 3304, WRIT 3305, WRIT 3306, or WRIT 3307 with a grade of "C" or better unless otherwise stated (grades of "C-" or below are not acceptable). In exceptional cases, the recommendation of three full-time faculty members who teach WRIT 3307 will exempt students from this requirement.

HSH Standards of Academic Performance

Standards of Academic Performance may be set by individual programs in the College of Human Sciences and Humanities. Such standards are stated in the catalog and apply to all students seeking a degree in that program, regardless of the catalog under which the student first enrolled in a course to be counted toward degree completion.

Diversity Requirement

Some programs in HSH require the completion of diversity courses. Diversity course options should be drawn from the list below unless otherwise specified in program-level curriculum. For Psychology, Anthropology, and General Behavioral Science majors, one course must carry the ANTH or SOCI rubric. For Sociology majors, one course must carry the SOCI rubric. Psychology majors may also choose SWRK 3324.

- · ANTH 3355 Topics in Asian Studies
- ANTH 3357 Topics in African Studies
- ANTH 3358 Topics in Middle Eastern Societies
- ANTH 4301 Studies in Cultural Diversity
- · ANTH 4333 Peoples of Mexico and Central America
- ANTH 4341 Gender and Sexuality in Global Perspectives or SOCI 4341 Women in Society or WGST 4341Women in Society
- PSYC 4308 Perspectives in Women's and Gender Studies
- PSYC 4334 Psychology of Women
- PSYC 4356 The Aging Experience or SOCI 4356 The Aging Experience
- SOCI 3352 Urban Sociology
- SOCI 4316 Women and the Law
- SOCI 4317 Race and the Law

- · SOCI 4355 Minorities in America
- SWRK 3324 Oppression, Diversity, and Social Justice

Department of Clinical, Health, and Applied Sciences

The Department of Clinical, Health, and Applied Sciences (CHAS) educates students for careers that promote the mental, physical, and psychosocial health and well-being of individuals, families, and communities. Due to changing lifestyle and environmental factors that result in increased prevalence of disease and disability, there is a growing need to discover, develop, and disseminate evidence-based prevention, treatment, and rehabilitation programs for physical and mental impairments. Through research, teaching, and service, the faculty of CHAS are dedicated to meeting this growing societal need. Moreover, CHAS faculty members are committed to the academic preparation and professional mentorship of students who will become the community and family health leaders of the future generations.

CHAS offers undergraduate degrees in various areas of clinical and applied health sciences: a Bachelor of Science in Fitness and Human Performance (BS) degree, a Bachelor of Science in Fitness and Human Performance (BS) with grades EC-12 Physical Education degree, a Registered Nurse-Bachelor of Science in Nursing (BSN) degree, and a Bachelor of Social Work (BSW) degree.

Undergraduate Degrees

- · Fitness and Human Performance B.S.
- Fitness and Human Performance B.S. with Grades EC-12 Physical Education Certification
- Registered Nurse-Bachelor of Science Nursing B.S.N.
- · Social Work B.S.W.

Certificates

· Applied Behavior Analysis

Minors

- Behavior Analysis
- Exercise Science
- Health Promotion
- Social Work

Accreditations

The B.S.W. program is accredited through the Council of Social Work and Education (CSWE). The Fitness and Human Performance program is recognized by the National Strength and Conditioning Association (NSCA) for its curriculum and research areas in strength and conditioning.

Department of Communication and Studio Arts

The Department of Communication and Studio Arts (CASA) emphasizes creativity and critical thinking in communication and the arts. In state-of-the-art studios and computer laboratories under the supervision of professors who are nationally and internationally recognized in their fields, students prepare for careers such as studio art to professional writing to graphic design to public relations. Classes are taught by published authors and award-winning artists in ceramics, painting, printmaking, sculpture, graphic design, and photography. The UHCL art faculty include recipients of multiple Fulbright awards. Art students routinely win awards for their work and are often accepted into MFA programs. Communication students often publish their work in the university's award-winning newspaper, gain professional experience through more than 100 internships in the Houston-Galveston area, and produce portfolios that demonstrate their mastery of written and visual communication suitable for media and corporate environments. The Writing program prepares students to write in their disciplines at the upper-division level. Writing program faculty offer courses in writing for the liberal arts, the human sciences, education, science, and the business and technical professions. In addition to critical thinking, these courses emphasize professional writing skills, analysis, research, and argumentation.

Undergraduate Degrees

- · Art and Design B.F.A. with Graphic Design Concentration
- Art and Design B.F.A with Studio Art Concentration
- Art and Design B.F.A. with Grades EC-12 Art Certification
- · Communication B.A.

Certificates

• Graphic Design

Minors

- · Art and Design
- Professional Writing

Department of Liberal Arts

The Department of Liberal Arts (LA) houses the History, Humanities, and Literature programs. Faculty in the department strive to develop and enhance the analytical, communicative, and research skills of their students by exposing students to the customs, values, and behaviors of culturally diverse populations as expressed through the texts, arts, and artifacts of those populations.

Undergraduate Degrees

- · History B.A.
- History B.A. with Grades 7-12 Social Studies Certification
- · Humanities B.A.
- · Literature B.A.
- Literature B.A. with Grades 4-8 English Language Arts and Reading Certification
- Literature B.A. with Grades 7-12 English Language Arts and Reading Certification

Minors

- Art History
- History
- Humanities
- Literature
- Philosophy

Interdisciplinary Minors

- · Latina/o and Latin American Studies
- · Women's and Gender Studies

Department of Psychology

The Department of Psychology is devoted to the scientific study of human behavior which includes the critical analyses of data and the potential for application in our communities. All aspects of the Psychology degree are guided by the suggested curricula of the American Psychological Association and developed by our faculty for optimum learning in classroom, laboratory, and applied settings. Faculty expertise and course requirements within the program include learning and cognition, developmental psychology, sociocultural psychology, biological bases of behavior, and scientific methods. The psychology of diverse peoples and experiences is included in these areas. Undergraduate majors will gain a liberal arts orientation with a focus on psychology.

Undergraduate Degrees

· Psychology B.S.

Certificates

· Women's and Gender Studies

Minor

· Behavior Analysis

Department of Social and Cultural Sciences

The Department of Social and Cultural Sciences (SCS) provides students with critical thinking skills and analytical knowledge in order to understand the social contexts of their intellectual, artistic, and professional work. The faculty of our interdisciplinary department span the social sciences: Anthropology, Criminology, Cross-Cultural Studies, General Behavioral Sciences, Geography, Political Science, Public Service Leadership, and Sociology. The department's elective courses highlight interdisciplinary approaches and intellectual diversity, fostering critical investigation and curiosity. Students may choose from a variety of courses that examine the political, social, cultural, and geographical forces that shape life.

Undergraduate Degrees

- Anthropology B.S.
- · Behavioral Sciences B.S.
- · Criminology B.S.
- Geography B.S.
- Geography B.S. with Grades 7–12 Social Studies Certification
- · Public Service Leadership B.S.
- · Sociology B.S.

Certificates

• Public Service Leadership

Minors

- Anthropology
- Geography
- · Geographic Information Systems (GIS)

- · Public Service Leadership
- Sociology
- · Youth and Police Studies

Interdisciplinary Minors

- · Africana Studies
- · Middle Eastern Studies

College of Science and Engineering

The College of Science and Engineering (CSE) offers high quality academic degrees consistent with the role of a regional public university. Plans within the college prepare graduates to enter fields in natural sciences, mathematics, computing and computer engineering. Individuals in the college's plans are expected to develop skills in problem solving, independent study and critical thinking, and to be able to adapt knowledge to new situations and to the benefit of society. Students in these plans attain a sense of professional values and ethics as well as knowledge and skills relevant to their specific subject area. This sense of professional responsibility is essential if society is to benefit from the interfaces with advanced technology and science.

The college supports research and development directed toward producing new knowledge and identifying additional applications of existing knowledge. Dissemination of scientific knowledge through publications and presentations is encouraged, as well as professional service to local, regional, national and international communities.

Accreditations and Approvals

Various programs in CSE are accredited by the following organizations: The undergraduate degree plans in Computer Science and Computer Information Systems are accredited by the Computer Accreditation Commission of ABET, http://www.abet.org. The undergraduate degree plan in Computer Engineering is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org. The Chemistry Program has complete accreditation from the American Chemical Society (ACS). The undergraduate Environmental Science-Industrial Hygiene and Safety plans are accredited by the Applied Science Commission of ABET, http://www.abet.org. The collaborative UHCL-UTMB Bachelor of Science in Biology-Masters of Clinical Laboratory Sciences degree plan is pending the Souther Associtation of Colleges and Schools approval.

Departments

The College of Science and Engineering has five departments. The faculty of each department aspires to a professional model that includes balance among the components of the CSE mission: teaching, research and service.

- Department of Computing Sciences
- Department of Engineering
- Department of Physical and Applied Sciences
- Department of Biological and Environmental Sciences
- Department of Mathematics and Statistics

Contact Us

Office of the Dean Phone: 281-283-3703

Web: www.uhcl.edu/science-engineering

Bayou Building 3611

Office of Academic Advising

Phone: 281-283-3711

Email: cseadvising@uhcl.edu

Web: www.uhcl.edu/science-engineering/advising

Bayou Building 3611

Admission into an CSE Degree Plan

Following admission to the university, students' transcript evaluations are forwarded to the Office of Academic Advising. Students are notified of their admission status by the associate dean. Once accepted to a degree plan, students will receive their degree plan from their academic adviser during their first semester of study. The CPS delineates specific requirements of a study area and must be completed during the semester of acceptance into a degree plan.

Requirements for Undergraduate Plans

Undergraduate students are required to satisfy the university undergraduate degree requirements described earlier in this catalog. Students pursuing bachelor's degrees must complete a minimum of 120 semester hours.

Courses noted on the CPS as academic core courses must be completed with a grade of "C-" or better. Some plans may require a grade of "C" or better in courses taken in the academic core.

Department of Biological and Environmental Science

Students desiring to study in the biological and environmental science department may choose from the undergraduate plans below. Applicants should consult the chair of the division for additional information.

Undergraduate Degrees

- · Biological Science B.A.
- Biological Science B.A. with Life Sciences 7-12 Certification
- Biological Science B.S.
- Biology Scholars Plan Linked B.S.-M.S. Degree Plans in Biology
- Biological Sciences B.S.-M.S. Clinical Laboratory Sciences
- · Environmental Science B.S.
- Environmental Science Scholars Plan-Linked B.S.-M.S. Degree Plans in Environmental Science

Certificates

Biotechnology

Minors

- Biology
- Environmental Science

Department of Computing Sciences

Students desiring to study in the computing sciences may choose any one of the undergraduate plans below. Applicants should consult the chair of the division for additional information.

Undergraduate Degrees

- Computer Science B.S.
- Computer Science Scholars Plan-Linked B.S.-M.S. Degree plans in Computer Science
- Information Technology B.S.
- · Information Technology B.A.S.
- · Computer Information Systems B.S.

Minors

Cybersecurity

Accreditations

The undergraduate degree plans in Computer Science and Computer Information Systems are accredited by the Computer Accreditation Commission of ABET, http://www.abet.org

Department of Engineering

Students desiring to study in the engineering department may choose from the undergraduate plans below. Applicants should consult the chair of the division for additional information.

Undergraduate Degrees

- · Computer Engineering B.S.
- Pre-Engineering

Accreditations

The Computer Engineering program at University of Houston–Clear Lake is accredited by the Engineering Accreditation Commission of Accreditation Board for Engineering and Technology (ABET).

Department of Mathematics and Statistics

Students desiring to study in the mathematics and statistics department may choose from the undergraduate plans below. Applicants should consult the chair of the division for additional information.

UHCL Mathematics and Department Placement and Testing Policy

All students enrolling in MATH 2412 (Pre-Calculus or any other course requiring College Algebra as a prerequisite), MATH 2413 (Calculus I) or MATH 2414 (Calculus II) need at the date of registration:

- 1. An acceptable score on the UHCL Mathematics Placement Exam or
- 2. Evidence of successful completion of:
 - The prerequisite university mathematics course or
 - b. The Advance Placement (AP) Exam equivalent to the prerequisite university mathematics course or
 - c. The College Level Examination Program (CLEP) Exam equivalent to the prerequisite university mathematics course.

Undergraduate Degrees

- · Mathematical Science B.A.
- Mathematical Science B.A. with Mathematics 4-8 Certification
- Mathematical Science B.A. with Mathematics 7-12 Certification
- · Mathematical Science B.S.
- Mathematical Science B.S. with Mathematics 7-12 Certification
- Mathematics Scholars Plan-Linked B.S.-M.S. degree plans in Mathematics

Minors

- Mathematics
- · Actuarial Science

Department of Physical and Applied Sciences

Students desiring to study in the physical and applied sciences department may choose from the undergraduate plans below. The department of physical and applied sciences also include the plans of Industrial Hygiene, Safety and Geology under the degree of Environmental Science. Students should consult the chair of the division for additional information.

Undergraduate Degrees

- · Chemistry B.A.
- · Chemistry B.S.
- · Chemistry Scholars Plan Linked B.S.-M.S. Degree Plans in Chemistry
- · Physics B.S.
- Physics Scholars Plan Linked B.S.-M.S. Degree Plans in Physics

Minors

- Physics
- Astronomy
- Chemistry
- Geology

Accreditations

Various programs in CSE are accredited by the following organizations: The Chemistry Program has complete accreditation from the American Chemical Society (ACS). The undergraduate Environmental

Science-Industrial Hygiene and Safety plans are accredited by the Applied Science Commission of ABET, http://www.abet.org.

Degrees and Programs

Bachelors

Accounting B.S.

Undergraduate students majoring in accounting have two options: the bachelor of science degree in Accounting an the integrated bachelor of science/master of science degrees in Professional Accounting.

The objective of the bachelor of science degree in Accounting is to provide basic conceptual accounting and business knowledge as a foundation for entry level positions in industry, financial institutions and non-profit organizations, as well as to provide a basis for further study to pursue a career in public accounting.

University Core Requirements (42 Hours)

A minimum of 57 Upper-Level (33XX and 43XX) hours and a total of 120 hours are required for the baccalaureate degree. A minimum cumulative GPA of 2.0 or higher is required to graduate.

Communication (6 hours)	
WRIT 1301	Composition I Credit Hours: 3
WRIT 1302	Composition II Credit Hours: 3
Additional Information Grades must be C- or higher	
Mathematics (3 hours)	

MATH 1324	Mathematics for Business and Social Sciences. Credit Hours: 3
Additional Information Grade in Finite Math must be C- or higher.	
Life and Physical Sciences (6 h	iours)
Choose two course from the approved	d list
ASTR 1303	Stars and Galaxies Credit Hours: 3
ASTR 1304	Solar System Credit Hours: 3
BIOL 1306	Biology for Science Majors I Credit Hours: 3
BIOL 1307	Biology for Science Majors II Credit Hours: 3
BIOL 1308	Biology for Non-Science Majors I
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3
BIOL 2301	Anatomy & Physiology I Credit Hours: 3
BIOL 2302	Anatomy & Physiology II Credit Hours: 3
CHEM 1305	Introductory Chemistry I Credit Hours: 3
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II Credit Hours: 3
ENSC 1301	Environmental Science I Credit Hours: 3
ENSC 1302	Environmental Science II Credit Hours: 3
GEOL 1303	Physical Geology Credit Hours: 3
GEOL 1304	Historical Geology Credit Hours: 3
PHYS 1301	College Physics I Credit Hours: 3
PHYS 1302	College Physics II Credit Hours: 3

University Physics I Credit Hours: 3

University Physics II Credit Hours: 3

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PHYS 2325

PHYS 2326

Choose one course from the ap	proved list	
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
Choose one course from the ap	proved list	
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
American History (6 hour	s)	
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Sci	ence (6 hours)	
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social and Behavioral Sciences (3 hours) Choose one course from the approved list		
ECON 2301	Principles of Macroeconomics Credit Hours: 3	
Additional Information Other courses may meet this requirement, however, ECON 2301 will still be required for all Business majors)		
Component Area Option (6 hours)		
Two 1- hour Life and Physical Science Labs		
COMM 1315	Public Speaking	

	Learning Frameworks
	Credit Hours: 1

College Core Requirements (48 hours)

To assist students in obtaining sufficient background to prepare for Upper–Level business courses, the following curriculum is required. The following courses, constitute the business core and are required of all business students. No more than 6 hours of grades in the range of D+, D or D- are permitted in Upper–Level (33XX and 43XX) Business Core Requirements.

Core Requirements for Business Majors (48 hours)		
ACCT 2301	Principles of Accounting I - Financial Credit Hours: 3	
ACCT 2302	Principles of Accounting II- Managerial Credit Hours: 3	
BAPA 1301	Business Principles Credit Hours: 3	
ECON 2302	Principles of Microeconomics Credit Hours: 3	
ISAM 1305	Business Computer Applications Credit Hours: 3	
LEGL 2301	Legal Environment of Business Credit Hours: 3	
MATH 1325	Calculus for Business and Social Sciences Credit Hours: 3	
DSCI 3321	Statistics I Credit Hours: 3	
DSCI 3331	Quantitative Methods for Management Credit Hours: 3	
ECON 3311	Money and Banking Credit Hours: 3	
FINC 3331	Business Finance Credit Hours: 3	
ISAM 3303	Information Systems for Management Credit Hours: 3	
MGMT 3301	Management Theory and Practice Credit Hours: 3	

MGMT 4312	Strategic Management (Capstone)
	Credit Hours: 3
	orean means. y
MKTG 3301	Principles of Marketing
mitte jjoi	1 0
	Credit Hours: 3
WRIT 3312	Written Communications in Business
33	Cradit House, 2
	Credit Hours: 3
Additional Information	
Auditional information	
MGMT 4312 Capstone courserequires permission.	
MGMT 4312 Capatonic course requires permission.	

Major Requirements (21 hours)

All courses within the Major Requirements must be completed with a grade of C- or better. A minimum cumulative GPA of 2.0 or higher is required to graduate.

Major Requirements (21 hours)	
ACCT 3333	Cost Accounting Credit Hours: 3
ACCT 3341	Intermediate Accounting I Credit Hours: 3
ACCT 3342	Intermediate Accounting II Credit Hours: 3
ACCT 4331	Federal Taxation of Individuals Credit Hours: 3
ACCT 4332	Financial Information Systems Credit Hours: 3
ACCT 4341	Auditing I Credit Hours: 3
ACCT 4352	Advanced Financial Accounting Credit Hours: 3

Elective Requirements (9 hours)

Elective Requirements (9 hours)
3 hours BUS Elective Upper–Level, (Any ACCT, DSCI, FINC, ISAM, MGMT, or MKTG) 33XX or 43XX6 hours of Accounting Upper–Level Electives, 33XX or 43XX
Additional Information

ACCT 3331 and ACCT 3332 cannot be used as electives of any kind.

Addictions Counseling B.S.

The Bachelor of Science in Addictions Counseling is a 120-semester hour degree program that provides the student with a comprehensive understanding of addiction and their effects, along with counseling techniques and methods to prevent relapse. Successful completion of the addictions counseling degree ensures the student has completed the coursework required to graduate and apply for licensure with the Texas State Department of Health Services to become a Licensed Chemical Dependency Counselor.

University Core Requirements (42 hours):

Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
Choose ONE course from the UHCL core approved list.		
Life and Physical Sciences (6 hours)		
Choose TWO courses from the UHCL core approved list.		
Language, Philosophy and Culture (3 hours)		
Choose ONE course from the UHCL core approved list.		
Creative Arts (3 Hours)		
Choose ONE course from the UHCL core approved list.		
American History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		

POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social and Behavioral Sciences (3 hours)		
SOCI 1301	Introduction to Sociology Credit Hours: 3	
Component Area Option (6 hours)		
Two 1- hour Life and PhysicalScience Labs		
COMM 1315	Public Speaking Credit Hours: 3	
PSYC 1100	Learning Frameworks Credit Hours: 1	

Major Requirements (78 hours):

Addictions Counseling Courses	
COUN 1301	Introduction to Counseling Credit Hours: 3
COUN 2301	Addictions in Counseling I Credit Hours: 3
COUN 2302	Counseling Theories Credit Hours: 3
COUN 2303	Crisis Assessment, Intervention, and Prevention Credit Hours: 3
COUN 3301	Developmental Counseling Credit Hours: 3
COUN 3303	Counseling Skills Credit Hours: 3
COUN 3304	Group Therapy Credit Hours: 3
COUN 3305	Diagnostics & Assessments Credit Hours: 3
COUN 3306	Career Counseling Credit Hours: 3
COUN 3307	Stress Management Credit Hours: 3
COUN 3312	Social and Political Intervention in Addictions Counseling Credit Hours: 3
COUN 4301	Ethical Decision-Making for Addictions Counselors Credit Hours: 3

COUN 4302	Psychopharmacology Credit Hours: 3
COUN 4303	Family Dynamics Credit Hours: 3
COUN 4304	Child and Adolescent Counseling Credit Hours: 3
COUN 4307	Case Management Credit Hours: 3
COUN 4308	Addictions Counseling II Credit Hours: 3
COUN 4309	Practicum Credit Hours: 3

Other Required Courses (24 hours)	
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3
EDUC 3301	Introduction to Educational Statistics and Measurement Credit Hours: 3
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
FINC 3301	Personal Money Management Credit Hours: 3
MGMT 3301	Management Theory and Practice Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3
WRIT 3307	Advanced Writing Credit Hours: 3
LEGL 4352	Family Law and Procedure Credit Hours: 3
LEGL 4355	Criminal Law and Procedure Credit Hours: 3

General Degree Requirements

- Students must complete at least 120 semester credit hours. A minimum of 45 hours of the 120 semester hours must be advanced (3000–4000 level) course work according to the requirements of the respective major.
- Students must complete the University Core Curriculum requirements (refer to

- Core Curriculum Requirements in the UHCL Catalog).
- Students must fulfill the statutory requirements of the Texas State Education Code, including the following:
 - Six hours of U.S. History (three hours may be Texas History).
 - Six hours of Constitutions of the United States and Texas.
- Students must demonstrate writing proficiency by completing nine hours of lower-level (1000-2000 level) and upper-level (3000-4000 level) English composition course credit with a minimum grade of "C-" or better. Some majors may require higher grades in English composition.
- Students must complete at least 25% of the credit hours required for the degree (i.e., 30 semester credit hours for a 120 credit hour program) through instruction offered by UHCL to fulfill the Southern Association of Colleges and Schools (SACS) residency requirements.
- Students must complete the final 30 semester hours of 3000 and 4000 level course work in residence at UHCL.
- Students must complete a minimum of 12 semester credit hours of upper-level (3000-4000 level) coursework in the major in residence at UHCL.
- Students must have a cumulative GPA of 2.000 on course work completed at UHCL with grades of "C" or better on at least 30 hours of resident upper-level work. Grades of "C-" or below cannot be applied toward the 30 hours of resident upper-level work

Anthropology B.S.

The Anthropology program emphasizes the study of the whole human being. It is focused on understanding diversity in Houston, the United States, and the world. Through coursework, students explore world cultures and global challenges as well as methods for studying peoples and cultures. The major prepares students to be global citizens by promoting skills for engaging responsibly and ethically in diverse communities in the United States and globally. In particular, the major fosters a number of skills, including cross-cultural communication, critical thinking and writing, and qualitative research and data analysis, which prepare students to respond creatively to the challenges of Houston's diverse and dynamic employment sector. Anthropology students have opportunities for many exciting site visits to Houston's diverse neighborhoods.

University Core Requirements (42 Hours)

Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
Choose ONE of the following courses.		
MATH 1314	College Algebra Credit Hours: 3	
MATH 1332	Contemporary Mathematics Credit Hours: 3	
Life and Physical Sciences (6 hours)		
Choose TWO of the following courses.		
ASTR 1303	Stars and Galaxies Credit Hours: 3	

A COTTO		
ASTR 1304	Solar System Credit Hours: 3	
BIOL 1306	Biology for Science Majors I Credit Hours: 3	
BIOL 1307	Biology for Science Majors II Credit Hours: 3	
BIOL 1308	Biology for Non-Science Majors I	
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3	
BIOL 2301	Anatomy & Physiology I Credit Hours: 3	
BIOL 2302	Anatomy & Physiology II Credit Hours: 3	
CHEM 1305	Introductory Chemistry I Credit Hours: 3	
CHEM 1311	General Chemistry I	
CHEM 1312	General Chemistry II Credit Hours: 3	
ENSC 1301	Environmental Science I Credit Hours: 3	
ENSC 1302	Environmental Science II Credit Hours: 3	
GEOL 1303	Physical Geology Credit Hours: 3	
GEOL 1304	Historical Geology Credit Hours: 3	
PHYS 1301	College Physics I Credit Hours: 3	
PHYS 1302	College Physics II Credit Hours: 3	
PHYS 2325	University Physics I Credit Hours: 3	
PHYS 2326	University Physics II Credit Hours: 3	
Language, Philosophy and Culture (3 hours)		
Choose ONE of the following courses.		
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	

WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
Choose ONE of the following courses.		
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
U.S. History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social Behavioral Sciences (3 ho	ours)	
Choose ONE of the following courses.		
ANTH 2346	General Anthropology Credit Hours: 3	
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3	
ECON 2301	Principles of Macroeconomics Credit Hours: 3	
ECON 2302	Principles of Microeconomics Credit Hours: 3	
GEOG 1303	World Regional Geography Credit Hours: 3	
PSYC 2301	Introduction to Psychology Credit Hours: 3	
SOCI 1301	Introduction to Sociology Credit Hours: 3	
Public Speaking (3 hours)		
COMM 1315	Public Speaking Credit Hours: 3	

Component Area Options (3 hours)	
Two 1- hour Life and Physical Science Labs - required co-requisites for the chosen science courses.	
PSYC 1100	Learning Frameworks Credit Hours: 1

College Core Requirements (3 hours)

48 hours of upper–level credit must be "C" or better.

Core Requirement (3 hours)	
Choose ONE of the following.	
WRIT 3306	Writing for the Social Sciences Credit Hours: 3
WRIT 3307	Advanced Writing Credit Hours: 3

Major Requirements (42 hours)

Choose ONE of:		
HUMN 3374 and HUMN 3375 are strong	gly recommended.	
HUMN 3374	Critical Inquiry Credit Hours: 3	
HUMN 3375	Ideas in Transition Credit Hours: 3	
LITR 3334	Mythology Credit Hours: 3	
PHIL 3331	Ethics Credit Hours: 3	
PHIL 4314	The Great Philosophers I Credit Hours: 3	
PHIL 4315	The Great Philosophers II Credit Hours: 3	
Choose ONE of:		
ANTH 4372 is strongly recommended.		
ANTH 4372	Applied Qualitative Methods Credit Hours: 3	
PSYC 4371	Experimental Methods and Statistics Credit Hours: 3	
Choose ONE of:		

GEOG 4321	Fundamentals of Geographic Information Systems Credit Hours: 3
PSYC 4370	Nonexperimental Methods and Statistics Credit Hours: 3
SOCI 4384	Statistics Credit Hours: 3

Diversity Requirement

Choose TWO of the following courses. For ANTH 4341, the following may be substituted: SOCI 4341 or WGST 4341For PSYC 4356, the following may be substituted: SOCI 4356

ANTH 3355	Topics in Asian Studies Credit Hours: 3
ANTH 3357	Topics in African Studies Credit Hours: 3
ANTH 3358	Topics in Middle Eastern Societies Credit Hours: 3
ANTH 4301	Studies in Cultural Diversity Credit Hours: 3
ANTH 4333	Peoples of Mexico and Central America Credit Hours: 3
ANTH 4341	Gender and Sexuality in Global Perspectives Credit Hours: 3
PSYC 4308	Perspectives in Women's and Gender Studies Credit Hours: 3
PSYC 4334	Psychology of Women Credit Hours: 3
PSYC 4356	The Aging Experience Credit Hours: 3
SOCI 3352	Urban Sociology Credit Hours: 3
SOCI 4316	Women and the Law Credit Hours: 3
SOCI 4317	Race and the Law Credit Hours: 3
SOCI 4355	Minorities in America Credit Hours: 3
SWRK 3324	Oppression, Diversity, and Social Justice Credit Hours: 3
Anthropology	

ANTH 3311	Contemporary Cultural Anthropology Credit Hours: 3
Choose ONE of:	
SOCI 4312	Social Structure: Class, Power, and Status Credit Hours: 3
SOCI 4322	Theories of Society Credit Hours: 3
Choose ONE of:	
PSYC 3331	Theories of Personality Credit Hours: 3
PSYC 4311	Social Psychology Credit Hours: 3
Subject Requirements	
Choose TWO of the following courses.	
ANTH 3352	Political/Economic Anthropology Credit Hours: 3
ANTH 3361	Anthropology of Food Credit Hours: 3
ANTH 3362	Medicine, Bodies, and Culture Credit Hours: 3
ANTH 4301	Studies in Cultural Diversity Credit Hours: 3
ANTH 4341	Gender and Sexuality in Global Perspectives Credit Hours: 3
ANTH 4342	Human Rights and Social Justice Credit Hours: 3
ANTH 4343	Anthropological Perspectives on World Religion Credit Hours: 3
ANTH 4351	Families, Communities, and Globalization Credit Hours: 3
ANTH 4352	World Prehistory and Archaeology Credit Hours: 3
ANTH 4364	Visual Anthropology Credit Hours: 3
Area Requirement	
Choose TWO of the following courses.	
ANTH 3355	Topics in Asian Studies Credit Hours: 3

ANTH 3357	Topics in African Studies Credit Hours: 3
ANTH 3358	Topics in Middle Eastern Societies Credit Hours: 3
ANTH 4333	Peoples of Mexico and Central America Credit Hours: 3
ANTH 4334	Native Americans Credit Hours: 3
Required Anthropology Electives	

Choose TWO ANTH courses (3 hours must be 3300/4300 level.)

Electives (33 hours)

Students may complete a Minor with elective hours. (30 hours may be from the 1300/2300 level. 3 hours must be from any 3300/4300 level courses.)

Anthropology Concentration Areas

In order to organize their studies, explore a specific topic, and prepare for careers, students may select one of the following concentrations. Students who complete a concentration will receive a certificate. For more information, contact a full-time Anthropology faculty member. Concentration areas may be found below.

International and Global Studies	
Select THREE of the following courses.	
ANTH 3355	Topics in Asian Studies Credit Hours: 3
ANTH 3357	Topics in African Studies Credit Hours: 3
ANTH 3358	Topics in Middle Eastern Societies Credit Hours: 3
ANTH 4333	Peoples of Mexico and Central America Credit Hours: 3
ANTH 4334	Native Americans Credit Hours: 3
GEOG 1303	World Regional Geography Credit Hours: 3

GEOG 4302	Geography of Latin America Credit Hours: 3	
Latin American Studies		
Select THREE of the following courses.		
ANTH 4333	Peoples of Mexico and Central America Credit Hours: 3	
GEOG 4302	Geography of Latin America Credit Hours: 3	
HIST 3319	Colonial Latin America Credit Hours: 3	
HIST 3321	Modern Latin America Credit Hours: 3	
HIST 3323	History of Mexico Credit Hours: 3	
HIST 4309	Studies in Latin American History Credit Hours: 3	
WGST 4314	Latina Social Movements in the Americas Credit Hours: 3	
Middle Eastern Studies		
Select THREE of the following courses. Eastern country.	ANTH 4330 when the topic is Middle	
ANTH 3358	Topics in Middle Eastern Societies Credit Hours: 3	
ANTH 4330	Cultural Study Abroad Credit Hours: 3	
SOCI 4329	Egypt in Transition Credit Hours: 3	
Women, Gender, and Sexuality		
Select THREE of the following courses. ANTH 4301 when the topic is Violence Against Women or Women of Color.		
ANTH 4301	Studies in Cultural Diversity Credit Hours: 3	
ANTH 4341	Gender and Sexuality in Global Perspectives Credit Hours: 3	
ANTH 4351	Families, Communities, and Globalization Credit Hours: 3	
WGST 4314	Latina Social Movements in the Americas Credit Hours: 3	

Social Justice		
Select THREE of the following courses.ANTH 4301 when the topic is Police Culture or Violence Against Women.		
ANTH 3361	Anthropology of Food Credit Hours: 3	
ANTH 3362	Medicine, Bodies, and Culture Credit Hours: 3	
ANTH 4301	Studies in Cultural Diversity Credit Hours: 3	
ANTH 4342	Human Rights and Social Justice Credit Hours: 3	
ANTH 4301	Studies in Cultural Diversity Credit Hours: 3	
Health in Cross-Cultural Perspectives		
In addition to ANTH 3361 and ANTH 3362, students must complete one additional 3300 level ANTH course.		
ANTH 3361	Anthropology of Food Credit Hours: 3	
ANTH 3362	Medicine, Bodies, and Culture Credit Hours: 3	

Art and Design B.F.A. with Grades EC-12 Art Certification

Note: This degree requires a minimum of 127 credit hours.

The B.F.A. in Art and Design with EC-12 Art Certification leads to a B.F.A. in Art and Design. The teacher certification prepares students to teach art at any level from early childhood through high school.

University Core Requirements (42 Hours)

Communication (6 hours)	
WRIT 1301	Composition I Credit Hours: 3

WRIT 1302	Composition II Credit Hours: 3
Mathematics (3 hours)	
Choose ONE of the following courses.	
MATH 1314	College Algebra Credit Hours: 3
MATH 1332	Contemporary Mathematics Credit Hours: 3
Life and Physical Sciences (6 ho	urs)
Choose TWO of the following courses.	
ASTR 1303	Stars and Galaxies Credit Hours: 3
ASTR 1304	Solar System Credit Hours: 3
BIOL 1306	Biology for Science Majors I Credit Hours: 3
BIOL 1307	Biology for Science Majors II Credit Hours: 3
BIOL 1308	Biology for Non-Science Majors I
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3
BIOL 2301	Anatomy & Physiology I Credit Hours: 3
BIOL 2302	Anatomy & Physiology II Credit Hours: 3
CHEM 1305	Introductory Chemistry I Credit Hours: 3
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II Credit Hours: 3
ENSC 1301	Environmental Science I Credit Hours: 3
ENSC 1302	Environmental Science II Credit Hours: 3
GEOL 1303	Physical Geology Credit Hours: 3
GEOL 1304	Historical Geology Credit Hours: 3
PHYS 1301	College Physics I Credit Hours: 3
PHYS 1302	College Physics II Credit Hours: 3

PHYS 2325	University Physics I Credit Hours: 3
PHYS 2326	University Physics II Credit Hours: 3
Language, Philosophy and Cultur	e (3 hours)
Choose ONE of the following courses.	
HUMN 1301	Humanities Credit Hours: 3
LITR 2341	Literature and Experience Credit Hours: 3
PHIL 1301	Introduction to Philosophy Credit Hours: 3
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3
Creative Arts (3 Hours)	
ARTS 1303	World Art Survey I Credit Hours: 3
U.S. History (6 hours)	
HIST 1301	United States History I Credit Hours: 3
HIST 1302	United States History II Credit Hours: 3
Government/ Political Science (6	6 hours)
POLS 2305	Federal Government Credit Hours: 3
POLS 2306	Texas Government Credit Hours: 3
Social Behavioral Sciences (3 ho	urs)
Choose ONE of the following courses.	
ANTH 2346	General Anthropology Credit Hours: 3
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3
ECON 2301	Principles of Macroeconomics Credit Hours: 3
ECON 2302	Principles of Microeconomics Credit Hours: 3
GEOG 1303	World Regional Geography Credit Hours: 3

PSYC 2301	Introduction to Psychology Credit Hours: 3	
SOCI 1301	Introduction to Sociology Credit Hours: 3	
Public Speaking (3 hours)		
COMM 1315	Public Speaking Credit Hours: 3	
Component Area Options (3 hours)		
Two 1- hour Life and PhysicalScience Labs - required co-requisites for the chosen science courses.		
PSYC 1100	Learning Frameworks Credit Hours: 1	

College of Human Sciences and Humanities Core Requirements (6 hours)

48 hours of upper-level credit must be "C" or better.

Core Requirement (3 hours)		
Choose ONE of the following courses.		
WRIT 3304	Writing for Education Credit Hours: 3	
WRIT 3307	Advanced Writing Credit Hours: 3	
Additional Information Grade of "B-" or better is required.		
Humanities Requirements (3 hours)		
Choose ONE of the following courses. Students may also choose a 4300-level Art History elective to fulfill this requirement. (This Art History elective cannot satisfy the requirements for any other part of the degree.)		
HUMN 3375	Ideas in Transition Credit Hours: 3	
PHIL 4314	The Great Philosophers I Credit Hours: 3	
PHIL 4315	The Great Philosophers II	

Credit Hours: 3

College of Education Core Requirements (18 hours)

Core Requirements	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3
SPED 2301	Introduction to Special Populations Credit Hours: 3
SPED 4300	Survey of Exceptionalities Credit Hours: 3
TCED 1301	Exploring Teaching as a Profession Credit Hours: 3

Teacher Education Program (TEP) Admission Requirements

- · Completion of 60 semester credit hours.
- Completion of prerequisite coursework (EDUC 4310, INST 3313, and SILC 4315.)
- · Completion of public speaking requirement.
- Completion of Basic Skills in Reading, Mathematics, and Writing.
- 2.750 GPA overall or in the last 60 semester credit hours.
- Completion of 12 semester credit hours in the subject-specific content area for target teacher certification.
- Application for admission to the Teacher Education Program (TEP).

Major Requirements (43 hours)

Required Courses	
Choose between ARTS 3352 or ARTS 2371. In addition, students must complete a 4300-level Art History elective and a 4300-level Studio Art elective.	
ARTS 1304	World Art Survey II Credit Hours: 3
ARTS 1311	Design Foundations Credit Hours: 3

Drawing Foundations Credit Hours: 3
Digital Photography Credit Hours: 3
Sculpture Credit Hours: 3
Ceramics Credit Hours: 3
Intermediate Drawing Credit Hours: 3
Intermediate Painting Credit Hours: 3
Printmaking Credit Hours: 3
Traditional Photography Credit Hours: 3
Graphic Design Credit Hours: 3
Crafts Design Credit Hours: 3
Reading in Content Subjects Credit Hours: 3
Secondary (4-8 and 7-12) Content Teacher Seminar Credit Hours: 1

Additional Information

- ARTS 4374 is preferred for the Art History elective.
- · GPA of 2.500 or higher required in ARTS and LLLS coursework.

Pedagogy Requirements (18 hours)

Courses	
ARTS 4300	Methods in Elementary Art Education Credit Hours: 3
ARTS 4301	Methods in Secondary Art Education Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3
TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9

Additional Information

- Enrollment in the courses listed above requires admission to the TEP.
- 3.000 GPA required in pedagogy coursework.
- TCED 4378 Pre-Service Internship I must be taken in the long semester immediately preceding the final semester.

TCED 4978 Pre-Service Internship II must be taken in the final semester.

Teacher Certification Requirements

- Passing scores on the appropriate state assessments (Texas Examinations of Educator Standards [TExES]) are required for recommendation for teacher certification.
 - EC-12 Art TExES #178
 - EC-12 Pedagogy and Professional Responsibilities TExES #160
- All courses outside the University Core must be "C-" or better unless otherwise stated.

Art and Design B.F.A. with Graphic Design Concentration

The undergraduate major in Art and Design leads to the Bachelor of Fine Arts (B.F.A.) in Art and Design. Its flexibly structured program prepares students for professional careers and graduate studies while supporting the liberal arts tradition. The degree leads to careers and teaching positions in graphic design, studio art, lens media (photography and video), visual communication, and teaching certification at all levels (EC-12). Students often choose the Art and Design major to develop creativity and the capacity for critical thinking about visual culture.

There are three distinct and interrelated concentrations within the Art and Design major: Graphic Design, Studio Art, and EC-12 Teacher Certification. The Graphic Design concentration prepares students for the intense visual

requirements of today's computer-based design industry. The Studio Art concentration prepares students to be competitive professional artists as they work in both traditional and contemporary media. The Art and Design B.F.A. with EC-12 certification prepares students to teach art at any level from early childhood through high school.

To earn the B.F.A. degree, students take a minimum of 120 credit hours except for those who are pursuing the B.F.A. with EC-12 certification, who must take a minimum of 127 hours. Students will select the B.F.A. concentration that best satisfies their academic, professional, and artistic goals. The following courses must be completed with a grade of "C" or better: ARTS 1311, ARTS 1316, ARTS 2371, HUMN 3375, PHIL 4314, PHIL 4315, WRIT 3307, and all 4300-level Art History courses.

The Graphic Design concentration includes 45 upper-level hours to be taken from the ARTS rubric and approved COMM courses.

University Core Requirements (42 Hours)

Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
Choose ONE of the following courses:		
MATH 1314	College Algebra Credit Hours: 3	
MATH 1324	Mathematics for Business and Social Sciences. Credit Hours: 3	

MATH 1325	Calculus for Business and Social Sciences Credit Hours: 3
MATH 1332	Contemporary Mathematics Credit Hours: 3
MATH 1342	Elementary Statistical Methods Credit Hours: 3
MATH 1350	Mathematics for Teachers I Credit Hours: 3
MATH 2412	Pre-Calculus Mathematics Credit Hours: 4
MATH 2413	Calculus I Credit Hours: 4

Life and Physical Sciences (6 hours)	
Choose TWO of the following courses.	
ASTR 1303	Stars and Galaxies Credit Hours: 3
ASTR 1304	Solar System Credit Hours: 3
BIOL 1306	Biology for Science Majors I Credit Hours: 3
BIOL 1307	Biology for Science Majors II Credit Hours: 3
BIOL 1308	Biology for Non-Science Majors I
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3
BIOL 2301	Anatomy & Physiology I Credit Hours: 3
BIOL 2302	Anatomy & Physiology II Credit Hours: 3
CHEM 1305	Introductory Chemistry I Credit Hours: 3
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II Credit Hours: 3
ENSC 1301	Environmental Science I Credit Hours: 3
ENSC 1302	Environmental Science II Credit Hours: 3
GEOL 1303	Physical Geology Credit Hours: 3
GEOL 1304	Historical Geology Credit Hours: 3

PHYS 1301	College Physics I Credit Hours: 3
PHYS 1302	College Physics II Credit Hours: 3
PHYS 2325	University Physics I Credit Hours: 3
PHYS 2326	University Physics II Credit Hours: 3
Language, Philosophy an	d Culture (3 hours)
Choose ONE of the following	courses.
HUMN 1301	Humanities Credit Hours: 3
LITR 2341	Literature and Experience Credit Hours: 3
PHIL 1301	Introduction to Philosophy Credit Hours: 3
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3
Creative Arts (3 Hours)	
Choose ONE of the following	courses.
ARTS 1303	World Art Survey I Credit Hours: 3
ARTS 1304	World Art Survey II Credit Hours: 3
ARTS 2379	Arts and the Child Credit Hours: 3
U.S. History (6 hours)	
HIST 1301	United States History I Credit Hours: 3
HIST 1302	United States History II Credit Hours: 3
Government/ Political Sc	cience (6 hours)
POLS 2305	Federal Government Credit Hours: 3
POLS 2306	Texas Government Credit Hours: 3
Social Behavioral Sciences (3 hours)	
Choose ONE of the following courses.	
ANTH 2346	General Anthropology Credit Hours: 3

CRIM 1301	Introduction to Criminal Justice Credit Hours: 3	
ECON 2301	Principles of Macroeconomics Credit Hours: 3	
ECON 2302	Principles of Microeconomics Credit Hours: 3	
GEOG 1303	World Regional Geography Credit Hours: 3	
PSYC 2301	Introduction to Psychology Credit Hours: 3	
SOCI 1301	Introduction to Sociology Credit Hours: 3	
Public Speaking (3 hours)		
COMM 1315	Public Speaking Credit Hours: 3	
Component Area Options (3 hours)		
Two 1- hour Life and Physical Science Labs - required co-requisites for the chosen science courses.		
PSYC 1100	Learning Frameworks Credit Hours: 1	

College Core Requirements (6 hours)

48 hours of upper-level credit must be "C" or better.

Core Requirement		
Choose ONE of the following courses.		
WRIT 3305	Writing for the Humanities Credit Hours: 3	
WRIT 3307	Advanced Writing Credit Hours: 3	
Humanities Requirements (3 hours)		
Choose ONE of the following courses. Students may also choose a 4300-level Art History elective to fulfill this requirement. (This Art History elective cannot satisfy the requirements for any other part of the degree.)		
HUMN 3375	Ideas in Transition Credit Hours: 3	
PHIL 4314	The Great Philosophers I Credit Hours: 3	
PHIL 4315	The Great Philosophers II Credit Hours: 3	

Major Requirements (72 hours)

Lower-Level Art courses	
ARTS 1303	World Art Survey I Credit Hours: 3
ARTS 1304	World Art Survey II Credit Hours: 3
ARTS 1311	Design Foundations Credit Hours: 3
ARTS 1316	Drawing Foundations Credit Hours: 3
ARTS 2371	Digital Photography Credit Hours: 3

Upper-Level Art courses

Students may choose between ARTS 4358 and a 3300/4300-level course in Modern or Contemporary Art History. Students must also complete a 3300/4300-level Art History course.

ARTS 4358	History and Theory of Graphic Design
	Credit Hours: 3

Studio Requirements ARTS 3310 Sculpture Credit Hours: 3 ARTS 3320 Ceramics Credit Hours: 3 ARTS 3333 Life Drawing Credit Hours: 3 ARTS 3340 Printmaking Credit Hours: 3 ARTS 3360 Graphic Design Credit Hours: 3

Graphic Concentration Requirements

Choose 7 courses at the 3300/4300 level with the advice of faculty adviser.

Electives

Choose FOUR courses (any 3300/4300 level)

Seminar Course

This course should be completed during the final semester.

ARTS 4390	Senior Seminar in Art
	Credit Hours: 3

Art and Design B.F.A. with Studio Art Concentration

The undergraduate major in Art and Design leads to the Bachelor of Fine Arts (B.F.A.) in Art and Design. Its flexibly structured program prepares students for professional careers and graduate studies while supporting the liberal arts tradition. The degree leads to careers and teaching positions in graphic design, studio art, lens media (photography and video), visual communication, and teaching certification at all levels (EC-12). Students often choose the Art and Design major to develop creativity and the capacity for critical thinking about visual culture.

There are three distinct and interrelated concentrations within the Art and Design major: Graphic Design, Studio Art, and EC-12 Teacher Certification. The Graphic Design concentration prepares students for the intense visual requirements of today's computer-based design industry. The Studio Art concentration prepares students to be competitive professional artists as they work in both traditional and contemporary media. The Art and Design B.F.A. with EC-12 certification prepares students to teach art at any level from early childhood through high school.

To earn the B.F.A. degree, students take a minimum of 120 credit hours. Students pursuing the B.F.A. with EC-12 certification must take 127 hours. Students will select the B.F.A. concentration that best satisfies their academic, professional, and artistic goals. Students then take 51 credit hours of upper-level coursework to

complete the degree. The following courses must be completed with a grade of "C" or better: ARTS 1311, ARTS 1316, ARTS 2371, HUMN 3375, PHIL 4314, PHIL 4315, WRIT 3307, and all 4300-level Art History courses.

Studio Art requires 45 upper-level hours to be taken from the ARTS rubric.

University Core Requirements (42 Hours)

Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
Choose ONE of the following courses.		
MATH 1314	College Algebra Credit Hours: 3	
MATH 1324	Mathematics for Business and Social Sciences. Credit Hours: 3	
MATH 1325	Calculus for Business and Social Sciences Credit Hours: 3	
MATH 1332	Contemporary Mathematics Credit Hours: 3	
MATH 1342	Elementary Statistical Methods Credit Hours: 3	
MATH 1350	Mathematics for Teachers I Credit Hours: 3	
MATH 2412	Pre-Calculus Mathematics Credit Hours: 4	
MATH 2413	Calculus I Credit Hours: 4	
Life and Physical Sciences (6 hours)		
Choose TWO of the following courses.		
ASTR 1303	Stars and Galaxies Credit Hours: 3	
ASTR 1304	Solar System Credit Hours: 3	

BIOL 1306	Biology for Science Majors I Credit Hours: 3	
BIOL 1307	Biology for Science Majors II Credit Hours: 3	
BIOL 1308	Biology for Non-Science Majors I	
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3	
BIOL 2301	Anatomy & Physiology I Credit Hours: 3	
BIOL 2302	Anatomy & Physiology II Credit Hours: 3	
CHEM 1305	Introductory Chemistry I Credit Hours: 3	
CHEM 1311	General Chemistry I	
CHEM 1312	General Chemistry II Credit Hours: 3	
ENSC 1301	Environmental Science I Credit Hours: 3	
ENSC 1302	Environmental Science II Credit Hours: 3	
GEOL 1303	Physical Geology Credit Hours: 3	
GEOL 1304	Historical Geology Credit Hours: 3	
PHYS 1301	College Physics I Credit Hours: 3	
PHYS 1302	College Physics II Credit Hours: 3	
PHYS 2325	University Physics I Credit Hours: 3	
PHYS 2326	University Physics II Credit Hours: 3	
Language, Philosophy and Culture (3 hours)		
Choose ONE of the following courses.		
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	

Creative Arts (3 Hours)		
Choose ONE of the following courses.		
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
U.S. History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social Behavioral Sciences (3 ho	urs)	
Choose ONE of the following courses.		
ANTH 2346	General Anthropology Credit Hours: 3	
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3	
ECON 2301	Principles of Macroeconomics Credit Hours: 3	
ECON 2302	Principles of Microeconomics Credit Hours: 3	
GEOG 1303	World Regional Geography Credit Hours: 3	
PSYC 2301	Introduction to Psychology Credit Hours: 3	
SOCI 1301	Introduction to Sociology Credit Hours: 3	
Public Speaking (3 hours)		
COMM 1315	Public Speaking Credit Hours: 3	
Component Area Options (3 hours)		

Two 1- hour Life and Physical Science Labs - required co-requisites for the

chosen science courses.

PSYC 1100	Learning Frameworks
	Credit Hours: 1

College Core Requirements (6 hours)

48 hours of upper–level credit must be "C" or better.

Core Requirement		
Choose ONE of the following courses.		
WRIT 3305	Writing for the Humanities Credit Hours: 3	
WRIT 3307	Advanced Writing Credit Hours: 3	
Humanities Requirements (3 hours)		
Choose ONE of the following courses. Students may also choose a 4300 level Art History elective to fulfill this requirement. (This Art History elective cannot satisfy the requirements for any other part of the degree.)		
HUMN 3375	Ideas in Transition Credit Hours: 3	
PHIL 4314	The Great Philosophers I Credit Hours: 3	
PHIL 4315	The Great Philosophers II Credit Hours: 3	

Major Requirements (72 hours)

Lower-Level Art courses	
ARTS 1303	World Art Survey I Credit Hours: 3
ARTS 1304	World Art Survey II Credit Hours: 3
ARTS 1311	Design Foundations Credit Hours: 3
ARTS 1316	Drawing Foundations Credit Hours: 3
ARTS 2316	Painting Credit Hours: 3
ARTS 2371	Digital Photography Credit Hours: 3
Upper-Level Art courses	

Students may choose between ARTS 4374 and a 4300-level course in Modern or Contemporary Art History course. Students must also complete a 4300-level Art History course.

ARTS 4374	Modern Art Credit Hours: 3
Studio Requirements	
ARTS 3310	Sculpture Credit Hours: 3
ARTS 3320	Ceramics Credit Hours: 3
ARTS 3333	Life Drawing Credit Hours: 3
ARTS 3340	Printmaking Credit Hours: 3
ARTS 3360	Graphic Design Credit Hours: 3
Studio Concentration Requirements	

Choose 7 art courses at the 3300//300 level with the advice of faculty adviser.

choose / are courses at the 3500/4500 level with the davice of faculty davise.		
Seminar cour	rse	
ARTS 4390		Senior Seminar in Art Credit Hours: 3

Electives

Choose THREE courses (3300/4300 any level)

Behavioral Sciences B.S. -General

The undergraduate major in Behavioral Sciences leads to the Bachelor of Science (B.S.) degree. This major allows students to combine into one degree courses from an array of disciplines including anthropology, criminology, geography, psychology, social work, and sociology. The philosophy behind this multidisciplinary approach is the recognition that human behavior and societal problems are too complex to be fully covered by one academic discipline. Majors take multidisciplinary core

behavioral science classes and two disciplinary concentrations. Selections are made based on the student's academic and career goals. Students are assigned advisers based on their interests.

University Core Requirements (42 Hours)

Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
Choose ONE of the following courses.		
MATH 1314	College Algebra Credit Hours: 3	
MATH 1332	Contemporary Mathematics Credit Hours: 3	
Life and Physical Sciences (6 hours)		
Choose TWO of the following courses.		
ASTR 1303	Stars and Galaxies Credit Hours: 3	
ASTR 1304	Solar System Credit Hours: 3	
BIOL 1306	Biology for Science Majors I Credit Hours: 3	
BIOL 1307	Biology for Science Majors II Credit Hours: 3	
BIOL 1308	Biology for Non-Science Majors I	
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3	
BIOL 2301	Anatomy & Physiology I Credit Hours: 3	
BIOL 2302	Anatomy & Physiology II Credit Hours: 3	
CHEM 1305	Introductory Chemistry I Credit Hours: 3	
CHEM 1311	General Chemistry I	
CHEM 1312	General Chemistry II Credit Hours: 3	

ENSC 1301	Environmental Science I Credit Hours: 3	
ENSC 1302	Environmental Science II Credit Hours: 3	
GEOL 1303	Physical Geology Credit Hours: 3	
GEOL 1304	Historical Geology Credit Hours: 3	
PHYS 1301	College Physics I Credit Hours: 3	
PHYS 1302	College Physics II Credit Hours: 3	
PHYS 2325	University Physics I Credit Hours: 3	
PHYS 2326	University Physics II Credit Hours: 3	
Language, Philosophy and Culture (3 hours)		
Choose ONE of the following courses.		
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
Choose ONE of the following courses.		
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
U.S. History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		

POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social Behavioral Sciences (3 hours)		
Choose ONE of the following courses.		
ANTH 2346	General Anthropology Credit Hours: 3	
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3	
ECON 2301	Principles of Macroeconomics Credit Hours: 3	
ECON 2302	Principles of Microeconomics Credit Hours: 3	
GEOG 1303	World Regional Geography Credit Hours: 3	
PSYC 2301	Introduction to Psychology Credit Hours: 3	
SOCI 1301	Introduction to Sociology Credit Hours: 3	
Public Speaking (3 hours)		
COMM 1315	Public Speaking Credit Hours: 3	
Component Area Options (3 hours)		
Two 1– hour Life and Physical Science Labs – required co–requisites for the chosen science courses.		
PSYC 1100	Learning Frameworks Credit Hours: 1	

College Core Requirements (3 hours)

48 hours of upper-level credit must be a "C" or better.

Core Requirement (3 hours)	
Choose ONE of the following courses.	
WRIT 3306	Writing for the Social Sciences Credit Hours: 3
WRIT 3307	Advanced Writing Credit Hours: 3

Major Requirements (42 hours)

Courses		
Choose ONE of the following o	ourses.	
HUMN 3374	Critical Inquiry Credit Hours: 3	
HUMN 3375	Ideas in Transition Credit Hours: 3	
LITR 3334	Mythology Credit Hours: 3	
PHIL 3331	Ethics Credit Hours: 3	
PHIL 4314	The Great Philosophers I Credit Hours: 3	
PHIL 4315	The Great Philosophers II Credit Hours: 3	
Statistics and Methods Requirement (first of two)		
Choose ONE of the following o	ourses.	
CRIM 4384	Statistics Credit Hours: 3	
PSYC 4370	Nonexperimental Methods and Statistics Credit Hours: 3	
SOCI 4384	Statistics Credit Hours: 3	
Statistics and Methods Requirement (second of two)		
Choose ONE of the following courses.		
ANTH 4372	Applied Qualitative Methods Credit Hours: 3	
CRIM 4385	Research Methods Credit Hours: 3	
PSYC 4371	Experimental Methods and Statistics Credit Hours: 3	
SOCI 4385	Research Methods Credit Hours: 3	
Diversity Requirement		
Choose TWO of the following courses.For the following courses choose betweenANTH 4341 or SOCI 4341 or WGST 4341PSYC 4356 or SOCI 4356		
ANTH 3358	Topics in Middle Eastern Societies Credit Hours: 3	
ANTH 4301	Studies in Cultural Diversity	

Credit Hours: 3

ANTH 4333	Peoples of Mexico and Central America Credit Hours: 3	
ANTH 4341	Gender and Sexuality in Global Perspectives Credit Hours: 3	
CRIM 4335	Race and Justice Credit Hours: 3	
GEOG 4302	Geography of Latin America Credit Hours: 3	
PSYC 4334	Psychology of Women Credit Hours: 3	
PSYC 4349	Psychology of Latina/os in the U.S. Credit Hours: 3	
PSYC 4356	The Aging Experience Credit Hours: 3	
SOCI 3352	Urban Sociology Credit Hours: 3	
SOCI 4316	Women and the Law Credit Hours: 3	
SOCI 4317	Race and the Law Credit Hours: 3	
SOCI 4355	Minorities in America Credit Hours: 3	
SWRK 3314	Diversity and Human Behavior in the Social Environment Credit Hours: 3	
SWRK 3324	Oppression, Diversity, and Social Justice Credit Hours: 3	
WGST 1302	Perspectives in Women's and Gender Studies Credit Hours: 3	
Choose THREE of the following c	ourses.	
For the following, only one PSYC or SOCI course may be selected:PSYC 3331 or PSYC 4311SOCI 4312 or SOCI 4322		
ANTH 3311	Contemporary Cultural Anthropology Credit Hours: 3	
GEOG 4312	Human Geography Credit Hours: 3	
PSYC 3331	Theories of Personality Credit Hours: 3	
PSYC 4311	Social Psychology Credit Hours: 3	

SOCI 4312	Social Structure: Class, Power, and Status Credit Hours: 3
SOCI 4322	Theories of Society Credit Hours: 3

Concentrations (18 hours)

In order to organize their studies, explore a specific topic, and prepare for future careers, students will take courses from two of the concentrations.

Choose 9 hours out of each of the two of the following six categories. These courses may not be used to fulfill any other requirement

Anthropology Concentration	
ANTH 3311	Contemporary Cultural Anthropology Credit Hours: 3
ANTH 3352	Political/Economic Anthropology Credit Hours: 3
ANTH 3355	Topics in Asian Studies Credit Hours: 3
ANTH 3357	Topics in African Studies Credit Hours: 3
ANTH 3358	Topics in Middle Eastern Societies Credit Hours: 3
ANTH 3361	Anthropology of Food Credit Hours: 3
ANTH 3362	Medicine, Bodies, and Culture Credit Hours: 3
ANTH 4301	Studies in Cultural Diversity Credit Hours: 3
ANTH 4334	Native Americans Credit Hours: 3
ANTH 4341	Gender and Sexuality in Global Perspectives Credit Hours: 3
ANTH 4342	Human Rights and Social Justice Credit Hours: 3
ANTH 4351	Families, Communities, and Globalization Credit Hours: 3

ANTH 4352	World Prehistory and Archaeology Credit Hours: 3	
ANTH 4364	Visual Anthropology Credit Hours: 3	
Criminology Concentration		
CRIM 3312	Criminology Credit Hours: 3	
CRIM 4313	Juvenile Delinquency Credit Hours: 3	
CRIM 4331	Prison and Society Credit Hours: 3	
CRIM 4334	Criminal Law Credit Hours: 3	
CRIM 4338	Policing and Society Credit Hours: 3	
Geography Concentration		
GEOG 4300	Geography of the United States and Canada Credit Hours: 3	
GEOG 4302	Geography of Latin America Credit Hours: 3	
GEOG 4303	Geography of Texas Credit Hours: 3	
GEOG 4312	Human Geography Credit Hours: 3	
GEOG 4317	Introduction to Globalization Credit Hours: 3	
Psychology Concentration	1	
PSYC 3321	Learning Credit Hours: 3	
PSYC 3331	Theories of Personality Credit Hours: 3	
PSYC 4311	Social Psychology Credit Hours: 3	
PSYC 4314	Child Psychology Credit Hours: 3	
PSYC 4315	Adolescent Psychology Credit Hours: 3	
PSYC 4316	Brain and Behavior Credit Hours: 3	
PSYC 4382	Cognitive Psychology Credit Hours: 3	

Sociology Concentration	
SOCI 3312	Criminology Credit Hours: 3
SOCI 3313	Urban and Rural Health Credit Hours: 3
SOCI 3335	Deviance Credit Hours: 3
SOCI 3351	Political Sociology Credit Hours: 3
SOCI 3352	Urban Sociology Credit Hours: 3
SOCI 4312	Social Structure: Class, Power, and Status Credit Hours: 3
SOCI 4322	Theories of Society Credit Hours: 3
SOCI 4323	Religion in Society Credit Hours: 3
SOCI 4324	Organizations in Society Credit Hours: 3
SOCI 4328	Social Conflict and Mediation Credit Hours: 3
SOCI 4341	Women in Society Credit Hours: 3
SOCI 4355	Minorities in America Credit Hours: 3
SOCI 4357	Sociology of Family, Work, and Gender Credit Hours: 3
SOCI 4358	Family and Society Credit Hours: 3
SOCI 4359	Family Policy Credit Hours: 3
SOCI 4363	American Immigration and the Immigrant Experience Credit Hours: 3
SOCI 4364	Medical Sociology Credit Hours: 3
SOCI 4365	Sociology of Mental Health and Illness Credit Hours: 3
SOCI 4367	Women's Health and Sexuality Credit Hours: 3
Social Work Concentration	

SWRK 3301	Introduction to Social Work Credit Hours: 3
SWRK 3304	Issues and Ethics in Social Work Credit Hours: 3
SWRK 3314	Diversity and Human Behavior in the Social Environment Credit Hours: 3
SWRK 3317	Social Welfare Policy and Services Credit Hours: 3
SWRK 3324	Oppression, Diversity, and Social Justice Credit Hours: 3
Elective Requirements (33 hours)	

18 hours may be lower-level electives (any 1300/2300 level courses)15 hours

Biological Science B.A.

must be upper-level (any 3300/4300 level courses)

The plan in Biological Science leads to the bachelor of science (B.S.) or bachelor of arts (B.A.) degree. This plan is designed to prepare students for advanced study, technical positions in environmental or biomedical research or teaching.

The B.A. in Biological Sciences is designed primarily for students interested in teaching biology at the middle or high school level.

Biological Science B.A. Degree Requirements
This degree requires 120 hours and includes 42
hours of University Core. However, some of
the Major Requirements courses listed below
also satisfy University Core. If other courses
are taken to satisfy University Core, the Major
Requirements below are still necessary for
graduation and substitutions are not accepted.

University Core Requirements (42 Hours)

Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
MATH 1314	College Algebra Credit Hours: 3	
Life and Physical Sciences (6 hours)		
CHEM 1311	General Chemistry I	
CHEM 1312	General Chemistry II Credit Hours: 3	
Language, Philosophy and Culture (3 hours)		
Choose one course from the list.		
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
Choose one course from the list.		
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
American History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		

POLS 2305	Federal Government Credit Hours: 3
POLS 2306	Texas Government Credit Hours: 3
Social and Behavioral Sciences	(3 hours)
Choose one course from the list.	
ANTH 2346	General Anthropology Credit Hours: 3
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3
ECON 2301	Principles of Macroeconomics Credit Hours: 3
ECON 2302	Principles of Microeconomics Credit Hours: 3
GEOG 1303	World Regional Geography Credit Hours: 3
PSYC 2301	Introduction to Psychology Credit Hours: 3
SOCI 1301	Introduction to Sociology Credit Hours: 3
Component Area Option (6 hours)	
CHEM 1111	Laboratory for General Chemistry I Credit Hours: 1
CHEM 1112	Laboratory for General Chemistry II Credit Hours: 1
COMM 1315	Public Speaking Credit Hours: 3
PSYC 1100	Learning Frameworks Credit Hours: 1

Major and Elective Requirements (78 hours)

The course of study for the B.A. in Biological Sciences requires 42 hours of University core courses, plus 78 hours of major and elective requirements in the sciences (BIOL, CHEM, ENSC or GEOL) or other areas as approved by the faculty adviser.

Major Courses

Students must complete the following core courses with grades of "C" or better.

BIOL 1306	Biology for Science Majors I Credit Hours: 3
BIOL 1106	Laboratory for Biology for Science Majors I Credit Hours: 1
BIOL 1307	Biology for Science Majors II Credit Hours: 3
BIOL 1107	Laboratory for Biology for Science Majors II Credit Hours: 1
CHEM 1311	General Chemistry I
CHEM 1111	Laboratory for General Chemistry I Credit Hours: 1
CHEM 1312	General Chemistry II Credit Hours: 3
CHEM 1112	Laboratory for General Chemistry II Credit Hours: 1
CHEM 2323	Organic Chemistry I Credit Hours: 3
CHEM 2123	Laboratory for Organic Chemistry I
MATH 1314	College Algebra Credit Hours: 3
Environment Major Courses	
Choose one from the list.	
BIOL 3333	Environmental Biology Credit Hours: 3
BIOL 3311	Marine Biology Credit Hours: 3
BIOL 4305	Ecology of the Amazon Credit Hours: 3
Additional Information	
Required minimum grade for Major I noted. Grades of "C-" and below are	Requirements is "C" unless otherwise not accepted.
Population Major Courses	
Choose one from the list.	
DIOI /244	Ecology Credit Hours: 3
BIOL 4311	
BIOL 3335	Epidemiology Credit Hours: 3
	Epidemiology

Group 1:	
BIOL 2428	Vertebrate Zoology Credit Hours: 4
Group 2:	
BIOL 3313	Plant Anatomy Credit Hours: 3
BIOL 3113	Laboratory for Plant Anatomy Credit Hours: 1
Group 3:	
BIOL 3373	Human Anatomy Credit Hours: 3
BIOL 3173	Laboratory for Human Anatomy Credit Hours: 1
Group 4:	
BIOL 4313	Biology of Fishes Credit Hours: 3
BIOL 4113	Laboratory for Biology of Fishes Credit Hours: 1
Physiology	
Choose one from the list.	
BIOL 4344	Comparative Animal Physiology Credit Hours: 3
BIOL 4345	Human Physiology Credit Hours: 3
BIOL 4343	Plant Physiology Credit Hours: 3
Microbiology and Lab	
BIOL 2321	Microbiology for Science Majors Credit Hours: 3
BIOL 2121	Laboratory for Microbiology for Science Majors Credit Hours: 1
Cellular Biology	
Choose one from the list.	
BIOL 3307	Cell Biology Credit Hours: 3
BIOL 4341	Biochemistry I Credit Hours: 3
Genetics and Lab	

BIOL 3341	Molecular Genetics Credit Hours: 3	
BIOL 3141	Laboratory for Molecular Genetics Credit Hours: 1	
Required Support Courses (grades of C- allowed)		
Required Support Courses (grade	es of C- allowed)	
Required Support Courses (grade STAT 3308	es of C- allowed) Computational Statistics Credit Hours: 3	

Specialization in General Biology Requirements (29 hours)

In addition to the required core courses, students in the General Biology Specialization must complete an additional 36 hours of designated elective courses. These courses may be selected from the list below or other courses from lists above, or as approved by faculty adviser. These courses must be completed with grades of "C-" or better.

Specialization Courses	
BIOL 3306	Development of the Sciences Credit Hours: 3
BIOL 4315	Biology Practicum Credit Hours: 3
BIOL 4334	Environmental Microbiology Credit Hours: 3
BIOL 4323	Field Biology Credit Hours: 3
BIOL 4327	Plant Identification Credit Hours: 3
BIOL 4189	Independent Study in Biology Credit Hours: 1
BIOL 4289	Independent Study in Biology Credit Hours: 2
BIOL 4389	Independent Study in Biology Credit Hours: 3
BIOL 4391	Selected Topics in the Biological Sciences Credit Hours: 3

Additional Information

In addition to the courses listed, any BIOL x3xx Approved Elective will fulfill this requirement.

Biological Science B.S.

The plan in Biological Science leads to the bachelor of science (B.S.) or bachelor of arts (B.A.) degree. This plan is designed to prepare students for advanced study, technical positions in environmental or biomedical research or teaching.

The Physiology/Pre-Health sub-plan within the B.S. plan is particularly applicable to students preparing for medical or dental school or other health-related professions.

Biological Science B.S. Degree Requirements This degree requires 120 hours and includes 42 hours of University Core. However; some of the Major Requirements courses listed below also satisfy University Core. If other courses are taken to satisfy University Core, the Major Requirements below are still necessary for graduation and substitutions are not accepted.

University Core Requirements (42 Hours)

Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
MATH 2413	Calculus I Credit Hours: 4	
Life and Physical Sciences (6 hours)		
Choose two courses from list.		

CHEM 1311	General Chemistry I	
CHEM 1312	General Chemistry II Credit Hours: 3	
Language, Philosophy and Culture (3 hours)		
Choose one course from list.		
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
Choose one course from list.		
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
American History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6	6 hours)	
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social and Behavioral Sciences (3 hours)	
Choose one course from list.		
ANTH 2346	General Anthropology Credit Hours: 3	
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3	
ECON 2301	Principles of Macroeconomics Credit Hours: 3	

ECON 2302	Principles of Microeconomics Credit Hours: 3	
GEOG 1303	World Regional Geography Credit Hours: 3	
PSYC 2301	Introduction to Psychology Credit Hours: 3	
SOCI 1301	Introduction to Sociology Credit Hours: 3	
Component Area Option (6 hours)		
CHEM 1111	Laboratory for General Chemistry I Credit Hours: 1	
CHEM 1112	Laboratory for General Chemistry II	
	Credit Hours: 1	
COMM 1315		

Major and Elective Requirements (78 hours)

The course of study for the B.S. in Biological Science requires 42 hours of University core courses, plus 78 hours of required courses and designated electives within the chosen specialization area. All designated electives must be approved by the faculty adviser. Students must complete the following core courses in biology with grades of "C" or better (grades of "C-" or below are not acceptable). The math and writing core courses must be completed with grades of "C-" or better.

Core Courses	
Students must complete the following core courses in biology with grades of "C" or better (grades of "C-" or below are not acceptable). The math and writing core courses must be completed with grades of "C-" or better.	
BIOL 1106	Laboratory for Biology for Science Majors I Credit Hours: 1
BIOL 1107	Laboratory for Biology for Science Majors II Credit Hours: 1
BIOL 1306	Biology for Science Majors I Credit Hours: 3

BIOL 1307	Biology for Science Majors II Credit Hours: 3
BIOL 3141	Laboratory for Molecular Genetics Credit Hours: 1
BIOL 3341	Molecular Genetics Credit Hours: 3
BIOL 4242	Laboratory for Biochemistry Credit Hours: 2
BIOL 4278	Seminar in Biology Credit Hours: 2
BIOL 4311	Ecology Credit Hours: 3
BIOL 4341	Biochemistry I Credit Hours: 3
CHEM 1111	Laboratory for General Chemistry I Credit Hours: 1
CHEM 1112	Laboratory for General Chemistry II Credit Hours: 1
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II Credit Hours: 3
CHEM 2123	Laboratory for Organic Chemistry I
CHEM 2125	Laboratory for Organic Chemistry II Credit Hours: 1
CHEM 2323	Organic Chemistry I Credit Hours: 3
CHEM 2325	Organic Chemistry II Credit Hours: 3
MATH 2413	Calculus I Credit Hours: 4
PHYS 1101	Laboratory for College Physics I Credit Hours: 1
PHYS 1102	Laboratory for College Physics II Credit Hours: 1
PHYS 1301	College Physics I Credit Hours: 3
PHYS 1302	College Physics II Credit Hours: 3
STAT 3308	Computational Statistics Credit Hours: 3
WRIT 3315	Advanced Technical Writing Credit Hours: 3

Specialization in Cell/Molecular/ Biotechnology Requirements

Siocoomiology modumements		
Specialization Requirements		
BIOL 2121	Laboratory for Microbiology for Science Majors Credit Hours: 1	
BIOL 2321	Microbiology for Science Majors Credit Hours: 3	
BIOL 4342	Biochemistry II Credit Hours: 3	
BIOL 4347	Cellular Physiology Credit Hours: 3	
BIOL 4348	Developmental Biology Credit Hours: 3	
BIOL 4351	Molecular Biology Credit Hours: 3	
Specialization Requirements Courses (3 hours)		
Choose one course from list.		
BIOL 4345	Human Physiology Credit Hours: 3	
BIOL 4344	Comparative Animal Physiology Credit Hours: 3	
BIOL 4343	Plant Physiology Credit Hours: 3	
Course Groups with lab (4 hours):		
Choose one of the groups with lab.		
Group 1:		
BIOL 3373	Human Anatomy Credit Hours: 3	
BIOL 3173	Laboratory for Human Anatomy Credit Hours: 1	
Group 2:		
BIOL 2428	Vertebrate Zoology Credit Hours: 4	
Group 3:		
BIOL 3313	Plant Anatomy Credit Hours: 3	
BIOL 3113	Laboratory for Plant Anatomy Credit Hours: 1	

Specialization Elective Courses (10 hours)	
Choose from the specialization elective courses or other courses from list above.	
BIOL 4332	Histology Credit Hours: 3
BIOL 4346	Pathophysiology Credit Hours: 3
BIOL 4252	Molecular Biology Laboratory Credit Hours: 2
BIOL 4355	Tissue Culture Credit Hours: 3
BIOL 4253	Laboratory for Biotechnology Credit Hours: 2
BIOL 4361	Immunology Credit Hours: 3
BIOL 4254	Laboratory for Eukaryotic Gene Expression Credit Hours: 2
BIOL 4371	Cancer Biology Credit Hours: 3
BIOL 4189	Independent Study in Biology Credit Hours: 1
BIOL 4289	Independent Study in Biology Credit Hours: 2
BIOL 4291	Laboratory Topics in Biology Credit Hours: 2
BIOL 4389	Independent Study in Biology Credit Hours: 3
BIOL 4391	Selected Topics in the Biological Sciences Credit Hours: 3
Additional Information	

Additional Information

In addition to the courses listed, any BIOL x3xx Approved Elective or Elective x3xx Approved Elective will fulfill this requirement.

Specialization in Physiology/Pre-Health Specialization Requirements

Specialization Requirements	
BIOL 2321	Microbiology for Science Majors Credit Hours: 3

BIOL 2121	Laboratory for Microbiology for Science Majors Credit Hours: 1
BIOL 3373	Human Anatomy Credit Hours: 3
BIOL 3173	Laboratory for Human Anatomy Credit Hours: 1
BIOL 4241	Laboratory for Physiology Credit Hours: 2
BIOL 4342	Biochemistry II Credit Hours: 3
BIOL 4345	Human Physiology Credit Hours: 3
BIOL 4361	Immunology Credit Hours: 3
Specialization Requirements Co	ourses (3 hours)
Choose one course from list.	
BIOL 4347	Cellular Physiology Credit Hours: 3
BIOL 4346	Pathophysiology Credit Hours: 3
BIOL 4351	Molecular Biology Credit Hours: 3
Specialization Elective Courses	(11 hours)
Choose from the specialization elective above.	e courses or other courses from list
BIOL 4332	Histology Credit Hours: 3
BIOL 3335	Epidemiology Credit Hours: 3
BIOL 4325	Environmental Toxicology Credit Hours: 3
BIOL 4348	Developmental Biology Credit Hours: 3
BIOL 4253	Laboratory for Biotechnology Credit Hours: 2
BIOL 4371	Cancer Biology Credit Hours: 3
BIOL 4391	Selected Topics in the Biological Sciences Credit Hours: 3
BIOL 4189	Independent Study in Biology

Credit Hours: 1

BIOL 4289	Independent Study in Biology Credit Hours: 2
BIOL 4291	Laboratory Topics in Biology Credit Hours: 2
BIOL 4389	Independent Study in Biology Credit Hours: 3

Additional Information

In addition to the courses listed, any HLTH XX3X Approved Elective, BIOL x3xx Approved Elective or Elective x3xx Approved Elective will fulfill this requirement.

Specialization in Ecology/Microbiology/ Aquatic and Marine Biology Requirements

Physiology		
Choose one from the list.		
BIOL 4343	Plant Physiology Credit Hours: 3	
BIOL 4344	Comparative Animal Physiology Credit Hours: 3	
Anatomy and Lab		
Select one of the following groups:		
Group 1:		
BIOL 2428	Vertebrate Zoology Credit Hours: 4	
Group 2:		
BIOL 3313	Plant Anatomy Credit Hours: 3	
BIOL 3113	Laboratory for Plant Anatomy Credit Hours: 1	
Microbiology and Lab		
BIOL 2321	Microbiology for Science Majors Credit Hours: 3	
BIOL 2121	Laboratory for Microbiology for Science Majors Credit Hours: 1	
Environmental Biology		
BIOL 3333	Environmental Biology Credit Hours: 3	
Field Biology		

BIOL 4323	Field Biology Credit Hours: 3
Specialization Courses (6-7 hor	urs)
Choose two courses from the list.	
BIOL 3311	Marine Biology Credit Hours: 3
BIOL 4325	Environmental Toxicology Credit Hours: 3
BIOL 4313	Biology of Fishes Credit Hours: 3
BIOL 4113	Laboratory for Biology of Fishes Credit Hours: 1
BIOL 4334	Environmental Microbiology Credit Hours: 3
BIOL 4349	Plant Development Credit Hours: 3
Specialization Elective Courses	s (9-10 hours)
Choose from the specialization electival above.	ve courses or other courses from list
BIOL 4327	Plant Identification Credit Hours: 3
BIOL 3335	Epidemiology Credit Hours: 3
BIOL 4305	Ecology of the Amazon Credit Hours: 3
BIOL 4361	Immunology Credit Hours: 3
BIOL 4347	Cellular Physiology Credit Hours: 3
BIOL 4253	Laboratory for Biotechnology Credit Hours: 2
BIOL 4391	Selected Topics in the Biological Sciences Credit Hours: 3
BIOL 4189	Independent Study in Biology Credit Hours: 1
BIOL 4289	Independent Study in Biology Credit Hours: 2
BIOL 4389	Independent Study in Biology Credit Hours: 3
Additional Information In addition to the courses listed, any	BIOL x2xx or x3xx Approved Elective will

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fulfill this requirement.

Specialization in Plant Biology Requirements

Specialization Requirements	
Choose one from the list.	
BIOL 3313	Plant Anatomy Credit Hours: 3
BIOL 3113	Laboratory for Plant Anatomy Credit Hours: 1
BIOL 4343	Plant Physiology Credit Hours: 3
BIOL 4342	Biochemistry II Credit Hours: 3
BIOL 4347	Cellular Physiology Credit Hours: 3
BIOL 4349	Plant Development Credit Hours: 3
Specialization Courses (3 hours)	
Choose from the following specialization from list above.	on elective courses or other courses
BIOL 4351	Molecular Biology Credit Hours: 3
BIOL 4327	Plant Identification Credit Hours: 3
BIOL 3333	Environmental Biology Credit Hours: 3
Specialization Elective Courses ([14 hours)
BIOL 4254	Laboratory for Eukaryotic Gene Expression Credit Hours: 2
BIOL 4349	Plant Development Credit Hours: 3
BIOL 4252	Molecular Biology Laboratory Credit Hours: 2
BIOL 4305	Ecology of the Amazon Credit Hours: 3
BIOL 4189	Independent Study in Biology Credit Hours: 1
BIOL 4289	Independent Study in Biology Credit Hours: 2
BIOL 4291	Laboratory Topics in Biology Credit Hours: 2
BIOL 4315	Biology Practicum Credit Hours: 3

BIOL 4389	Independent Study in Biology Credit Hours: 3
BIOL 4391	Selected Topics in the Biological Sciences Credit Hours: 3

Additional Information

In addition to the courses listed, any BIOL x3xx Approved Elective $\,$ or other approved elective will fulfill this requirement.

Specialization in Forensic Biology Requirements

Specialization Require	ments
BIOL 2321	Microbiology for Science Majors Credit Hours: 3
BIOL 2121	Laboratory for Microbiology for Science Majors Credit Hours: 1
BIOL 3373	Human Anatomy Credit Hours: 3
BIOL 3173	Laboratory for Human Anatomy Credit Hours: 1
BIOL 4342	Biochemistry II Credit Hours: 3
BIOL 4335	Forensic Biology Credit Hours: 3
BIOL 4325	Environmental Toxicology Credit Hours: 3
CHEM 4363	Forensic Chemistry Credit Hours: 3
CHEM 4373	Quantitative Chemical Analysis Credit Hours: 3
CRIM 4330	Criminal Investigation Credit Hours: 3
Additional Specializati	on Requirements
Choose one	
BIOL 4344	Comparative Animal Physiology Credit Hours: 3
BIOL 4345	Human Physiology Credit Hours: 3
Specialization Elective	Courses (4 hours)

Choose from the following specialization elective courses.

BIOL 4347	Cellular Physiology Credit Hours: 3
LEGL 4365	Mock Trial
CHEM 4367	Instrumental Analysis Credit Hours: 3
CRIM 4334	Criminal Law Credit Hours: 3
CRIM 5338	Criminal Law Credit Hours: 3
BIOL 4189	Independent Study in Biology Credit Hours: 1
BIOL 4289	Independent Study in Biology Credit Hours: 2
BIOL 4291	Laboratory Topics in Biology Credit Hours: 2
BIOL 4389	Independent Study in Biology Credit Hours: 3
BIOL 4315	Biology Practicum Credit Hours: 3
BIOL 4391	Selected Topics in the Biological Sciences Credit Hours: 3
Additional Information	

Additional Information

In addition to the courses listed, any BIOL x3xx Approved Elective or other approved elective will fulfill this requirement.

Biological Science B.S. -M.S. Clinical Laboratory Sciences

The University of Houston-Clear Lake College of Science and Engineering and the University of Texas Medical Branch in Galveston have signed an agreement for a collaborative Bachelor of Science in Biological Sciences—Masters of Science in Clinical Laboratory Sciences degree program. Student enrolled in this program

will be required to first attend UHCL for approximately three (3) years, completing a minimum of 92 semester credit hours of undergraduate coursework, including the UTMB-CLS program prerequisite course requirements. Following successful completion of the required curriculum at UHCL, the student will be admitted to the UTMB-CLS Program, contingent upon the following:

- A grade of "B" or better in all required prerequisite courses.
- A cumulative GPA of 3.00 or above for all courses taken in the three year curriculum at UHCL.
- A cumulative GPA of 3.00 or above for all required science courses.
- A positive recommendation by the UTMB Program's Admissions Committee
- A positive record of ethical behavior during enrollment at UHCL.
- Three positive letters of recommendation: one from the Chair of Biological Sciences at UHCL, one from a full-time biology faculty member at UHCL, and one from a full-time chemistry faculty member at UHCL. Both UHCL faculty members must have taught the student in his/her sophomore year or later.

Upon successful completion of the first year of the UTMB-CLS program coursework the student will be awarded a B.S. degree in Biological Sciences from UHCL. Upon successful completion of the CLS degree requirements at UTMB the student will be awarded the M.S. degree in Clinical Laboratory Sciences from UTMB. In total this is approximately a five year degree program.

For more information on this collaborative degree program please contact the Biology Program Chair. Please note: This degree is pending approval from the Southern Association of Colleges and Schools and is expected to be offered strating in Summer 2018.

Specialization Requirements

Specialization Requirements 1 hour specialization elective taken at UHCL. Choose from BIOL 3335, 4189, 4253, 4289, 4332, 4348, 4371, 4389, 4391. BIOL xx1x Elective	
BIOL 2321	Microbiology for Science Majors Credit Hours: 3
BIOL 4345	Human Physiology Credit Hours: 3
	ON listed, any BIOL x2xx or x3xx approved elective or

To be completed at UTMB (28 Hours)

Required Courses
CLLS 3200CLLS 3405CLLS 4325CLLS 3544CLLS 3417CLLS 4417CLLS 5319MSHP 5302

Biological Sciences B.A. with Life Sciences 7-12 Certification

This certificate is offered through the College of Education (COE) with the degree being offered through the College of Science and Engineering (CSE). Please refer to CSE's portion of the catalog for additional information regarding its degrees.

Check prerequisites before enrolling in any courses.

University Core Requirements (42 Hours)

Onivorsity Coro Roquii	omonto (12 modro)
Communication (6 hours)	
WRIT 1301	Composition I Credit Hours: 3
WRIT 1302	Composition II Credit Hours: 3
Mathematics (3 hours)	
MATH 1314	College Algebra Credit Hours: 3
Life and Physical Sciences (6 ho	urs)
BIOL 1306	Biology for Science Majors I Credit Hours: 3
BIOL 1307	Biology for Science Majors II Credit Hours: 3
Language, Philosophy and Cultur	e (3 hours)
Choose one course from the list.	
HUMN 1301	Humanities Credit Hours: 3
LITR 2341	Literature and Experience Credit Hours: 3
PHIL 1301	Introduction to Philosophy Credit Hours: 3
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3
Creative Arts (3 Hours)	
Choose one course from the list.	
ARTS 1303	World Art Survey I Credit Hours: 3
ARTS 1304	World Art Survey II Credit Hours: 3
ARTS 2379	Arts and the Child Credit Hours: 3
American History (6 hours)	
HIST 1301	United States History I Credit Hours: 3

HIST 1302	United States History II Credit Hours: 3
Government/ Political Science (6 hours)
POLS 2305	Federal Government Credit Hours: 3
POLS 2306	Texas Government Credit Hours: 3
Social and Behavioral Sciences	(3 hours)
Choose one course from the list.	
ANTH 2346	General Anthropology Credit Hours: 3
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3
ECON 2301	Principles of Macroeconomics Credit Hours: 3
ECON 2302	Principles of Microeconomics Credit Hours: 3
GEOG 1303	World Regional Geography Credit Hours: 3
PSYC 2301	Introduction to Psychology Credit Hours: 3
SOCI 1301	Introduction to Sociology Credit Hours: 3
Component Area Option (6 hours	s)
COMM 1315	Public Speaking Credit Hours: 3
PSYC 1100	Learning Frameworks Credit Hours: 1
BIOL 1106	Laboratory for Biology for Science Majors I Credit Hours: 1
BIOL 1107	Laboratory for Biology for Science Majors II Credit Hours: 1

College of Education Core Requirements (19 hours)

College of Education Core	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3

SILC 4315	Theories of American Pluralism Credit Hours: 3
SPED 2301	Introduction to Special Populations Credit Hours: 3
SPED 4300	Survey of Exceptionalities Credit Hours: 3
TCED 1301	Exploring Teaching as a Profession Credit Hours: 3
TCED 4102	Secondary (4-8 and 7-12) Content Teacher Seminar Credit Hours: 1

Major Requirements

Major Requirements	
LLLS 4351	Reading in Content Subjects Credit Hours: 3
STAT 3308	Computational Statistics Credit Hours: 3
TCED 4306	Creating Positive Learning Environments in 7-12 Credit Hours: 3
WRIT 3315	Advanced Technical Writing Credit Hours: 3

Choose ONE Natural Science Elective, in addition to University Core science (3 hours from: ASTR, BIOL, CHEM, ENSC, GEOL or PHYS)

BIOL 3341	Molecular Genetics Credit Hours: 3
BIOL 3141	Laboratory for Molecular Genetics Credit Hours: 1
BIOL 2321	Microbiology for Science Majors Credit Hours: 3
BIOL 2121	Laboratory for Microbiology for Science Majors Credit Hours: 1
CHEM 1311	General Chemistry I
CHEM 1111	Laboratory for General Chemistry I Credit Hours: 1
CHEM 1312	General Chemistry II Credit Hours: 3
CHEM 1112	Laboratory for General Chemistry II Credit Hours: 1

CHEM 2323	Organic Chemistry I Credit Hours: 3
CHEM 2123	Laboratory for Organic Chemistry I
Choose ONE course from the fo	lowing 2 choices:
BIOL 3307	Cell Biology Credit Hours: 3
BIOL 4341	Biochemistry I Credit Hours: 3
Choose ONE course from the following	owing 3 choices:
BIOL 4343	Plant Physiology Credit Hours: 3
BIOL 4344	Comparative Animal Physiology Credit Hours: 3
BIOL 4345	Human Physiology Credit Hours: 3
Choose ONE course from the following 3 choices:	
BIOL 3311	Marine Biology Credit Hours: 3
BIOL 3333	Environmental Biology Credit Hours: 3
BIOL 4305	Ecology of the Amazon Credit Hours: 3
Choose ONE course from the following	owing 2 choices:
BIOL 3335	Epidemiology Credit Hours: 3
BIOL 4311	Ecology Credit Hours: 3
Choose ONE course combination from the following 3 choices with required labs:	
BIOL 3313	Plant Anatomy Credit Hours: 3
BIOL 3113	Laboratory for Plant Anatomy Credit Hours: 1
BIOL 3373	Human Anatomy
	Credit Hours: 3
BIOL 3173	Credit Hours: 3 Laboratory for Human Anatomy Credit Hours: 1
	Laboratory for Human Anatomy

Pedagogy Requirements

Courses	
TCED 4362	Methods in Secondary Science Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3
TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9

- GPA of 2.500 or higher required in Natural Science coursework.
- Grade of B- or better required in WRIT 3315.
- All courses outside the University Core must be C- or better.
- Check prerequisites before enrolling in any courses.

Biology Scholars Plan -Linked B.S.-M.S. Degree Plans in Biology

The Biology Scholars Plan combines the B.S. degree plan in Biology with M.S. degree plans in Biology or Biotechnology with the intention of allowing highly motivated and qualified students to complete both the B.S. and M.S. degrees in biology in a time and cost efficient manner. Students in the plan may take up to four courses at the graduate level in their senior year if they have completed the required course prerequisites. These graduate credit hours may be applied toward either the B.S. or M.S. degree, but not both. Additionally, students in the Scholars Plan are expected to begin a graduate research project early in their studies. After admission to the Scholars Plan and successful completion of the B.S. degree

in Biology, the Biology Program Graduate Admissions committee will consider waiving the Graduate Record Examination (GRE) requirement for admission into the Biology Graduate Program.

Biology scholars plan application Requirements:

- Applicants may apply for admission to the program during their sophomore, junior or senior year in college.
- Applicants must declare themselves to be Biology majors immediately upon admission.
- Applicants must have completed
 a minimum of 12 credit hours in
 mathematics/science coursework at the
 lower level, including a minimum of
 eight credit hours in biology, and have a
 cumulative mathematics/science GPA of 3.5.
- Applicants must provide a letter of recommendation from a science faculty adviser familiar with the student's coursework.
- Applicants must interview with the Scholars Plan Admissions Committee.

After admission, successful continuation in the Scholars Plan will require students to:

- Maintain an overall GPA of 3.0 and Mathematics/Science GPA of 3.0. Failure to maintain these averages will result in a one-semester probation period during which the student must improve his/ her cumulative GPA to 3.0, and their Mathematics/Science GPA to 3.0.
- Participate in a research project as an Independent Study course under the

- supervision of a graduate faculty adviser during the senior undergraduate year.
- Enroll in the Biology or Biotechnology Graduate Program upon completion of the requirements for the B.S. degree.
- Successfully complete a research project as an Independent Study or graduate thesis under the supervision of a graduate faculty adviser as part of their MS degree coursework.

Students who fail to meet any of these requirements will be dropped from the Scholars Plan, but may continue to pursue the B.S. or M.S. degree. Students who are dropped from the Scholars Program, but who wish to continue to pursue the M.S. degree, must meet the standard application requirements for admission to the Biology or Biotechnology Graduate Program.

At the completion of the requirements for each degree the student will be awarded the B.S. and M.S. degrees. A notation will be made on the student's transcript indicating they have completed the Biology Scholars Plan.

In the event a student is unable to complete the entire program of study, they are assured the B.S. degree in Biology upon completion of the requirements for that degree. In the event a student fails to complete the M.S. degree requirements, graduate level classes taken while in the program may be applied toward the B.S. degree.

Chemistry B.A.

Plans in Chemistry lead to the bachelor of arts (B.A.) or bachelor of science (B.S.) degrees.

In 2015, the Chemistry Program completed an extensive evaluation and assessment and retained its accreditation by the American Chemical Society (ACS). The Chemistry Program continues to be on the ACS's list of approved chemistry programs nationwide. In addition to regular university degree, students may obtain an ACS-certified BS degree in chemistry if they complete the appropriate curriculum with a GPA of 3.3 or above. Students enrolled in Chemistry plans may choose courses of high quality content in all traditional areas of Analytical, Inorganic, Organic and Physical Chemistry and Biochemistry, as well as in the specialization areas of Forensic Chemistry, Petrochemical & Process Chemistry and Medicinal Chemistry for Pre-Health Profession Students. Moreover, students are encouraged to further enhance their studies by undertaking research with one of the Chemistry faculty in any of these areas. In regard to such research, it should be noted that the Chemistry plan has received an endowment from the Welch Foundation in the form of a Chemistry Departmental Research Grant. This fund has been expended in support of the research efforts carried out by the plan's faculty during the training of students. The Chemistry plan also has an endowment from the Zeon Chemicals Company.

The B.A. degree is recommended for students preparing for careers in interdisciplinary areas such as medicine, secondary school teaching, patent law and environmental science.

This degree requires 120 hours which includes 42 hours of University Core. However, some of the Major Requirements courses listed below also satisfy University Core. If other courses are taken to satisfy the University Core, the Major Requirements below are still necessary for graduation and substitutions are not accepted.

University Core Requirements (42 Hours)

Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
MATH 2413	Calculus I Credit Hours: 4	
Additional Information Three (3) hours of Calculus will count toward the University Core and one (1) hour will count toward the Major.		
Life and Physical Sciences (6 hours)		
Choose two from list.		
CHEM 1311	General Chemistry I	
CHEM 1312	General Chemistry II Credit Hours: 3	
Language, Philosophy and Cultur	re (3 hours)	
Choose one from list.		
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
Choose one from list.		
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II	

ARTS 2379	Arts and the Child Credit Hours: 3		
American History (6 hours)			
HIST 1301	United States History I Credit Hours: 3		
HIST 1302	United States History II Credit Hours: 3		
Government/ Political Science (Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3		
POLS 2306	Texas Government Credit Hours: 3		
Social and Behavioral Sciences (3 hours)			
Choose one from list.			
ANTH 2346	General Anthropology Credit Hours: 3		
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3		
ECON 2301	Principles of Macroeconomics Credit Hours: 3		
ECON 2302	Principles of Microeconomics Credit Hours: 3		
GEOG 1303	World Regional Geography Credit Hours: 3		
PSYC 2301	Introduction to Psychology Credit Hours: 3		
SOCI 1301	Introduction to Sociology Credit Hours: 3		
Component Area Option (6 hours)			
COMM 1315	Public Speaking Credit Hours: 3		
PSYC 1100	Learning Frameworks Credit Hours: 1		
CHEM 1111	Laboratory for General Chemistry I Credit Hours: 1		
CHEM 1112	Laboratory for General Chemistry II Credit Hours: 1		

Major Requirements (53 Hours)

Major Requirements

Required minimum for all Major Requirements is "C"		
CHEM 1111	Laboratory for General Chemistry I Credit Hours: 1	
CHEM 1112	Laboratory for General Chemistry II Credit Hours: 1	
CHEM 1311	General Chemistry I	
CHEM 1312	General Chemistry II Credit Hours: 3	
CHEM 2101	Laboratory for Analytical Chemistry I Credit Hours: 1	
CHEM 2102	Laboratory for Analytical Chemistry II Credit Hours: 1	
CHEM 2123	Laboratory for Organic Chemistry I	
CHEM 2125	Laboratory for Organic Chemistry II Credit Hours: 1	
CHEM 2301	Analytical Chemistry I Credit Hours: 3	
CHEM 2302	Analytical Chemistry II Credit Hours: 3	
CHEM 2323	Organic Chemistry I Credit Hours: 3	
CHEM 2325	Organic Chemistry II Credit Hours: 3	
CHEM 3320	Survey of Physical Chemistry Credit Hours: 3	
CHEM 4235	Advanced Lab for Inorganic Chemistry Credit Hours: 2	
CHEM 4310	Advanced Chemical Calculations Credit Hours: 3	
CHEM 4335	Inorganic Chemistry Credit Hours: 3	
CHEM 4367	Instrumental Analysis Credit Hours: 3	
CHEM 4371	Advanced Spectroscopic Analysis Credit Hours: 3	
CHEM 4372	Chemistry Seminar Credit Hours: 3	
CHEM 4373	Quantitative Chemical Analysis Credit Hours: 3	
CHEM 4368	Advanced Organic Chemistry Credit Hours: 3	
MATH 2413	Calculus I Credit Hours: 4	

PHYS 1101	Laboratory for College Physics I Credit Hours: 1
PHYS 1102	Laboratory for College Physics II Credit Hours: 1
PHYS 1301	College Physics I Credit Hours: 3
PHYS 1302	College Physics II Credit Hours: 3
WRIT 3315	Advanced Technical Writing Credit Hours: 3

Major Electives (24 hours)

Required "C-" or better. Choose 3000 or 4000 level courses from the following approved list of Chemistry courses or you may choose other technical (science or science related) courses to be approved in advance by your faculty adviser.

CHEM 3333	Environmental Chemistry Credit Hours: 3
CHEM 4189	Independent Study in Chemistry Credit Hours: 1
CHEM 4251	Laboratory for Environmental Analysis Credit Hours: 2
CHEM 4311	Chemical Origins Credit Hours: 3
CHEM 4312	Principles of Astrobiochemistry Credit Hours: 3
CHEM 4341	Biochemistry I Credit Hours: 3
CHEM 4355	Environmental Sampling and Monitoring Credit Hours: 3
CHEM 4363	Forensic Chemistry Credit Hours: 3
CHEM 4365	Introduction to Polymer Chemistry Credit Hours: 3
CHEM 4376	Introduction to Petroleum Chemistry Credit Hours: 3
CHEM 4389	Independent Study in Chemistry Credit Hours: 3
CHEM 4391	Selected Topics in Chemistry Credit Hours: 3

Chemistry B.S.

Plans in Chemistry lead to the bachelor of arts (B.A.) or bachelor of science (B.S.) degrees. In 2015, the Chemistry Program completed an extensive evaluation and assessment and retained its accreditation by the American Chemical Society (ACS). The Chemistry Program continues to be on the ACS's list of approved chemistry programs nationwide. In addition to regular university degree, students may obtain an ACS-certified BS degree in chemistry if they complete the appropriate curriculum with a GPA of 3.3 or above. Students enrolled in Chemistry plans may choose courses of high quality content in all traditional areas of Analytical, Inorganic, Organic and Physical Chemistry and Biochemistry, as well as in the specialization areas of Forensic Chemistry, Petrochemical & Process Chemistry and Medicinal Chemistry for Pre-Health Profession Students. Moreover, students are encouraged to further enhance their studies by undertaking research with one of the Chemistry faculty in any of these areas. In regard to such research, it should be noted that the Chemistry plan has received an endowment from theWelch Foundation in the form of a Chemistry Departmental Research Grant. This fund has been expended in support of the research efforts carried out by the plan's faculty during the training of students. The Chemistry plan also has an endowment from the Zeon Chemicals Company.

All chemistry courses taken at UHCL more than one year prior to being admitted to the Chemistry plan are subject to faculty review before being accepted for degree credit.

The B.A. degree is recommended for students preparing for careers in interdisciplinary areas such as medicine, secondary school teaching, patent law and environmental science.

The B.S. degree is designed to meet the needs of students planning careers as professional chemists and is recommended as preparation for graduate training or for a career in the chemical industry.

Chemistry B.S. Degree Requirements
This degree requires 120 hours which includes
43 hours of University Core. University Core is
listed separately in the catalog. However; some
of the Major Requirements courses listed below
also satisfy University Core. If other courses
are taken to satisfy University Core, the Major
Requirements below are still necessary for
graduation and substitutions are not accepted.

University Core Requirements (42 Hours)

Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
MATH 2413	Calculus I Credit Hours: 4	
Additional Information Three (3) hours of Calculus will count toward the University Core and one (1) hour will count toward the Major.		
Life and Physical Sciences (6 hours)		
Choose two from the list.		
CHEM 1311	General Chemistry I	
CHEM 1312	General Chemistry II Credit Hours: 3	
Language, Philosophy and Culture (3 hours)		

Choose one from the list.	
HUMN 1301	Humanities Credit Hours: 3
LITR 2341	Literature and Experience Credit Hours: 3
PHIL 1301	Introduction to Philosophy Credit Hours: 3
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3
Creative Arts (3 Hours)	
Choose one from the list.	
ARTS 1303	World Art Survey I Credit Hours: 3
ARTS 1304	World Art Survey II Credit Hours: 3
ARTS 2379	Arts and the Child Credit Hours: 3
American History (6 hou	ırs)
HIST 1301	United States History I Credit Hours: 3
HIST 1302	United States History II Credit Hours: 3
Government/ Political S	cience (6 hours)
POLS 2305	Federal Government Credit Hours: 3
POLS 2306	Texas Government Credit Hours: 3
Social and Behavioral S	ciences (3 hours)
Choose one from the list.	
ANTH 2346	General Anthropology Credit Hours: 3
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3
ECON 2301	Principles of Macroeconomics Credit Hours: 3
ECON 2302	Principles of Microeconomics Credit Hours: 3
GEOG 1303	World Regional Geography Credit Hours: 3
PSYC 2301	Introduction to Psychology

Credit Hours: 3

SOCI 1301	Introduction to Sociology Credit Hours: 3
Component Area Option (6 hours)	
COMM 1315	Public Speaking Credit Hours: 3
PSYC 1100	Learning Frameworks Credit Hours: 1
CHEM 1111	Laboratory for General Chemistry I Credit Hours: 1
CHEM 1112	Laboratory for General Chemistry II Credit Hours: 1

Major Requirements (71 Hours)

Major Requirements	
Required minimum for all Major Required	rements is "C-".
CHEM 1111	Laboratory for General Chemistry I Credit Hours: 1
CHEM 1112	Laboratory for General Chemistry II Credit Hours: 1
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II Credit Hours: 3
CHEM 2101	Laboratory for Analytical Chemistry I Credit Hours: 1
CHEM 2102	Laboratory for Analytical Chemistry II Credit Hours: 1
CHEM 2123	Laboratory for Organic Chemistry I
CHEM 2125	Laboratory for Organic Chemistry II Credit Hours: 1
CHEM 2301	Analytical Chemistry I Credit Hours: 3
CHEM 2302	Analytical Chemistry II Credit Hours: 3
CHEM 2323	Organic Chemistry I Credit Hours: 3
CHEM 2325	Organic Chemistry II Credit Hours: 3
CHEM 4222	Laboratory for Physical Chemistry Credit Hours: 2
CHEM 4235	Advanced Lab for Inorganic Chemistry Credit Hours: 2

CHEM 4310	Advanced Chemical Calculations Credit Hours: 3
CHEM 4321	Physical Chemistry I Credit Hours: 3
CHEM 4322	Physical Chemistry II Credit Hours: 3
CHEM 4335	Inorganic Chemistry Credit Hours: 3
CHEM 4341	Biochemistry I Credit Hours: 3
CHEM 4365	Introduction to Polymer Chemistry Credit Hours: 3
CHEM 4367	Instrumental Analysis Credit Hours: 3
CHEM 4368	Advanced Organic Chemistry Credit Hours: 3
CHEM 4371	Advanced Spectroscopic Analysis Credit Hours: 3
CHEM 4372	Chemistry Seminar Credit Hours: 3
CHEM 4373	Quantitative Chemical Analysis Credit Hours: 3
CHEM 4379	Undergraduate Research in Chemistry Credit Hours: 3
MATH 2413	Calculus I Credit Hours: 4
MATH 2414	Calculus II
PHYS 2125	Laboratory for University Physics I Credit Hours: 1
PHYS 2126	Laboratory for University Physics II Credit Hours: 1
PHYS 2325	University Physics I Credit Hours: 3
PHYS 2326	University Physics II Credit Hours: 3
WRIT 3315	Advanced Technical Writing Credit Hours: 3
Chemistry Electives (6 hours)	
Must be selected from the approved list below, or other junior or senior (3000 or 4000) level Physical Science courses: ASTR, GEOL, PHYS, CHEM or other science or math courses approved by the faculty adviser. Required "C-" or better.	
CHEM 3333	Environmental Chemistry Credit Hours: 3

CHEM 4189	Independent Study in Chemistry
G.1.2.1. 420)	Credit Hours: 1
CHEM 4251	Laboratory for Environmental
	Analysis Credit Hours: 2
CHEM 4312	Principles of Astrobiochemistry
	Credit Hours: 3
CHEM 4342	Biochemistry II Credit Hours: 3
	Credit Hours: 3
CHEM 4355	Environmental Sampling and Monitoring
	Credit Hours: 3
CHEM 4359	Drug Design and Synthesis
CHEWI 4359	Credit Hours: 3
CHEM 4360	Bio-organic and Medicinal Chemistry
	Credit Hours: 3
CHEM 4363	Forensic Chemistry
	Credit Hours: 3
CHEM 4376	Introduction to Petroleum Chemistry
	Credit Hours: 3
CHEM 4389	Independent Study in Chemistry
	Credit Hours: 3
CHEM 4391	Selected Topics in Chemistry
	Credit Hours: 3

Specializations

Three specialization areas are available to students pursuing the B.S. degree in Chemistry. In all cases, prerequisites for any course must be satisfied prior to enrollment in the course. Students must complete the required specialization courses for each specialization area with grades of "C" or better (grades of "C-" or below are not acceptable). Specialization elective courses must be completed with grades of "C-" or better.

Specialization in Forensic Chemistry Requirements

Forensic Specialization Requirements	
BIOL 4335	Forensic Biology Credit Hours: 3

CHEM 4363	Forensic Chemistry Credit Hours: 3
CRIM 4330	Criminal Investigation Credit Hours: 3

Specialization in Petrochemical and Process Chemistry Requirements

Petrochemical and Process Chemistry Specialization Requirements	
CHEM 4358	Industrial Chemistry: Process and Environment Credit Hours: 3
CHEM 4365	Introduction to Polymer Chemistry Credit Hours: 3

Specialization in Medicinal Chemistry for Pre-Health Professional Requirements

Medicinal Chemistry for Pre-Health Professional Requirements	
CHEM 4328	Introduction to Medicinal Chemistry Credit Hours: 3
CHEM 4359	Drug Design and Synthesis Credit Hours: 3
CHEM 4360	Bio-organic and Medicinal Chemistry Credit Hours: 3

Chemistry Scholars Plan - Linked B.S.-M.S. Degree Plans in Chemistry

The Chemistry Scholars Plan encourages highly motivated and qualified chemistry B.S. degree seeking students to obtain M.S. degree in Chemistry. Students in the plan may take up to four courses at the graduate level in their senior year if they have completed the required course prerequisites. These graduate credit

hours may be applied toward either the B.S. or M.S. degree, but not both. Additionally, students in the Scholars Plan are expected to begin a graduate research project early in their studies. After admission to the Scholars Plan and successful completion of the B.S. degree in Chemistry, the Chemistry Program Graduate Admissions committee will waive the Graduate Record Examination (GRE) requirement for their admission into the Chemistry Graduate Program.

Chemistry scholars plan application Requirements:

- Applicants may apply for admission to the program during their sophomore, junior or senior year at UHCL.
- Applicants must declare themselves to be Chemistry majors immediately upon admission.
- Applicants must have completed

 a minimum of 12 credit hours in
 mathematics/science coursework at the
 lower level, including a minimum of eight
 credit hours in chemistry, and have a
 cumulative mathematics/science GPA of 3.5.
- Applicants must interview with the Scholars Plan Admissions Committee.

After admission, successful continuation in the Scholars Plan will require students to:

 Maintain an overall GPA of 3.0 and mathematics/science GPA of 3.0. Failure to maintain these averages will result in a one-semester probation period during which the student must improve their cumulative GPA to 3.0 and their mathematics/science GPA to 3.0.

- Participate in a research project as an Independent Study course under the supervision of a graduate faculty adviser during the senior undergraduate year.
- Enroll in the Chemistry Graduate Program upon completion of the requirements for the B.S. degree.
- Successfully complete a research project as an Independent Study and CHEM 6837 and CHEM 6838 or graduate thesis under the supervision of a graduate faculty adviser as part of their MS degree coursework.

Students who fail to meet any of these requirements will be dropped from the Scholars Plan, but may continue to pursue the B.S. or M.S. degree in chemistry. Students who are dropped from the Scholars Program, but still wish to pursue the MS degree, must meet the standard application requirements for admission to the Chemistry Graduate Program.

At the completion of the requirements for each degree the student will be awarded both the B.S. and M.S. degrees in Chemistry. A notation will be made on the student's transcript indicating they have completed the Chemistry Scholars Plan.

In the event a student is unable to complete the entire program of study, s/he is assured the B.S. degree in Chemistry upon completion of the requirements for that degree. In the event a student fails to complete the M.S. degree requirements, graduate level classes taken while in the program may be applied toward the B.S. degree.

Communication B.A.

The undergraduate major in Communication leads to the Bachelor of Arts (B.A.) degree and is designed to prepare students for careers in corporate or mass communication. Communication majors are instructed in both written and visual communication. The major exposes students to a broad range of communication skills to reflect today's era of integrated media and includes credit-based internships to provide students with work experience in their desired fields.

A minimum of 120 semester hours of applicable college credits is required for the bachelor's degree in Communication; of these, a minimum of 48 credit hours must be at the upper level. Because degree plans are subject to change, all students should meet with their faculty advisers during their first semester at UHCL to sign a Candidate Plan of Study in order to secure the degree plan in place at the time of their enrollment.

Entrance and Exit Requirements

Students in the Communication plan must take the Grammar-Spelling-Punctuation (GSP) test and score 70 or better before they may enroll in any 4300-level course. Students are also required to build a professional portfolio using a collection of their best written and graphic work as an exit requirement for the major. For additional information about the GSP tutorial/test dates as well as advice regarding course recommendations and lower-level transfer requirements, please visit the Communication program's website. In addition,

the student organization Communication and Digital Media Association (CDMA) serves as a great networking opportunity for communication students.

University Core Requirements (42 Hours)

Communication (6 hours)	Communication (6 hours)	
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
Choose ONE of the following courses.		
MATH 1314	College Algebra Credit Hours: 3	
MATH 1332	Contemporary Mathematics Credit Hours: 3	
Life and Physical Sciences (6 hours)		
Choose TWO of the following courses.		
ASTR 1303	Stars and Galaxies Credit Hours: 3	
ASTR 1304	Solar System Credit Hours: 3	
BIOL 1306	Biology for Science Majors I Credit Hours: 3	
BIOL 1307	Biology for Science Majors II Credit Hours: 3	
BIOL 1308	Biology for Non-Science Majors I	
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3	
BIOL 2301	Anatomy & Physiology I Credit Hours: 3	
BIOL 2302	Anatomy & Physiology II Credit Hours: 3	
CHEM 1305	Introductory Chemistry I Credit Hours: 3	
CHEM 1311	General Chemistry I	
CHEM 1312	General Chemistry II Credit Hours: 3	

ENSC 1302 Environmental Science II Credit Hours: 3 GEOL 1303 Physical Geology Credit Hours: 3 GEOL 1304 Historical Geology Credit Hours: 3 GEOL 1304 Historical Geology Credit Hours: 3 PHYS 1301 College Physics I Credit Hours: 3 PHYS 1302 College Physics II Credit Hours: 3 PHYS 2325 University Physics II Credit Hours: 3 PHYS 2326 University Physics II Credit Hours: 3 PHYS 2326 University Physics II Credit Hours: 3 Language, Philosophy and Culture (3 hours) Choose ONE of the following courses. HUMN 1301 Humanities Credit Hours: 3 LITR 2341 Literature and Experience Credit Hours: 3 PHIL 1301 Introduction to Philosophy Credit Hours: 3 WGST 1301 Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3 Creative Arts (3 Hours) Choose ONE of the following courses. ARTS 1303 World Art Survey I Credit Hours: 3 ARTS 1304 World Art Survey II Credit Hours: 3 ARTS 2379 Arts and the Child Credit Hours: 3 U.S. History (6 hours) HIST 1301 United States History I Credit Hours: 3 HIST 1301 United States History II Credit Hours: 3			
GEOL 1303 Physical Geology Credit Hours: 3 GEOL 1304 Historical Geology Credit Hours: 3 GEOL 1304 College Physics I Credit Hours: 3 PHYS 1301 College Physics II Credit Hours: 3 PHYS 1302 College Physics II Credit Hours: 3 PHYS 2325 University Physics II Credit Hours: 3 PHYS 2326 University Physics II Credit Hours: 3 Language, Philosophy and Culture (3 hours) Choose ONE of the following courses. HUMN 1301 Humanities Credit Hours: 3 LITTR 2341 Literature and Experience Credit Hours: 3 PHIL 1301 Introduction to Philosophy Credit Hours: 3 WGST 1301 Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3 Credit Hours: 3 Credit Hours: 3 Credit Hours: 3 ARTS 1303 World Art Survey I Credit Hours: 3 ARTS 1304 World Art Survey II Credit Hours: 3 ARTS 2379 Arts and the Child Credit Hours: 3 U.S. History (6 hours) HIST 1301 United States History II Credit Hours: 3 HIST 1302 United States History II Credit Hours: 3	ENSC 1301		
GEOL 1304 Historical Geology Credit Hours: 3 PHYS 1301 College Physics I Credit Hours: 3 PHYS 1302 College Physics II Credit Hours: 3 PHYS 2325 University Physics I Credit Hours: 3 PHYS 2326 University Physics II Credit Hours: 3 Language, Philosophy and Culture (3 hours) Choose ONE of the following courses. HUMN 1301 Humanities Credit Hours: 3 LITR 2341 Literature and Experience Credit Hours: 3 PHIL 1301 Introduction to Philosophy Credit Hours: 3 WGST 1301 Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3 Credit Hours: 3 Credit Hours: 3 ARTS 1303 World Art Survey I Credit Hours: 3 ARTS 1304 World Art Survey II Credit Hours: 3 ARTS 2379 Arts and the Child Credit Hours: 3 U.S. History (6 hours) HIST 1301 United States History I Credit Hours: 3 HIST 1302 United States History II Credit Hours: 3	ENSC 1302		
Credit Hours: 3 PHYS 1301 College Physics I Credit Hours: 3 PHYS 1302 College Physics II Credit Hours: 3 PHYS 2325 University Physics I Credit Hours: 3 PHYS 2326 University Physics II Credit Hours: 3 Language, Philosophy and Culture (3 hours) Choose ONE of the following courses. HUMN 1301 Humanities Credit Hours: 3 LITR 2341 Literature and Experience Credit Hours: 3 PHIL 1301 Introduction to Philosophy Credit Hours: 3 WGST 1301 Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3 Creative Arts (3 Hours) Credit Hours: 3 ARTS 1303 World Art Survey I Credit Hours: 3 ARTS 1304 World Art Survey II Credit Hours: 3 ARTS 2379 Arts and the Child Credit Hours: 3 U.S. History (6 hours) HIST 1301 United States History I Credit Hours: 3 HIST 1302 United States History II Credit Hours: 3	GEOL 1303		
Credit Hours: 3 PHYS 1302 College Physics II Credit Hours: 3 PHYS 2325 University Physics I Credit Hours: 3 PHYS 2326 University Physics II Credit Hours: 3 Language, Philosophy and Culture (3 hours) Choose ONE of the following courses. HUMN 1301 Humanities Credit Hours: 3 LiTR 2341 Literature and Experience Credit Hours: 3 PHIL 1301 Introduction to Philosophy Credit Hours: 3 WGST 1301 Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3 Creative Arts (3 Hours) Choose ONE of the following courses. ARTS 1303 World Art Survey I Credit Hours: 3 ARTS 1304 World Art Survey II Credit Hours: 3 ARTS 2379 Arts and the Child Credit Hours: 3 U.S. History (6 hours) HIST 1301 United States History I Credit Hours: 3 HIST 1302 United States History II Credit Hours: 3	GEOL 1304	-	
PHYS 2325 PHYS 2326 University Physics I Credit Hours: 3 PHYS 2326 University Physics II Credit Hours: 3 Language, Philosophy and Culture (3 hours) Choose ONE of the following courses. HUMN 1301 Humanities Credit Hours: 3 LITR 2341 Literature and Experience Credit Hours: 3 PHIL 1301 Introduction to Philosophy Credit Hours: 3 WGST 1301 Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3 Creative Arts (3 Hours) Creative Arts (3 Hours) Credit Hours: 3 ARTS 1303 World Art Survey I Credit Hours: 3 ARTS 1304 World Art Survey II Credit Hours: 3 ARTS 2379 Arts and the Child Credit Hours: 3 U.S. History (6 hours) HIST 1301 United States History I Credit Hours: 3 HIST 1302 United States History II Credit Hours: 3	PHYS 1301		
Credit Hours: 3 PHYS 2326 University Physics II Credit Hours: 3 Language, Philosophy and Culture (3 hours) Choose ONE of the following courses. HUMN 1301 Humanities Credit Hours: 3 LITR 2341 Literature and Experience Credit Hours: 3 PHIL 1301 Introduction to Philosophy Credit Hours: 3 WGST 1301 Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3 Creative Arts (3 Hours) Choose ONE of the following courses. ARTS 1303 World Art Survey I Credit Hours: 3 ARTS 1304 World Art Survey II Credit Hours: 3 ARTS 2379 Arts and the Child Credit Hours: 3 U.S. History (6 hours) HIST 1301 United States History I Credit Hours: 3 HIST 1302 United States History II Credit Hours: 3	PHYS 1302		
Language, Philosophy and Culture (3 hours) Choose ONE of the following courses. HUMN 1301 Humanities Credit Hours: 3 LITR 2341 Literature and Experience Credit Hours: 3 PHIL 1301 Introduction to Philosophy Credit Hours: 3 WGST 1301 Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3 Creative Arts (3 Hours) Choose ONE of the following courses. ARTS 1303 World Art Survey I Credit Hours: 3 ARTS 1304 World Art Survey II Credit Hours: 3 ARTS 2379 Arts and the Child Credit Hours: 3 U.S. History (6 hours) HIST 1301 United States History I Credit Hours: 3 HIST 1302 United States History II Credit Hours: 3	PHYS 2325		
Choose ONE of the following courses. HUMN 1301 Humanities Credit Hours: 3 LITR 2341 Literature and Experience Credit Hours: 3 PHIL 1301 Introduction to Philosophy Credit Hours: 3 WGST 1301 Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3 Creative Arts (3 Hours) Choose ONE of the following courses. ARTS 1303 World Art Survey I Credit Hours: 3 ARTS 1304 World Art Survey II Credit Hours: 3 ARTS 2379 Arts and the Child Credit Hours: 3 U.S. History (6 hours) HIST 1301 United States History I Credit Hours: 3 HIST 1302 United States History II Credit Hours: 3	PHYS 2326		
HUMN 1301 Humanities Credit Hours: 3 Literature and Experience Credit Hours: 3 PHIL 1301 Introduction to Philosophy Credit Hours: 3 WGST 1301 Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3 Creative Arts (3 Hours) Choose ONE of the following courses. ARTS 1303 World Art Survey I Credit Hours: 3 ARTS 1304 World Art Survey II Credit Hours: 3 ARTS 2379 Arts and the Child Credit Hours: 3 U.S. History (6 hours) HIST 1301 United States History I Credit Hours: 3 HIST 1302 United States History II Credit Hours: 3	Language, Philosophy and Culture (3 hours)		
Credit Hours: 3 LITR 2341 Literature and Experience Credit Hours: 3 PHIL 1301 Introduction to Philosophy Credit Hours: 3 WGST 1301 Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3 Creative Arts (3 Hours) Choose ONE of the following courses. ARTS 1303 World Art Survey I Credit Hours: 3 ARTS 1304 World Art Survey II Credit Hours: 3 ARTS 2379 Arts and the Child Credit Hours: 3 U.S. History (6 hours) HIST 1301 United States History I Credit Hours: 3 HIST 1302 United States History II Credit Hours: 3	Choose ONE of the following courses.		
Credit Hours: 3 PHIL 1301 Introduction to Philosophy Credit Hours: 3 WGST 1301 Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3 Creative Arts (3 Hours) Choose ONE of the following courses. ARTS 1303 World Art Survey I Credit Hours: 3 ARTS 1304 World Art Survey II Credit Hours: 3 ARTS 2379 Arts and the Child Credit Hours: 3 U.S. History (6 hours) HIST 1301 United States History I Credit Hours: 3 HIST 1302 United States History II Credit Hours: 3	HUMN 1301		
Credit Hours: 3 Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3 Creative Arts (3 Hours) Choose ONE of the following courses. ARTS 1303 World Art Survey I Credit Hours: 3 ARTS 1304 World Art Survey II Credit Hours: 3 ARTS 2379 Arts and the Child Credit Hours: 3 U.S. History (6 hours) HIST 1301 United States History I Credit Hours: 3 HIST 1302 United States History II Credit Hours: 3	LITR 2341		
Women's and Gender Studies Credit Hours: 3 Creative Arts (3 Hours) Choose ONE of the following courses. ARTS 1303 World Art Survey I Credit Hours: 3 ARTS 1304 World Art Survey II Credit Hours: 3 ARTS 2379 Arts and the Child Credit Hours: 3 U.S. History (6 hours) HIST 1301 United States History I Credit Hours: 3 United States History II Credit Hours: 3	PHIL 1301		
Choose ONE of the following courses. ARTS 1303 World Art Survey I Credit Hours: 3 ARTS 1304 World Art Survey II Credit Hours: 3 ARTS 2379 Arts and the Child Credit Hours: 3 U.S. History (6 hours) HIST 1301 United States History I Credit Hours: 3 HIST 1302 United States History II Credit Hours: 3	WGST 1301	Women's and Gender Studies	
ARTS 1303 World Art Survey I Credit Hours: 3 World Art Survey II Credit Hours: 3 ARTS 2379 Arts and the Child Credit Hours: 3 U.S. History (6 hours) HIST 1301 United States History I Credit Hours: 3 HIST 1302 United States History II Credit Hours: 3	Creative Arts (3 Hours)		
Credit Hours: 3 World Art Survey II Credit Hours: 3 ARTS 2379 Arts and the Child Credit Hours: 3 U.S. History (6 hours) HIST 1301 United States History I Credit Hours: 3 HIST 1302 United States History II Credit Hours: 3	Choose ONE of the following courses.		
ARTS 2379 Arts and the Child Credit Hours: 3 U.S. History (6 hours) HIST 1301 United States History I Credit Hours: 3 HIST 1302 United States History II Credit Hours: 3	ARTS 1303		
U.S. History (6 hours) HIST 1301 United States History I Credit Hours: 3 HIST 1302 United States History II Credit Hours: 3	ARTS 1304	-	
HIST 1301 United States History I Credit Hours: 3 HIST 1302 United States History II Credit Hours: 3	ARTS 2379		
Credit Hours: 3 HIST 1302 United States History II Credit Hours: 3	U.S. History (6 hours)		
Credit Hours: 3	HIST 1301		
Government/ Political Science (6 hours)	HIST 1302	-	
	Government/ Political Science (6 hours)		

Federal Government Credit Hours: 3		
Texas Government Credit Hours: 3		
ours)		
General Anthropology Credit Hours: 3		
Introduction to Criminal Justice Credit Hours: 3		
Principles of Macroeconomics Credit Hours: 3		
Principles of Microeconomics Credit Hours: 3		
World Regional Geography Credit Hours: 3		
Introduction to Psychology Credit Hours: 3		
Introduction to Sociology Credit Hours: 3		
Public Speaking (3 hours)		
Public Speaking Credit Hours: 3		
Component Area Options (3 hours)		
Two 1- hour Life and PhysicalScience Labs - required co-requisites for the chosen science courses.		
Learning Frameworks Credit Hours: 1		

College Core Requirements (3 hours)

To earn a degree in communication, students must graduate with a GPA of 2.500 or better. A few courses require a grade of "C" or better, as noted below; a "C-" is not acceptable for these courses. All prerequisites are strictly enforced.

Core Requirements	
Advanced Writing must be passed with a grade of "C" or better.	
WRIT 3307	Advanced Writing Credit Hours: 3

Major Requirements (36 hours)

Courses

Choose TWO courses from any 3300/4300 level ANTH, PHIL, PSYC, SOCI These courses must be passed with grades of "C" or better.

ARTS 2371	Digital Photography Credit Hours: 3
COMM 1307	Introduction to Mass Communication Credit Hours: 3
COMM 3320	Principles of Public Relations Credit Hours: 3
COMM 3321	Media Writing Credit Hours: 3
COMM 3352	Media Law Credit Hours: 3
COMM 3360	Web Design Credit Hours: 3
COMM 4358	Publication Design Credit Hours: 3

Capstone Requirement (senior year; GSP must first be passed)

Students will have the opportunity to integrate and demonstrate their mastery of communication skills as well as achieve key learning objectives by taking 9 hours of capstone credit. Passing the GSP test is a prerequisite to all capstone courses.

COMM 4061	Communication Portfolio Credit Hours: 0
COMM 4379	Communication Internship Credit Hours: 3
COMM 4655	Media Production Credit Hours: 6

Communication Electives (15 hours)

Choose FIVE courses from a designated list (3300/4300 level)

COMM 3350	Visual Communication Credit Hours: 3
COMM 3352	Media Law Credit Hours: 3
COMM 3353	Alternative Media Marketing Credit Hours: 3
COMM 3354	Gathering Information Credit Hours: 3
COMM 3355	Communication Ethics Credit Hours: 3

COMM 3356	Advertising Procedure Credit Hours: 3
COMM 3361	Advanced Web Design Credit Hours: 3
COMM 4301	Global Issues in Film Credit Hours: 3
COMM 4322	Public Relations Writing Credit Hours: 3
COMM 4346	2D Animation Credit Hours: 3
COMM 4350	3D Computer Modeling Credit Hours: 3
COMM 4351	3D Animation Credit Hours: 3
COMM 4352	Photojournalism Credit Hours: 3
COMM 4353	Advanced Media Writing Credit Hours: 3
COMM 4354	Video Production I Credit Hours: 3
COMM 4355	Video Production 2 Credit Hours: 3
COMM 4381	Project Management Credit Hours: 3
COMM 4389	Independent Study in Communication Credit Hours: 3
COMM 4391	Selected Topics in Communication Credit Hours: 3
ARTS 3360	Graphic Design Credit Hours: 3
ARTS 4348	Information Design Credit Hours: 3
ARTS 4350	Advanced Photography Credit Hours: 3
ARTS 4351	Advanced Digital Photography Credit Hours: 3
ARTS 4352	Video Arts Credit Hours: 3
ARTS 4363	Advertising Design Credit Hours: 3
ARTS 4368	Graphic Novel Design Credit Hours: 3
ARTS 4369	Digital Illustration Credit Hours: 3

MKTG 3301	Principles of Marketing Credit Hours: 3
MKTG 3331	Integrated Marketing Communications
WRIT 3312	Written Communications in Business Credit Hours: 3
WRIT 3315	Advanced Technical Writing Credit Hours: 3

Electives (24 hours)

12 hours must be 1300/2300 level12 hours must be 3300/4300 levelStudents may take any course as an elective, including communication courses not taken to meet major requirements.

Computer Engineering B.S.

The plan in Computer Engineering leads to the bachelor of science (B.S.) degree. This engineering plan is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org and emphasizes the study of large and small computer systems for industrial, scientific and business applications. Computer hardware and software concepts, along with engineering-level mathematics, prepare students for jobs in computer-based industries as well as for admission into the graduate plan in Computer Engineering or related fields.

The mission of the Computer Engineering program is to provide students instruction in the pragmatic application of core knowledge by which they can specify, design and develop large and small computer systems for industrial and scientific purposes. Students get handson experience in digital system design, microprocessor and embedded system, communication and network and robotics. The culminating experience for a student in this plan is CENG 4265/CENG 4266 Senior Projects.

Program Educational Objectives

The Program Educational Objectives (PEO) of the Computer Engineering program are defined as what graduates are expected to attain within a few years after graduation and are as follows:

- Computer Engineering graduates will have gainful employment in industry, government or academia.
- Computer Engineering graduates will have assumed additional responsibilities at their place of employment greater than those normally evidence by entry-level engineers.
- Computer Engineering graduates that choose to pursue higher education opportunities or certificate programs have been accepted and are on tract for a timely graduation.
- Computer Engineering graduates who have an interest in registration have passed the Fundamentals of Engineering exam.
- Computer Engineering graduates participate in and are considered valuable resources in their service to the community.

Scholastic Performance Requirements for Computer Engineering Undergraduates

The UHCL graduation requirements stipulate that a student must achieve an overall minimum grade point average (GPA) of 2.0. The Computer Engineering program imposes additional requirements for students to be accepted into, and progress through, the upper-level Computer Engineering curriculum. In order to file for an undergraduate degree plan with Computer Engineering Program, students should have

declared Computer Engineering as a major and have completed at least 45 total credit hours. Thes 45 credit hours must include the following courses completed with a grade of C- or better and a cumulative GPA of 2.5 or higher: CSCI 1320, CSCI 1370, CSCI 2315, PHYS 2325 and lab, PHYS 2326 and lab, MATH 2413, MATH 2414, MATH 2305 and WRIT 1301.

Students may enroll in upper-level Computer Engineering or Computer Science courses after successfully filing their degree plan. The above listed courses may not be attempted more than twice without consulting an assigned faculty adviser.

Computer Engineering Requirements

Admission Requirements

Students entering the undergraduate Computer Engineering (CENG) plan should have a cumulative GPA of 2.500 (four-point grade scale) or better in lower level or transfer courses. Students with a GPA of less than 2.500 are encouraged to provide a written statement of additional material that will assist the admission committee in determining the individual's potential for success in upper level courses.

Requirements

This degree requires 132 hours and includes 42 hours of University Core. However; some of the Major Requirements courses listed below also satisfy University Core. If other courses are taken to satisfy University Core, the Major Requirements below are still necessary for graduation and substitutions are not accepted.

University Core Requirements (42 Hours)

O	rements (42 Hours)	
Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
MATH 2413	Calculus I Credit Hours: 4	
Additional Information Three (3) hours of Calculus will count toward the University Core and one (1) hour will count toward the Major.		
Life and Physical Sciences (6 hours)		
PHYS 2325	University Physics I Credit Hours: 3	
PHYS 2326	University Physics II Credit Hours: 3	
Language, Philosophy and Cultur	e (3 hours)	
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
American History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	

Government/ Political Science (6 hours)

POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social and Behavioral Sciences (3 hours)	
ANTH 2346	General Anthropology Credit Hours: 3	
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3	
ECON 2301	Principles of Macroeconomics Credit Hours: 3	
ECON 2302	Principles of Microeconomics Credit Hours: 3	
GEOG 1303	World Regional Geography Credit Hours: 3	
PSYC 2301	Introduction to Psychology Credit Hours: 3	
SOCI 1301	Introduction to Sociology Credit Hours: 3	
Component Area Option (6 hours)		
COMM 1315	Public Speaking Credit Hours: 3	
PSYC 1100	Learning Frameworks Credit Hours: 1	
PHYS 2125	Laboratory for University Physics I Credit Hours: 1	
PHYS 2126	Laboratory for University Physics II Credit Hours: 1	

Major Requirements (80 Hours)

Required minimum for all Major Requirements is "C-."

Major Requirements	
CHEM 1311	General Chemistry I
CHEM 1111	Laboratory for General Chemistry I Credit Hours: 1
PHYS 2325	University Physics I Credit Hours: 3
PHYS 2125	Laboratory for University Physics I Credit Hours: 1

PHYS 2326	University Physics II Credit Hours: 3
PHYS 2126	Laboratory for University Physics II Credit Hours: 1
MATH 2413	Calculus I Credit Hours: 4
MATH 2414	Calculus II
MATH 2315	Calculus III Credit Hours: 3
MATH 2318	Linear Algebra Credit Hours: 3
MATH 2320	Differential Equations Credit Hours: 3
MATH 2305	Discrete Mathematics
STAT 3334	Probability and Statistics for Scientists and Engineers Credit Hours: 3
CSCI 1320	C Programming Credit Hours: 3
CSCI 1370	Software Development with Java Credit Hours: 3
CSCI 2315	Data Structures Credit Hours: 3
CENG 3312	Digital Circuits Credit Hours: 3
CENG 3112	Laboratory for Digital Circuits Credit Hours: 1
CENG 3313	Linear Circuits Credit Hours: 3
CENG 3113	Laboratory for Linear Circuits Credit Hours: 1
CENG 3316	Electronics Credit Hours: 3
CENG 3116	Laboratory for Electronics Credit Hours: 1
CENG 3331	Introduction to Telecommunications and Networks Credit Hours: 3
CENG 3131	Laboratory for Telecommunications and Networks Credit Hours: 1
CENG 3351	Computer Architecture Credit Hours: 3
CENG 3151	Laboratory for Computer Architecture Credit Hours: 1

CENG 3264	Engineering Design and Project Management
CENG 3371	Microcontroller Programming Credit Hours: 3
CENG 4313	Microprocessor Interfacing Credit Hours: 3
CENG 4113	Laboratory for Microprocessor Interfacing Credit Hours: 1
CENG 4331	Analysis and Design of Linear Systems Credit Hours: 3
CENG 4354	Digital System Design Credit Hours: 3
CENG 4265	Senior Project Credit Hours: 2
CENG 4266	Senior Project Credit Hours: 2
SENG 4310	Introduction to Systems Engineering Credit Hours: 3
SWEN 4342	Software Engineering Credit Hours: 3
WRIT 3315	Advanced Technical Writing Credit Hours: 3

Elective Requirements (9 hours)

Major Electives

9 hours of approved upper level CENG/CSCI are required. CENG Students may not use CSCI 3303, 3311, 3331, 4303 or 4307 as electives.

Computer Information Systems B.S.

The plan in Computer Information Systems (CIS) leads to a bachelor of science (B.S.) degree. This plan prepares students to hold technical, administrative and management positions in the analysis, design, implementation, maintenance, operation and management of computer-based information systems. It is based on a broad general education and upper-level studies in

computer science and other areas related to information systems, such as management, communication and accounting.

The mission of the Computer Information Systems program is to prepare students for technical administrative and management careers in the analysis, design, implementation, maintenance, support, operation and management of computer information systems.

Program Educational Objectives

The Program Educational Objectives of the Computer Information Systems (CIS) program strike a balance between theory and practice of computer science and computer information systems. This balance satisfies both regional and national needs. Graduates of the CIS program are equipped with sound technical knowledge and skills, and an understanding of Information Systems environments. They are provided a broad education to attain productive employment, prepare them for success in further studies, and continue lifelong learning. Specifically, we want students engaged in:

Professional Practice

Graduates will be highly proficient in computer information systems in various capacities, including, but not limited to, programmer, systems analyst, information technology consultant, information technology support specialist, and information systems manager.

Professional Growth

Graduates will demonstrate continuous career improvement, evidenced by increasing responsibility and leadership, participation in further studies, or transition into other technical

or professional careers. Associated skills include initiative, innovation, creativity, effective communication, and teamwork.

Professional Conduct

Graduates will possess an awareness of the social and ethical implications of their work and their behavior. The CIS program at the University of Houston–Clear Lake is accredited by the Computing Accreditation Commission of ABET, http://www.abet.org.

Requirements

This degree requires 120 hours and includes 42 hours of University Core. However; some of the Major Requirements courses listed below also satisfy University Core. If other courses are taken to satisfy University Core, the Major Requirements below are still necessary for graduation and substitutions are not accepted.

University Core Requirements (42 Hours)

Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
MATH 1325	Calculus for Business and Social Sciences Credit Hours: 3	
Life and Physical Sciences (6 hours)		
ASTR 1303	Stars and Galaxies Credit Hours: 3	
ASTR 1304	Solar System Credit Hours: 3	
BIOL 1306	Biology for Science Majors I Credit Hours: 3	

BIOL 1307	Biology for Science Majors II Credit Hours: 3	
BIOL 1308	Biology for Non-Science Majors I	
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3	
BIOL 2301	Anatomy & Physiology I Credit Hours: 3	
BIOL 2302	Anatomy & Physiology II Credit Hours: 3	
CHEM 1305	Introductory Chemistry I Credit Hours: 3	
CHEM 1311	General Chemistry I	
CHEM 1312	General Chemistry II Credit Hours: 3	
ENSC 1301	Environmental Science I Credit Hours: 3	
ENSC 1302	Environmental Science II Credit Hours: 3	
GEOL 1303	Physical Geology Credit Hours: 3	
GEOL 1304	Historical Geology Credit Hours: 3	
PHYS 1301	College Physics I Credit Hours: 3	
PHYS 1302	College Physics II Credit Hours: 3	
PHYS 2325	University Physics I Credit Hours: 3	
PHYS 2326	University Physics II Credit Hours: 3	
Language, Philosophy and Cultur	e (3 hours)	
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
ARTS 1303	World Art Survey I Credit Hours: 3	

ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
American History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social and Behavioral Sciences (3 hours)	
ECON 2302	Principles of Microeconomics Credit Hours: 3	
Component Area Option (6 hours)		
Two 1- hour Life and PhysicalScience Labs		
COMM 1315	Public Speaking Credit Hours: 3	
PSYC 1100	Learning Frameworks Credit Hours: 1	

Major Requirements (62 Hours)

Required minimum grade for all Major Requirements is "C-".

Major Requirements	
ACCT 2301	Principles of Accounting I - Financial Credit Hours: 3
CINF 1370	Introduction to Computer Information Systems Credit Hours: 3
CINF 3321	Information Systems Theory and Practice Credit Hours: 3
CINF 3331	Business Data Communications Credit Hours: 3
CINF 4320	Web Application Development Credit Hours: 3

CINF 4324	Modern System Analysis and Design Credit Hours: 3
CINF 4364	Computer Systems Administration Credit Hours: 3
CINF 4388	Senior Project in Computer Information Systems Credit Hours: 3
CSCI 1470	Computer Science I Credit Hours: 4
CSCI 1471	Computer Science II Credit Hours: 4
CSCI 2315	Data Structures Credit Hours: 3
CSCI 4333	Design of Database Systems Credit Hours: 3
DSCI 3331	Quantitative Methods for Management Credit Hours: 3
ECON 2302	Principles of Microeconomics Credit Hours: 3
MATH 1325	Calculus for Business and Social Sciences Credit Hours: 3
MATH 2305	Discrete Mathematics
MGMT 3301	Management Theory and Practice Credit Hours: 3
STAT 3308	Computational Statistics Credit Hours: 3
SWEN 4342	Software Engineering Credit Hours: 3
WRIT 3312	Written Communications in Business Credit Hours: 3
WRIT 3315	Advanced Technical Writing Credit Hours: 3
Additional Major Requirements	
Choose one	
ITEC 4342	Information Technology Project Management Credit Hours: 3
ITEC 4313	Emerging Information Technology Credit Hours: 3

Elective Requirements (16 hours)

Elective Requirements

6 hours of 3000 or 4000 level Approved Business electives, excluding ISAM 6 hours of 3000 or 4000 level Approved CINF/CSCI electives4 hours of 3000 or 4000 level Approved CINF/CSCI/ITEC electives

4000 level Approved CINF/CSCI/ITEC electives		
Web-Application and E-Commerce Specialization		
Students interested in Web Applications and E-commerce should consider the following as electives:		
CSCI 4315	Advanced Software Development With .Net Framework and C# Credit Hours: 3	
CINF 4334	Electronic Commerce Credit Hours: 3	
Computer Systems and Security	Specialization	
Students interested in Computer Systems and Security should consider the following as electives:		
CSCI 4314	Advanced Software Design With Java Credit Hours: 3	
CSCI 4312	Network Protocols Credit Hours: 3	
CSCI 4354	Operating Systems Credit Hours: 3	
CINF 4323	Computer Security Credit Hours: 3	
Telecommunications Specialization		
Students interested in Telecommunications should select the following:		
CSCI 4312	Network Protocols Credit Hours: 3	

Computer Science B.S.

The plan in Computer Science (CS) leads to a bachelor of science (B.S.) degree. This plan emphasizes the development of the skills and analytical abilities necessary to specify, design and develop computerbased solutions to complex systems problems. Students receive extensive instruction in software and hardware principles; in scientific, industrial and commercial applications; and in the supporting mathematical tools. The curriculum allows students to develop a broad background in

computer science areas relating to system and application software development.

The mission of the undergraduate Computer Science program is to prepare students for productive careers in computing by providing an excellent and diverse environment for learning, research, and practice of computing theories, computer applications and software development.

Program Educational Objectives

The Program Educational Objectives of the Computer Science (CS) program strike a balance between theory and practice of computer science. Graduates of the CS program are equipped with sound technical knowledge and skills, and strong computer science fundamentals. They are provided a broad education to attain productive employment, prepare them for success in further studies, and continue lifelong learning. Specifically, we want students engaged in:

Professional Practice

Graduates will be highly proficient in computer science in various capacities, including, but not limited to, programmer, systems analyst, technical consultant, researcher, and project manager.

Professional Growth

Graduates will demonstrate continuous career improvement, evidenced by increasing responsibility and leadership, participation in further studies, or transition into other technical or professional careers. Associated skills include initiative, innovation, creativity, effective communication, and teamwork.

Professional Conduct

Graduates will possess an awareness of the social and ethical implications of their work and their behavior. The Computer Science program at the University of Houston–Clear Lake is accredited by the Computing Accreditation Commission of ABET, http://www.abet.org.

Scholastic Performance Requirements for Computer Science Undergraduates

The UHCL graduation requirements stipulate that a student must achieve an overall minimum grade point average (GPA) of 2.0. The Computer Science program imposes additional requirements for students to be accepted into, and progress through, the upper-level Computer Science curriculum. The courses listed below (or equivalent courses as approved by the departmental academic adviser) are considered the Lower-Level Core (LLC) for Computer Science and must be completed with a grade of C- or better and a cumulative GPA of 2.5 or higher:

CSCI 1470, CSCI 1471, CSCI 2315, PHYS 2325 and lab, PHYS 2326 and lab, MATH 2413, MATH 2414, MATH 2305 and WRIT 1301.

Students may enroll in upper-level (3000-level) Computer Science or Computer Engineering courses after successfully completing the Computer Science LLC. Admission to upper-level status will be granted to students who successfully complete the Computer Science LLC courses during their freshman or sophomore years and have an overall UHCL GPA of 2.5 or higher. No LLC course may be attempted more than two times without consulting an assigned faculty adviser.

Requirements

This degree requires 122 hours and includes 42 hours of University Core. However, some of the Major Requirements courses listed below also satisfy University Core. If other courses are taken to satisfy University Core, the Major Requirements below are still necessary for graduation and substitutions are not accepted.

University Core Requirements (42 Hours)

Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
MATH 2413	Calculus I Credit Hours: 4	
Additional Information Three (3) hours of Calculus will count toward the University Core and one (1) hour will count toward the Major.		
Life and Physical Sciences (6 hours)		
PHYS 2325	University Physics I Credit Hours: 3	
PHYS 2326	University Physics II Credit Hours: 3	
Language, Philosophy and Cultur	re (3 hours)	
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
ARTS 1303	World Art Survey I Credit Hours: 3	

ARTS 1304	World Art Survey II Credit Hours: 3		
ARTS 2379	Arts and the Child Credit Hours: 3		
American History (6 hours)			
HIST 1301	United States History I Credit Hours: 3		
HIST 1302	United States History II Credit Hours: 3		
Government/ Political Science (6	Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3		
POLS 2306	Texas Government Credit Hours: 3		
Social and Behavioral Sciences (3 hours)			
ANTH 2346	General Anthropology Credit Hours: 3		
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3		
ECON 2301	Principles of Macroeconomics Credit Hours: 3		
ECON 2302	Principles of Microeconomics Credit Hours: 3		
GEOG 1303	World Regional Geography Credit Hours: 3		
PSYC 2301	Introduction to Psychology Credit Hours: 3		
SOCI 1301	Introduction to Sociology Credit Hours: 3		
Component Area Option (6 hours)			
COMM 1315	Public Speaking Credit Hours: 3		
PSYC 1100	Learning Frameworks Credit Hours: 1		
PHYS 2125	Laboratory for University Physics I Credit Hours: 1		
PHYS 2126	Laboratory for University Physics II Credit Hours: 1		

Major Requirements (67 hours)

Required minimum for all Major Requirements is "C-."

Major Requirements	
CHEM 1311	General Chemistry I
CHEM 1111	Laboratory for General Chemistry I Credit Hours: 1
PHYS 2325	University Physics I Credit Hours: 3
PHYS 2125	Laboratory for University Physics I Credit Hours: 1
PHYS 2326	University Physics II Credit Hours: 3
PHYS 2126	Laboratory for University Physics II Credit Hours: 1
MATH 2305	Discrete Mathematics
MATH 2318	Linear Algebra Credit Hours: 3
MATH 2413	Calculus I Credit Hours: 4
MATH 2414	Calculus II
MATH 2320	Differential Equations Credit Hours: 3
STAT 3334	Probability and Statistics for Scientists and Engineers Credit Hours: 3
CSCI 1470	Computer Science I Credit Hours: 4
CSCI 1471	Computer Science II Credit Hours: 4
CSCI 2315	Data Structures Credit Hours: 3
CSCI 3321	Numerical Methods Credit Hours: 3
CSCI 3331	Computer Organization and Assembly Language Credit Hours: 3
CSCI 3352	Advanced Data Structures and Algorithms Credit Hours: 3
CSCI 4333	Design of Database Systems Credit Hours: 3

CSCI 4354	Operating Systems Credit Hours: 3
CSCI 4388	Senior Project in Computer Science Credit Hours: 3
CENG 3312	Digital Circuits Credit Hours: 3
CENG 3112	Laboratory for Digital Circuits Credit Hours: 1
CENG 3331	Introduction to Telecommunications and Networks Credit Hours: 3
CENG 3131	Laboratory for Telecommunications and Networks Credit Hours: 1
CENG 3351	Computer Architecture Credit Hours: 3
CENG 3151	Laboratory for Computer Architecture Credit Hours: 1
SWEN 4342	Software Engineering Credit Hours: 3
WRIT 3315	Advanced Technical Writing Credit Hours: 3

Elective Requirements (12 hours)

Electives

Choose from CSCI/CINF Approved upper-level electives. CSCI 3311 (Programming with Visual Basic) and CSCI 3303 (Fundamentals of Programming) will not count as approved electives.

Computer Sciences Scholars Plan - Linked B.S.-M.S. Degree Plans in Computer Sciences

The Computer Science Scholars Plan combines the B.S. degree plan in Computer Science with M.S. degree plan in Computer Science with the intention of allowing highly motivated and qualified students to complete both the B.S. and M.S. degrees in Computer Science in a time and

cost efficient manner. Students in the plan may take up to two courses at the graduate level in their senior year if they have completed the required course prerequisites. These graduate credit hours may be applied toward either the B.S. or M.S. degree, but not both. Additionally, students in the Scholars Plan are expected to begin a graduate research project early in their studies. After admission to the Scholars Plan and successful completion of the B.S. degree in Computer Science, the Computer Science Program Graduate Admissions committee will waive the Graduate Record Examination (GRE) for Scholars with a cumulative GPA of 3.3 or higher and will consider waiving the GRE requirement for others in the program.

Computer Science Scholars Plan Application Requirements:

- Applicants may apply for admission to the program after having successfully completed the following courses with a cumulative GPA of 3.2 or higher; Calculus 2, University Physics l&ll, CS l, CS ll, Data Structures, Digital Circuits and Lab and Computer Organization and Assembly Language.
- Applicants must declare themselves to be Computer Science majors immediately upon admission.
- Applicants must provide a letter of recommendation from a Computer Science faculty adviser familiar with the student's coursework.
- Applicants must interview with the Scholars Plan Admissions Committee.

After admission, successful continuation in the Scholars Plan will require students to:

- Maintain an overall GPA of 3.0 and Computer Science GPA of 3.0. Failure to maintain these averages will result in a one-semester probation period during which the student must improve their cumulative GPA to 3.0 and their Computer Science GPA to 3.0.
- Participate in a research project as an Independent Study course under the supervision of a graduate faculty adviser during the senior undergraduate year.
- Enroll in the Computer Science Graduate Program upon completion of the requirements for the B.S. degree.
- Successfully complete a research project as an Independent Study or graduate thesis under the supervision of a graduate faculty adviser as part of their MS degree coursework.

Students who fail to meet any of these requirements will be dropped from the Scholars Plan, but may continue to pursue the B.S. or M.S. degree. Students who are dropped from the Scholars Program, but still wish to pursue the MS degree, must meet the standard application requirements for admission to the Computer Science Graduate Program.

At the completion of the requirements for each degree the student will be awarded both the B.S. and M.S. degrees. A notation will be made on the student's transcript indicating they have completed the Computer Science Scholars Plan.

In the event a student is unable to complete the entire program of study, s/he is assured the B.S. degree in Computer Science upon completion of the requirements for that degree. In the event a student fails to complete the M.S. degree

requirements, graduate level classes taken while in the program may be applied toward the B.S. degree.

Criminology B.S.

The undergraduate major in Criminology leads to the Bachelor of Science (B.S.) degree. The academic goal of the major is to provide students with an understanding of crime: why it occurs, how it is measured, and how it might be controlled. An additional goal is to help students develop the skills needed to obtain successful career opportunities within the criminal justice system or to advance in their current careers.

University Core Requirements (42 Hours)

Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
Choose ONE of the following courses.		
MATH 1314	College Algebra Credit Hours: 3	
MATH 1332	Contemporary Mathematics Credit Hours: 3	
Life and Physical Sciences (6 hours)		
Choose TWO of the following courses.		
ASTR 1303	Stars and Galaxies Credit Hours: 3	
ASTR 1304	Solar System Credit Hours: 3	
BIOL 1306	Biology for Science Majors I Credit Hours: 3	
BIOL 1307	Biology for Science Majors II Credit Hours: 3	

BIOL 1308	Biology for Non-Science Majors I
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3
BIOL 2301	Anatomy & Physiology I Credit Hours: 3
BIOL 2302	Anatomy & Physiology II Credit Hours: 3
CHEM 1305	Introductory Chemistry I Credit Hours: 3
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II Credit Hours: 3
ENSC 1301	Environmental Science I Credit Hours: 3
ENSC 1302	Environmental Science II Credit Hours: 3
GEOL 1303	Physical Geology Credit Hours: 3
GEOL 1304	Historical Geology Credit Hours: 3
PHYS 1301	College Physics I Credit Hours: 3
PHYS 1302	College Physics II Credit Hours: 3
PHYS 2325	University Physics I Credit Hours: 3
PHYS 2326	University Physics II Credit Hours: 3
Language, Philosophy and Cultu	re (3 hours)
Choose ONE of the following courses.	
HUMN 1301	Humanities Credit Hours: 3
LITR 2341	Literature and Experience Credit Hours: 3
PHIL 1301	Introduction to Philosophy Credit Hours: 3
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3
WGST 1301 Creative Arts (3 Hours)	Women's and Gender Studies
	Women's and Gender Studies

ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
U.S. History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social Behavioral Sciences (3 hours)		
Choose ONE of the following courses.		
ANTH 2346	General Anthropology Credit Hours: 3	
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3	
ECON 2301	Principles of Macroeconomics Credit Hours: 3	
ECON 2302	Principles of Microeconomics Credit Hours: 3	
GEOG 1303	World Regional Geography Credit Hours: 3	
PSYC 2301	Introduction to Psychology Credit Hours: 3	
SOCI 1301	Introduction to Sociology Credit Hours: 3	
Public Speaking (3 hours)		
COMM 1315	Public Speaking Credit Hours: 3	
Component Area Options (3 hours)		
Two 1- hour Life and Physical Science Labs - required co-requisites for the chosen science courses.		
PSYC 1100	Learning Frameworks Credit Hours: 1	

College Core Requirements (3 hours)

48 hours of upper-level credit must be "C" or better.

Core Requirement (3 hours)	
WRIT 3307	Advanced Writing Credit Hours: 3

Major Requirements (48 hours)

Courses	
THREE upper-level CRIM electives are also required. From the list of courses below, only one PSYC or SOCI course may be selected.	
ANTH 3311	Contemporary Cultural Anthropology Credit Hours: 3
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3
CRIM 3312	Criminology Credit Hours: 3
CRIM 4313	Juvenile Delinquency Credit Hours: 3
CRIM 4331	Prison and Society Credit Hours: 3
CRIM 4334	Criminal Law Credit Hours: 3
CRIM 4335	Race and Justice Credit Hours: 3
CRIM 4338	Policing and Society Credit Hours: 3
CRIM 4384	Statistics Credit Hours: 3
CRIM 4385	Research Methods Credit Hours: 3
CRIM 4390	Contemporary Issues in Criminology Credit Hours: 3
PSYC 4311	Social Psychology Credit Hours: 3
PSYC 4351	Abnormal Psychology Credit Hours: 3
SOCI 4312	Social Structure: Class, Power, and Status Credit Hours: 3

SOCI 4322	Theories of Society Credit Hours: 3
Elective Requirements (27 hours)	
Up to 15 hours could be lower-level electives (any 1300/2300 level courses)12 hours must be upper-level (any 330/4300 level courses)	

Early Childhood Care and Education B.S.

The Bachelor of Science in Early Childhood
Care and Education is a 120 credit hour degree
program whose coursework emphasizes children
from birth through age five, although several
courses will cover children's learning through
the primary grades to meet the needs of persons
who also work with the school-age population
within their programs and to meet National
Association for the Education of Young Children
(NAEYC) Teacher Education Accreditation
requirements.

Course content will focus on teaching diverse learners, curriculum and assessment, instructional strategies, child development, family and community relations and leadership skills. It will include multiple opportunities for firsthand field-based experiences and will be based on the NAEYC standards for teacher education programs and the EC-6 Texas Examinations of Educator Standards (TExES) teacher education standards. The Young Children with Disabilities track will also be based on the Council for Exceptional Children Division of Early Childhood (CEC/DEC) teacher education standards.

University Core Requirements (42 hours):

Communication (6 hours)

WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
Choose ONE course from the UHCL core	approved list.	
Life and Physical Sciences (6 hours)		
Choose TWO courses from the UHCL core approved list.		
Language, Philosophy and Culture (3 hours)		
Choose ONE course from the UHCL core approved list.		
Creative Arts (3 Hours)		
Choose ONE course from the UHCL core approved list.		
American History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social and Behavioral Sciences (3 hours)		
Choose ONE course from the UHCL approved core list.		
Component Area Option (6 hours)		
Two 1- hour Life and PhysicalScience Labs		
COMM 1315	Public Speaking Credit Hours: 3	
PSYC 1100	Learning Frameworks Credit Hours: 1	

Major Requirements (63 hours):

ECED 1303	Children and Families Credit Hours: 3

ECED 1311	Historical and Recent Trends in Early Childhood Education Credit Hours: 3
ECED 1318	Nutrition, Health and Safety Credit Hours: 3
ECED 1354	Developmental Theories of Young Children Credit Hours: 3
ECED 4303	Child Guidance and Classroom Management for Young Children Credit Hours: 3
ECED 4305	Literacy Development Birth-Age 5 Credit Hours: 3
ECED 4306	Assessment of Young Children Birth- Age 5 Credit Hours: 3
ECED 4307	Mathematics and Science in Early Childhood Education Credit Hours: 3
ECED 4308	Creativity in Early Childhood Credit Hours: 3
ECED 4309	Advocacy and Parent Engagement Credit Hours: 3
ECED 4320	Play Credit Hours: 3
ECED 4321	Infants and Toddlers Credit Hours: 3
ECED 4322	Cultural Awareness for Young Children Credit Hours: 3
ECED 4323	Preschool Curriculum Credit Hours: 3
ECED 4326	Effective and Positive Classroom Interactions for Young Children Credit Hours: 3
ECED 4332	Early Childhood Special Education Credit Hours: 3
ECED 4377	Practicum Credit Hours: 3
LLLS 4348	Selecting Literature for the Very Young Child Credit Hours: 3
SILC 4318	Linguistic Diversity in Young Children Credit Hours: 3
SPED 4300	Survey of Exceptionalities Credit Hours: 3

WRIT	3304	Writing for Education Credit Hours: 3	
Addi	Additional Information		
	ARTS 2379		
	ECED 4324		
	ECED 4325		
	ECED 4333		
	HLTH 3301		
	HLTH 3303		
	INST 3313		
	MATH 1332		
	MGMT 3301		
	MGMT 3313		
	PSYC 4314		
	SILC 4313		
	SILC 4315		
	WMST 4348		

General Degree Requirements:

- Students must complete at least 120 semester credit hours. A minimum of 45 hours of the 120 semester hours must be advanced (3000-4000 level) course work according to the requirements of the respective major.
- Students must complete the University Core Curriculum requirements (refer to Core Curriculum Requirements in the UHCL Catalog).
- Students must fulfill the statutory requirements of the Texas State Education Code, including the following:
 - Six hours of U.S. History (three hours may be Texas History).
 - Six hours of Constitutions of the United States and Texas.
- Students must demonstrate writing proficiency by completing nine hours of lower-level (1000-2000 level) and upper-level (3000-4000 level) English composition course credit with a minimum grade of "C-" or better. Some majors may require higher grades in English composition.

- Students must complete at least 25% of the credit hours required for the degree (i.e., 30 semester credit hours for a 120 credit hour program) through instruction offered by UHCL to fulfill the Southern Association of Colleges and Schools (SACS) residency requirements.
- Students must complete the final 30 semester hours of 3000 and 4000 level course work in residence at UHCL.
- Students must complete a minimum of 12 semester credit hours of upper-level (3000-4000 level) coursework in the major in residence at UHCL.
- Students must have a cumulative GPA of 2.000 on course work completed at UHCL with grades of "C" or better on at least 30 hours of resident upper-level work. Grades of "C-" or below cannot be applied toward the 30 hours of resident upper-level work.

Environmental Management B.S.

The degree in Environmental Management leads to the bachelor of science. The objective of the plan is to prepare students for positions involving the management of natural resources in a variety of public and private settings. Students are expected to complete 6 hours of course work in chemistry prior to enrolling.

University Core Requirements (42 Hours)

A minimum of 60 Upper-Level (33XX and 43XX) and a total of 120 hours are required for the baccalaureate degree in Environmental Management. A minimum cumulative GPA of 2.0 or higher is required to graduate.

Communication (6 hours)	
WRIT 1301	Composition I Credit Hours: 3
WRIT 1302	Composition II Credit Hours: 3
Additional Information	

Additional Information

Grades must be C- or better.

MATH 1314	College Algebra
	Credit Hours: 3

Additional Information

Choose CHEM 1311

Students may substitute MATH 1324 Finite Math or a math course approved by the faculty coordinator. Students may also substitute MATH 1325 Business Calculus with any 3-hour elective course

Life and Physical Sciences (6 hours)

CHEM 1311	General Chemistry I
Choose an additional course from the approved list	
CHEM 1312	General Chemistry II Credit Hours: 3
ENSC 1301	Environmental Science I Credit Hours: 3
GEOL 1303	Physical Geology Credit Hours: 3
PHYS 1301	College Physics I Credit Hours: 3

Additional Information

Any other courses require faculty approval.

Language, Philosophy and Culture (3 hours)

Choose one course from the approved list	
HUMN 1301	Humanities Credit Hours: 3
LITR 2341	Literature and Experience Credit Hours: 3
PHIL 1301	Introduction to Philosophy Credit Hours: 3
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3

Creative Arts (3 Hours)		
Choose one course from the approved list		
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
American History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social and Behavioral Sciences (3 hours) Choose one course from the approved list		
ANTH 2346	General Anthropology Credit Hours: 3	
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3	
ECON 2301	Principles of Macroeconomics Credit Hours: 3	
ECON 2302	Principles of Microeconomics Credit Hours: 3	
GEOG 1303	World Regional Geography Credit Hours: 3	
PSYC 2301	Introduction to Psychology Credit Hours: 3	
SOCI 1301	Introduction to Sociology Credit Hours: 3	
Additional Information Can be ECON 2301		
Component Area Option (6 hours)		
Two 1- hour Life and Physical Science Labs		

Public Speaking Credit Hours: 3

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COMM 1315

PSYC 1100	Learning Frameworks
	Credit Hours: 1

College Core Requirements (18 hours)

The following courses, or their approved equivalents, together with accounting and economics principles and business law, constitute the business core and are required of all business students. No more than 6 hours of grades in the range of D+, D or D- are permitted in Upper-Level (33XX and 43XX) Business Core Requirements.

Core Requirements (18 hours)	
ACCT 2301	Principles of Accounting I - Financial Credit Hours: 3
ACCT 2302	Principles of Accounting II- Managerial Credit Hours: 3
ECON 2301	Principles of Macroeconomics Credit Hours: 3
ECON 2302	Principles of Microeconomics Credit Hours: 3
LEGL 2301	Legal Environment of Business Credit Hours: 3
MATH 1324	Mathematics for Business and Social Sciences. Credit Hours: 3
Additional Information	

- ACCT 2301 and/or ACCT 2302 can be substituted with additional natural science
- ECON 2301 also satisfies Social/Behavior Science
- MATH 1324 can be substituted with MATH 1325, MATH 2412 or Math

Major Requirements (45 hours)

All courses within the Major Requirements must be completed with a grade of C- or better. A minimum cumulative GPA of 2.0 or higher is required to graduate.

Major Requirements (27 hours)

DSCI 3321	Statistics I Credit Hours: 3
ENVR 3311	Foundations of Environmental Management Credit Hours: 3
ENVR 4313	Techniques of Environmental Assessment Credit Hours: 3
ENVR 4315	Introduction to Environmental Law Credit Hours: 3
ENVR 4332	The Process of Environmental Permitting Credit Hours: 3
ENVR 4333	Introduction to Pollution Control Technology Credit Hours: 3
ENVR 4336	Administrative Practice and Ethical Issues Credit Hours: 3
MGMT 3301	Management Theory and Practice Credit Hours: 3
WRIT 3315	Advanced Technical Writing Credit Hours: 3

Additional Information

STAT 3308 – Computational Statistics can be substituted with DSCI 3321

Select two of the following courses: (6 hours):	
ENVR 4311	Principles of Air Quality Management Credit Hours: 3
ENVR 4312	Water Management Principles Credit Hours: 3
ENVR 4317	Solid Waste Management Practices Credit Hours: 3
ENVR 4391	Selected Topics in Environmental Management Credit Hours: 3

Additional Information

- MGMT 4312 Capstone course--requires permission.
- ENVR 4391--Special Topics Courses. Topic must be approved by faculty coordinator.

Select two of the following courses (6 hours):

GEOG 4301	Urban Geography Credit Hours: 3
GEOG 4312	Human Geography Credit Hours: 3

LEGL 3351	Legal Research Credit Hours: 3	
LEGL 4353	Dispute Resolution Credit Hours: 3	
MGMT 3313	Organizational Communication Credit Hours: 3	
MGMT 3331	Human Resource Management Credit Hours: 3	
MGMT 4326	Effective Negotiations Credit Hours: 3	
MGMT 4327	Leadership Credit Hours: 3	
MGMT 4353	International Business Management Credit Hours: 3	
MGMT 4354	Organizational Behavior Theory and Application Credit Hours: 3	
MGMT 4357	Government Budget Planning and Analysis Credit Hours: 3	
Select two of the following courses (6 hours)		
BIOL 3311	Marine Biology	
	Credit Hours: 3	
BIOL 3333	Credit Hours: 3 Environmental Biology Credit Hours: 3	
	Environmental Biology	
BIOL 3333	Environmental Biology Credit Hours: 3 Epidemiology	
BIOL 3333 BIOL 3335	Environmental Biology Credit Hours: 3 Epidemiology Credit Hours: 3 Human Anatomy	
BIOL 3333 BIOL 3335 BIOL 3373	Environmental Biology Credit Hours: 3 Epidemiology Credit Hours: 3 Human Anatomy Credit Hours: 3 Ecology	
BIOL 3333 BIOL 3335 BIOL 3373 BIOL 4311	Environmental Biology Credit Hours: 3 Epidemiology Credit Hours: 3 Human Anatomy Credit Hours: 3 Ecology Credit Hours: 3 Biology of Fishes	
BIOL 3333 BIOL 3335 BIOL 3373 BIOL 4311	Environmental Biology Credit Hours: 3 Epidemiology Credit Hours: 3 Human Anatomy Credit Hours: 3 Ecology Credit Hours: 3 Biology of Fishes Credit Hours: 3 Environmental Chemistry	
BIOL 3333 BIOL 3335 BIOL 3373 BIOL 4311 BIOL 4313 CHEM 3333	Environmental Biology Credit Hours: 3 Epidemiology Credit Hours: 3 Human Anatomy Credit Hours: 3 Ecology Credit Hours: 3 Biology of Fishes Credit Hours: 3 Environmental Chemistry Credit Hours: 3 Environmental Sampling and Monitoring	

Fundamentals of Geographic Information Systems

Problems in Geographic Information

Credit Hours: 3

Systems Credit Hours: 3

GEOG 4321

GEOG 4322

GEOL 3307	Geographical Information Systems Credit Hours: 3
GEOL 3333	Environmental Geology Credit Hours: 3
GEOL 4335	Applied GIS Credit Hours: 3
GEOL 4323	Soils in the Environment Credit Hours: 3
GEOL 4327	Natural Disasters Credit Hours: 3
GEOL 4356	Soil and Groundwater Remediation Credit Hours: 3
INDH 3311	Industrial Health and Hygiene Credit Hours: 3
INDH 3332	Principles of Professional Safety Credit Hours: 3
INDH 3333	Environmental Safety and Health Credit Hours: 3
Additional Information	
Any other courses require faculty approval.	

Upper-Level Elective Requirements (15 hours)

ENVR Elective (3 hours)

33XX or 43XX ENVR course not already taken

General Electives (6 hours)

33XX or 43XX courses offered by Colleges of Business, Human Sciences & Humanities, Science & Computer or Education

Non-Business Electives (6 hours)

Same as General Elective EXCEPT: ACCT, DSCI, FINC, ISAM, MGMT, and MKTG courses cannot fulfill non-business electives.

Environmental Science B.S.

The plan in Environmental Science leads to the bachelor of science (B.S.) degree. This plan seeks through an interdisciplinary approach to prepare students for opportunities in the private sector and in governmental agencies where environmental issues are

being addressed. Graduates of the plan will also be prepared to pursue further academic training in Environmental Science. Students may also prepare for the professional certification examinations in Industrial Hygiene and/or Safety.

Students must specialize in one of the following areas:

- · Environmental Biology
- Environmental Chemistry
- Environmental Geology
- · Industrial Hygiene
- Safety

The undergraduate Environmental Science–Industrial Hygiene and Safety plans are accredited by the Applied Science Commission of ABET, http://www.abet.org.

University Core Requirements (42 Hours)

Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
MATH 2413	Calculus I Credit Hours: 4	
Additional Information Three (3) hours of Calculus will count toward the University Core and one (1) hour will count toward the Major.		
Life and Physical Sciences (6 hours)		
CHEM 1311	General Chemistry I	
CHEM 1312	General Chemistry II Credit Hours: 3	
Language, Philosophy and Culture (3 hours)		

HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
American History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6	6 hours)	
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government	
	Credit Hours: 3	
Social and Behavioral Sciences (-	
Social and Behavioral Sciences (-	
	3 hours) General Anthropology	
ANTH 2346	3 hours) General Anthropology Credit Hours: 3 Introduction to Criminal Justice	
ANTH 2346 CRIM 1301	General Anthropology Credit Hours: 3 Introduction to Criminal Justice Credit Hours: 3 Principles of Macroeconomics	
ANTH 2346 CRIM 1301 ECON 2301	General Anthropology Credit Hours: 3 Introduction to Criminal Justice Credit Hours: 3 Principles of Macroeconomics Credit Hours: 3 Principles of Microeconomics	
ANTH 2346 CRIM 1301 ECON 2301 ECON 2302	General Anthropology Credit Hours: 3 Introduction to Criminal Justice Credit Hours: 3 Principles of Macroeconomics Credit Hours: 3 Principles of Microeconomics Credit Hours: 3 World Regional Geography	
ANTH 2346 CRIM 1301 ECON 2301 ECON 2302 GEOG 1303	General Anthropology Credit Hours: 3 Introduction to Criminal Justice Credit Hours: 3 Principles of Macroeconomics Credit Hours: 3 Principles of Microeconomics Credit Hours: 3 World Regional Geography Credit Hours: 3 Introduction to Psychology	

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Component Area Option (6 hours)

CHEM 1111	Laboratory for General Chemistry I Credit Hours: 1
CHEM 1112	Laboratory for General Chemistry II Credit Hours: 1
COMM 1315	Public Speaking Credit Hours: 3
PSYC 1100	Learning Frameworks Credit Hours: 1

Major Requirements (33 Hours)

The following courses must be completed with the grade of "C-" or better:

Major Requirements	
WRIT 3315	Advanced Technical Writing Credit Hours: 3
CHEM 1311	General Chemistry I
CHEM 1111	Laboratory for General Chemistry I Credit Hours: 1
CHEM 1312	General Chemistry II Credit Hours: 3
CHEM 1112	Laboratory for General Chemistry II Credit Hours: 1
CHEM 2323	Organic Chemistry I Credit Hours: 3
CHEM 2123	Laboratory for Organic Chemistry I
CHEM 3333	Environmental Chemistry Credit Hours: 3
BIOL 3333	Environmental Biology Credit Hours: 3
GEOL 3333	Environmental Geology Credit Hours: 3
INDH 3333	Environmental Safety and Health Credit Hours: 3
MATH 2413	Calculus I Credit Hours: 4
PHYS 1301	College Physics I Credit Hours: 3
PHYS 1101	Laboratory for College Physics I Credit Hours: 1
PHYS 1302	College Physics II Credit Hours: 3

PHYS 1102	Laboratory for College Physics II Credit Hours: 1
STAT 3308	Computational Statistics Credit Hours: 3
Additional Information	
In addition ENSC/BIOL 43xx: 3-hour Internship, Co-op, Independent Study, Seminar or Advanced Studies.	

Specialization Requirements (44 hours)

Specialization requirements and approved upper-level electives must total 44 hours and must be completed with a grade of "C-"or better. Specialization electives are junior/senior level or related classes and must be approved by a faculty adviser.

Environmental Biology Specialization	
BIOL 1306	Biology for Science Majors I Credit Hours: 3
BIOL 1106	Laboratory for Biology for Science Majors I Credit Hours: 1
BIOL 1307	Biology for Science Majors II Credit Hours: 3
BIOL 1107	Laboratory for Biology for Science Majors II Credit Hours: 1
BIOL 4334	Environmental Microbiology Credit Hours: 3
BIOL 4311	Ecology Credit Hours: 3
BIOL 4323	Field Biology Credit Hours: 3
BIOL 4325	Environmental Toxicology Credit Hours: 3
BIOL 4344	Comparative Animal Physiology Credit Hours: 3
CHEM 4251	Laboratory for Environmental Analysis Credit Hours: 2
CHEM 4355	Environmental Sampling and Monitoring Credit Hours: 3

Additional Environmenta	l Biology Specialization Courses	
Choose one of the following courses:BIOL 4313 and BIOL 4113		
BIOL 2428	Vertebrate Zoology Credit Hours: 4	
BIOL 3311	Marine Biology Credit Hours: 3	
BIOL 4305	Ecology of the Amazon Credit Hours: 3	
BIOL 4327	Plant Identification Credit Hours: 3	
Environmental Biology S	pecialization Electives	
Select 12-13 hours of specializ	zation electives	
Environmental Chemistry Specialization		
CHEM 2301	Analytical Chemistry I Credit Hours: 3	
CHEM 2302	Analytical Chemistry II Credit Hours: 3	
CHEM 3320	Survey of Physical Chemistry Credit Hours: 3	
CHEM 4251	Laboratory for Environmental Analysis Credit Hours: 2	
CHEM 4352	Water Chemistry and Water Pollution Credit Hours: 3	
CHEM 4355	Environmental Sampling and Monitoring Credit Hours: 3	
СНЕМ 4356	Soil & Groundwater Remediation Credit Hours: 3	
СНЕМ 4367	Instrumental Analysis Credit Hours: 3	
GEOL 4323	Soils in the Environment Credit Hours: 3	
CHEM 2325	Organic Chemistry II Credit Hours: 3	
CHEM 2125	Laboratory for Organic Chemistry II Credit Hours: 1	
Environmental Chemistry Specialization Electives		
Select 14 hours of specialization electives		

CHEM 4251	Laboratory for Environmental Analysis Credit Hours: 2
CHEM 4355	Environmental Sampling and Monitoring Credit Hours: 3
GEOL 1103	Laboratory for Physical Geology Credit Hours: 1
GEOL 1104	Laboratory for Historical Geology Credit Hours: 1
GEOL 1303	Physical Geology Credit Hours: 3
GEOL 1304	Historical Geology Credit Hours: 3
GEOL 3240	Geological Field Methods Credit Hours: 2
GEOL 3307	Geographical Information Systems Credit Hours: 3
GEOL 4323	Soils in the Environment Credit Hours: 3
GEOL 4324	Geomorphology Credit Hours: 3
GEOL 4325	Sedimentation and Stratigraphy Credit Hours: 3
GEOL 4351	Hydrogeology Credit Hours: 3
Environmental Geology Spec	cialization Electives
Select 14 hours of specialization electives	
Industrial Hygiene Specialization	
BIOL 2301	Anatomy & Physiology I Credit Hours: 3
BIOL 2101	Laboratory for Anatomy and Physiology I
BIOL 2302	Anatomy & Physiology II Credit Hours: 3
BIOL 2102	Laboratory for Anatomy and Physiology II

Credit Hours: 1

Credit Hours: 3

Credit Hours: 3

Credit Hours: 3

Environmental Toxicology

Industrial Health and Hygiene

Principles of Professional Safety

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BIOL 4325

INDH 3311

INDH 3332

INDH 4311	Noise and Hearing Conservation Credit Hours: 3
INDH 4315	Industrial Radiological Health Credit Hours: 3
INDH 4321	Ergonomics, Human Factors and Workspace Design Credit Hours: 3
INDH 4322	Industrial Hygiene Sampling and Analysis Credit Hours: 3
INDH 4313	Industrial Ventilation Credit Hours: 3

Industrial Hygiene Specialization Electives

Select 12 hours of specialization electives

Safety Specialization	
BIOL 2301	Anatomy & Physiology I Credit Hours: 3
BIOL 2101	Laboratory for Anatomy and Physiology I
BIOL 2302	Anatomy & Physiology II Credit Hours: 3
BIOL 2102	Laboratory for Anatomy and Physiology II Credit Hours: 1
INDH 3311	Industrial Health and Hygiene Credit Hours: 3
INDH 3332	Principles of Professional Safety Credit Hours: 3
INDH 3340	Techniques of Safety Engineering and Analysis Credit Hours: 3
INDH 4321	Ergonomics, Human Factors and Workspace Design Credit Hours: 3
INDH 4322	Industrial Hygiene Sampling and Analysis Credit Hours: 3
INDH 4316	System Safety and Accident Investigation Credit Hours: 3
INDH 4323	Hazardous Materials and Emergency Management Credit Hours: 3
INDH 4324	Fire Safety Engineering Credit Hours: 3

INDH 4333	Construction and General Industry Safety Credit Hours: 3	
Safety Specialization Electives		
Select 9 hours of specialization electives		
Additional Information		
Additional required electives must be selected in consultation with a faculty adviser and shall be completed with grades "C-" or better. In all cases, prerequisites for each course must be satisfied. A maximum of six hours of environmental management courses may be included.		

Environmental Science Scholars Plan - Linked B.S.-M.S. Degree Plans in Environmental Science

The Environmental Science Scholars Plan combines the B.S. degree plan in Environmental Science with M.S. degree plan in Environmental Science with the intention of allowing highly motivated and qualified students to complete both the B.S. and M.S. degrees in environmental science in a time and cost efficient manner. Students in the plan may take up to four courses at the graduate level in their senior year if they have completed the required course prerequisites. These graduate credit hours may be applied toward either the B.S. or M.S. degree, but not both. Additionally, students in the Scholars Plan are expected to begin a graduate research project early in their studies. After admission to the Scholars Plan and successful completion of the B.S. degree in Environmental Science, the Environmental Science Program Graduate Admissions committee will consider waiving the Graduate Record Examination (GRE) requirement for

admission into the Environmental Science Graduate Program.

Environmental Science scholars plan application Requirements:

- Applicants may apply for admission to the program during their sophomore, junior or senior year in college.
- Applicants must declare themselves to be Environmental Science majors immediately upon admission.
- Applicants must have completed

 a minimum of 12 credit hours in
 mathematics/science coursework at the
 lower level, including a minimum of eight
 credit hours in environmental science core,
 and have a cumulative mathematics/science
 GPA of 3.5.
- Applicants must provide a letter of recommendation from a science faculty adviser familiar with the student's coursework.
- Applicants must interview with the Scholars Plan Admissions Committee.

After admission, successful continuation in the Scholars Plan will require students to:

- Maintain an overall GPA of 3.0 and Mathematics/Science GPA of 3.0. Failure to maintain these averages will result in a one-semester probation period during which the student must improve his/ her cumulative GPA to 3.0, and their Mathematics/Science GPA to 3.0.
- Participate in a research project as an Independent Study course under the supervision of a graduate faculty adviser during the senior undergraduate year.

- Enroll in the Environmental Science Graduate Program upon completion of the requirements for the B.S. degree.
- Successfully complete a research project as an Independent Study or graduate thesis under the supervision of a graduate faculty adviser as part of their MS degree coursework.

Students who fail to meet any of these requirements will be dropped from the Scholars Plan, but may continue to pursue the B.S. or M.S. degree. Students who are dropped from the Scholars Program, but who wish to continue to pursue the M.S. degree, must meet the standard application requirements for admission to the Environmental Science Graduate Program.

At the completion of the requirements for each degree the student will be awarded the B.S. and M.S. degrees. A notation will be made on the student's transcript indicating they have completed the Environmental Science Scholars Plan.

In the event a student is unable to complete the entire program of study, they are assured the B.S. degree in Environmental Science upon completion of the requirements for that degree. In the event a student fails to complete the M.S. degree requirements, graduate level classes taken while in the program may be applied toward the B.S. degree.

Finance B.S.

University Core Requirements (45 Hours)

Develop the skills that prepare you to manage corporate investments and analyze assess

allocation when you graduate with a Bachelor of Science in Finance from University of Houston–Clear Lake. Learn investment skills that prepare you to understand the market's role in valuing firm assets and the decisions of individual and institutional investors. Students will learn from College of Business faculty who consult and serve on boards throughout the community. So, it's no mystery why finance graduates move on to top organizations with jobs in commercial banking, financial planning, investment banking, money managing, insurance and real estate.

The degree in Finance leads to the bachelor of science. A minimum of 57 Upper-Level (33XX and 43XX) hours and a total of 120 hours are required for the baccalaureate degree. A minimum cumulative GPA of 2.0 or higher is required to graduate.

Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Additional Information Grades must be C- or higher.		
Mathematics (6 hours)		
MATH 1324	Mathematics for Business and Social Sciences. Credit Hours: 3	
MATH 1325	Calculus for Business and Social Sciences Credit Hours: 3	
Additional Information Grade must be C- or higher.		
Life and Physical Sciences (6 hours)		
Choose two course from the approved list		

ASTR 1303	Stars and Galaxies Credit Hours: 3	
ASTR 1304	Solar System Credit Hours: 3	
BIOL 1306	Biology for Science Majors I Credit Hours: 3	
BIOL 1307	Biology for Science Majors II Credit Hours: 3	
BIOL 1308	Biology for Non-Science Majors I	
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3	
BIOL 2301	Anatomy & Physiology I Credit Hours: 3	
BIOL 2302	Anatomy & Physiology II Credit Hours: 3	
CHEM 1305	Introductory Chemistry I Credit Hours: 3	
CHEM 1311	General Chemistry I	
CHEM 1312	General Chemistry II Credit Hours: 3	
ENSC 1301	Environmental Science I Credit Hours: 3	
ENSC 1302	Environmental Science II Credit Hours: 3	
GEOL 1303	Physical Geology Credit Hours: 3	
GEOL 1304	Historical Geology Credit Hours: 3	
PHYS 1301	College Physics I Credit Hours: 3	
PHYS 1302	College Physics II Credit Hours: 3	
PHYS 2325	University Physics I Credit Hours: 3	
PHYS 2326	University Physics II Credit Hours: 3	
Language, Philosophy and Culture (3 hours)		
Choose one course from the approved list		
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	

PHIL 1301 Introduction to Philosophy Credit Hours: 3 WGST 1301 Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3 Creative Arts (3 Hours) Choose one course from the approved list ARTS 1303 World Art Survey I Credit Hours: 3 ARTS 1304 World Art Survey II Credit Hours: 3 ARTS 2379 Arts and the Child Credit Hours: 3 American History (6 hours) HIST 1301 United States History I Credit Hours: 3 HIST 1302 United States History II Credit Hours: 3 Government/ Political Science (6 hours) POLS 2305 Federal Government Credit Hours: 3 Social and Behavioral Sciences (3 hours) ECON 2301 Principles of Macroeconomics Credit Hours: 3 Additional Information Other courses may meet this requirement, however, ECON 2301 will still be required for all Business majors Component Area Option (6 hours) Two 1- hour Life and Physical Science Labs COMM 1315 Public Speaking Credit Hours: 3 PSYC 1100 Learning Frameworks Credit Hours: 1
Creative Arts (3 Hours) Choose one course from the approved list ARTS 1303
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Credit Hours: 3 PSYC 1100 Learning Frameworks
8

College Core Requirements (48 hours)

The following courses, or their approved equivalents, together with accounting and economics principles and business law,

constitute the business core and are required of all business students. No more than 6 hours of grades in the range of D+, D or D- are permitted in Upper-Level (33XX and 43XX) Business Core Requirements.

Core Requirements for E	Business Majors (48 hours)
ACCT 2301	Principles of Accounting I - Financial Credit Hours: 3
ACCT 2302	Principles of Accounting II- Managerial Credit Hours: 3
BAPA 1301	Business Principles Credit Hours: 3
ECON 2302	Principles of Microeconomics Credit Hours: 3
ISAM 1305	Business Computer Applications Credit Hours: 3
LEGL 2301	Legal Environment of Business Credit Hours: 3
MATH 1325	Calculus for Business and Social Sciences Credit Hours: 3
DSCI 3321	Statistics I Credit Hours: 3
DSCI 3331	Quantitative Methods for Management Credit Hours: 3
ECON 3311	Money and Banking Credit Hours: 3
FINC 3331	Business Finance Credit Hours: 3
ISAM 3303	Information Systems for Management Credit Hours: 3
MGMT 3301	Management Theory and Practice Credit Hours: 3
MGMT 4312	Strategic Management (Capstone) Credit Hours: 3
MKTG 3301	Principles of Marketing Credit Hours: 3
WRIT 3312	Written Communications in Business Credit Hours: 3
Additional Information MGMT 4312 Capstone course	

Major Requirements (18 hours)

All courses within the Major Requirements must be completed with a grade of C- or better. A minimum cumulative GPA of 2.0 or higher is required to graduate.

Choose one from list (3 hours)	
ACCT 3341	Intermediate Accounting I Credit Hours: 3
ACCT 3332	Financial Reporting and Analysis Credit Hours: 3

Choose one from list (3 hours)	
ACCT 3342	Intermediate Accounting II Credit Hours: 3
FINC 4341	Structure of Financial Statements Credit Hours: 3

Major requirements (12 hours)	
FINC 3333	Intermediate Financial Management Credit Hours: 3
FINC 3353	Investments Credit Hours: 3
FINC 4331	Contemporary Financial Institutions Credit Hours: 3
FINC 4351	International Financial Operations Credit Hours: 3

Elective Requirements (12 hours)

FINC Electives (6 hours)	
Choose two courses from the approved list.	
ACCT 4352	Advanced Financial Accounting Credit Hours: 3
FINC 3301	Personal Money Management Credit Hours: 3
FINC 3351	Real Estate Investment Analysis Credit Hours: 3
FINC 4353	Financial Derivatives Credit Hours: 3
FINC 4361	Treasury Management Credit Hours: 3

FINC 4391	Selected Topics in Finance Credit Hours: 3

General Electives (6 hours)

Choose any two of courses 33XX or 43XX offered by Colleges of Business, Human Sciences & Humanities, Science and Engineering or Education.

Fitness and Human Performance B.S.

The undergraduate major in Fitness and Human Performance leads to the Bachelor of Science (B.S.) degree. Students in this course of study will prepare for careers in physical therapy, occupational therapy, chiropractic medicine, strength and conditioning, health promotion/ corporate wellness, exercise testing, or exercise prescription. Although no specific prerequisite must be met prior to admission to the major, a background in biological and social sciences is strongly recommended. Students interested in the FHP concentrations in Pre-Physical Therapy, Pre-Physician's Assistant, Pre-Occupational Therapy, and Pre-Chiropractic Medicine must possess or acquire specific course requirements (see the Pre-PT, Pre-PA, Pre-OT, and Pre-DC concentration sections below for further information).

University Core Requirements (42 Hours)

Communication (6 hours)	
WRIT 1301	Composition I Credit Hours: 3
WRIT 1302	Composition II Credit Hours: 3
Mathematics (3 hours)	
MATH 1314	College Algebra Credit Hours: 3

Life and Physical Sciences (6 hours)	
BIOL 1306	Biology for Science Majors I Credit Hours: 3
BIOL 1307	Biology for Science Majors II Credit Hours: 3
Language, Philosophy and Cultur	re (3 hours)
Choose ONE of the following courses.	
HUMN 1301	Humanities Credit Hours: 3
LITR 2341	Literature and Experience Credit Hours: 3
PHIL 1301	Introduction to Philosophy Credit Hours: 3
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3
Creative Arts (3 Hours)	
Choose ONE of the following courses.	
ARTS 1303	World Art Survey I Credit Hours: 3
ARTS 1304	World Art Survey II Credit Hours: 3
ARTS 2379	Arts and the Child Credit Hours: 3
U.S. History (6 hours)	
HIST 1301	United States History I Credit Hours: 3
HIST 1302	United States History II Credit Hours: 3
Government/ Political Science (6 hours)
POLS 2305	Federal Government Credit Hours: 3
POLS 2306	Texas Government Credit Hours: 3
Social Behavioral Sciences (3 ho	ours)
Choose ONE of the following courses.	
ECON 2301	Principles of Macroeconomics Credit Hours: 3
ECON 2302	Principles of Microeconomics Credit Hours: 3

PSYC 2301	Introduction to Psychology Credit Hours: 3
Additional Information	
 PSYC 2301 is required for all Pre-Physical Therapy, Pre-Occupational Therapy, Pre-Physician's Assistant, and Pre-Chiropractic Medicine students. ECON 2301 or ECON 2302 is required for students obtaining teacher certification. 	
Public Speaking (3 hours)	
COMM 1315	Public Speaking Credit Hours: 3
Component Area Options (3 hours)	
Two 1- Life and Physical Science Labs - required co-requisites for the chosen science courses.	
PSYC 1100	Learning Frameworks Credit Hours: 1

College Core Requirements (6 hours)

48 hours of upper-level credit must be a "C" or better.

External Department Requireme	nt (3 hours)	
Choose ONE of the following courses.		
ANTH 3362	Medicine, Bodies, and Culture Credit Hours: 3	
GEOG 4301	Urban Geography Credit Hours: 3	
SOCI 4358	Family and Society Credit Hours: 3	
SOCI 4364	Medical Sociology Credit Hours: 3	
Core Requirements (3 hours)		
Choose ONE of the following courses.		
WRIT 3306	Writing for the Social Sciences Credit Hours: 3	
WRIT 3307	Advanced Writing Credit Hours: 3	

Major Requirements (42 hours)

Fitness and Human Performance Courses

HLTH 2301	Introduction to Exercise Science Credit Hours: 3
HLTH 3301	Health, Emergency Care and First Aid Credit Hours: 3
HLTH 3303	Nutrition and Weight Management Credit Hours: 3
HLTH 3304	Principles of Physical Fitness Credit Hours: 3
HLTH 3309	Evidence-Based Practice Credit Hours: 3
HLTH 4301	Physiology of Exercise Credit Hours: 3
HLTH 4302	Biomechanics Credit Hours: 3
HLTH 4305	Seminar in Sports Medicine Credit Hours: 3
HLTH 4308	Resistive Exercise: Theory and Practice Credit Hours: 3
HLTH 4370	Undergraduate Practicum Credit Hours: 3

Concentration Area (24 hours)

Up to 24 hours based on the specific concentration.

Exercise Science Concentration	
BIOL 3173	Laboratory for Human Anatomy Credit Hours: 1
BIOL 3307	Cell Biology Credit Hours: 3
BIOL 3373	Human Anatomy Credit Hours: 3
BIOL 4241	Laboratory for Physiology Credit Hours: 2
BIOL 4341	Biochemistry I Credit Hours: 3
BIOL 4342	Biochemistry II Credit Hours: 3
BIOL 4345	Human Physiology Credit Hours: 3
BIOL 4347	Cellular Physiology Credit Hours: 3

HLTH 3316	
	Applied Kinesiology Credit Hours: 3
HLTH 3317	Motor Development and Learning Credit Hours: 3
HLTH 4307	Peak Performance Credit Hours: 3
HLTH 4309	Research Practicum Credit Hours: 3
HLTH 4379	Internship Credit Hours: 3
HLTH 4391	Selected Topics in Health Credit Hours: 3
PSYC 4316	Brain and Behavior Credit Hours: 3
PSYC 4370	Nonexperimental Methods and Statistics Credit Hours: 3
PSYC 4371	Experimental Methods and Statistics Credit Hours: 3
Health Promotion Concentration	
ANTH 3362	Medicine, Bodies, and Culture Credit Hours: 3
GEOG 4312	Human Geography Credit Hours: 3
HLTH 2303	Personal Health and Fitness Credit Hours: 3
III TII 2215	
HLTH 3315	Health Promotion Programs Credit Hours: 3
HLTH 3315 HLTH 3318	· ·
	Credit Hours: 3 Introduction to Community Health
HLTH 3318	Credit Hours: 3 Introduction to Community Health Credit Hours: 3 Health Inequalities
HLTH 3318 HLTH 3320	Credit Hours: 3 Introduction to Community Health Credit Hours: 3 Health Inequalities Credit Hours: 3 Research Practicum
HLTH 3318 HLTH 3320 HLTH 4309	Credit Hours: 3 Introduction to Community Health Credit Hours: 3 Health Inequalities Credit Hours: 3 Research Practicum Credit Hours: 3 Internship
HLTH 3318 HLTH 3320 HLTH 4309 HLTH 4379	Credit Hours: 3 Introduction to Community Health Credit Hours: 3 Health Inequalities Credit Hours: 3 Research Practicum Credit Hours: 3 Internship Credit Hours: 3 Selected Topics in Health
HLTH 3318 HLTH 3320 HLTH 4309 HLTH 4379 HLTH 4391	Credit Hours: 3 Introduction to Community Health Credit Hours: 3 Health Inequalities Credit Hours: 3 Research Practicum Credit Hours: 3 Internship Credit Hours: 3 Selected Topics in Health Credit Hours: 3 Learning

PSYC 4332	Introduction to Industrial/ Organizational Psychology Credit Hours: 3
PSYC 4356	The Aging Experience Credit Hours: 3
PSYC 4370	Nonexperimental Methods and Statistics Credit Hours: 3
PSYC 4371	Experimental Methods and Statistics Credit Hours: 3

Pre-Physical Therapy Concentration	
BIOL 3173	Laboratory for Human Anatomy Credit Hours: 1
BIOL 3373	Human Anatomy Credit Hours: 3
BIOL 4241	Laboratory for Physiology Credit Hours: 2
BIOL 4345	Human Physiology Credit Hours: 3
HLTH 4379	Internship Credit Hours: 3
PSYC 4370	Nonexperimental Methods and Statistics Credit Hours: 3
PSYC 4371	Experimental Methods and Statistics Credit Hours: 3

Additional Information

- A 3.00 GPA must be maintained for admission to UTMB's PT Plan.
- A 3.00 GPA must be maintained for all science and math courses.
- No grade below a "C" will be accepted by UTMB's PT Plan for any prerequisite course.

Pre-Occupational Therapy Concentration	
BIOL 4345	Human Physiology Credit Hours: 3
BIOL 4241	Laboratory for Physiology Credit Hours: 2
HLTH 4379	Internship Credit Hours: 3
PSYC 4316	Brain and Behavior Credit Hours: 3
PSYC 4351	Abnormal Psychology Credit Hours: 3
PSYC 4370	Nonexperimental Methods and Statistics Credit Hours: 3

Theories of Society Credit Hours: 3	
Pre-Physician's Assistant Concentration	
Laboratory for Human Anatomy Credit Hours: 1	
Human Anatomy Credit Hours: 3	
Organic Chemistry I Credit Hours: 3	
Organic Chemistry II Credit Hours: 3	
Applied Kinesiology Credit Hours: 3	
Brain and Behavior Credit Hours: 3	
Pre-Chiropractic Medicine Concentration	
Laboratory for Human Anatomy Credit Hours: 1	
Human Anatomy Credit Hours: 3	

BIOL 3173 Laboratory for Human Anatomy Credit Hours: 1 BIOL 3373 Human Anatomy Credit Hours: 3 CHEM 2323 Organic Chemistry I Credit Hours: 3 CHEM 2325 Organic Chemistry II Credit Hours: 3 HLTH 3316 Applied Kinesiology Credit Hours: 3 HLTH 4379 Internship Credit Hours: 3

Additional Information

Note: Elective hours will be used to fulfill deficiencies in prerequisite courses.

Electives (0-27 hours)	
At least 9 hours must be 3300/4300 level courses.Lower-Level Electives (18-33 hours depending on the FHP Concentration chosen)	
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II Credit Hours: 3
PHYS 1301	College Physics I Credit Hours: 3
PHYS 1302	College Physics II Credit Hours: 3
SOCI 1301	Introduction to Sociology Credit Hours: 3

Additional Information

- CHEM 1312 AND PHYS 1301 are highly recommended and may be required depending on the concentration chosen.
- HLTH 2303 is highly recommended as a lower-level elective.

UHCL FHP contacts: Dr. Terry Dupler, 281–283–3389, dupler@uhcl.edu; or Ms. Denise Cazes, 281–283–3419, cazes@uhcl.edu.

Fitness and Human Performance B.S. with Grades EC-12 Physical Education Certification

Note: This degree requires a minimum of 130 credit hours.

Students seeking teacher certification for physical education may complete the following program of study. A secondary teaching field in Life Science, Special Education, or Social Studies is required for this concentration.

University Core Requirements (42 Hours)

Communication (6 hours)		
WRIT 1301	Composition I	
	Credit Hours: 3	
WRIT 1302	Composition II	
	Credit Hours: 3	
Mathematics (3 hours)		
MATH 1314	College Algebra	
	Credit Hours: 3	
Life and Physical Sciences (6 hours)		
BIOL 1306	Biology for Science Majors I Credit Hours: 3	
BIOL 1307	Biology for Science Majors II Credit Hours: 3	

Language, Philosophy and Cultu	re (3 hours)	
Choose ONE of the following courses.		
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
Choose ONE of the following courses.		
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
U.S. History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science ((6 hours)	
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social Behavioral Sciences (3 hours)		
Choose ONE of the following courses.		
ECON 2301	Principles of Macroeconomics Credit Hours: 3	
ECON 2302	Principles of Microeconomics Credit Hours: 3	
PSYC 2301	Introduction to Psychology Credit Hours: 3	
Additional Information ECON 2301 or ECON 2302 is required for students obtaining teacher certification.		

Public Speaking (3 hours)	
COMM 1315	Public Speaking Credit Hours: 3
Component Area Options (3 hours)	
Two 1- hour life and Physical Science Labs - required co-requisites for the chosen science courses.	
PSYC 1100	Learning Frameworks Credit Hours: 1

College of Human Sciences and Humanities Core Requirements (6 hours)

48 hours of upper-level credit must be a "B-" or better.

Core Requirement (3 hours)		
Choose ONE of the following courses.		
WRIT 3304	Writing for Education Credit Hours: 3	
WRIT 3306	Writing for the Social Sciences Credit Hours: 3	
WRIT 3307	Advanced Writing Credit Hours: 3	
Choose ONE of the following courses.		
ANTH 3362	Medicine, Bodies, and Culture Credit Hours: 3	
GEOG 4301	Urban Geography Credit Hours: 3	
SOCI 4358	Family and Society Credit Hours: 3	

College of Education Requirements (22 hours)

Teacher Education Program (TEP) Admission Requirements

- · Completion of 60 semester credit hours.
- Completion of prerequisite coursework (EDUC 4310, INST 3313, and SILC 4315).
- $\boldsymbol{\cdot}$ Completion of public speaking requirement.

- Completion of Basic Skills in Reading, Mathematics, and Writing.
- 2.750 GPA overall or in the last 60 semester credit hours.
- Completion of 12 semester credit hours in the subject-specific content area for target teacher certification.
- Application for admission to the Teacher Education Program (TEP).

Core Requirement	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
LLLS 4351	Reading in Content Subjects Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3
SPED 2301	Introduction to Special Populations Credit Hours: 3
SPED 4300	Survey of Exceptionalities Credit Hours: 3
TCED 1301	Exploring Teaching as a Profession Credit Hours: 3
TCED 4102	Secondary (4-8 and 7-12) Content Teacher Seminar Credit Hours: 1

Major Requirements (27 hours)

Courses	
HLTH 2110	Team Games and Sports Credit Hours: 1
HLTH 2113	Individual Games and Sports Credit Hours: 1
HLTH 2115	Innovative Games and Sports Credit Hours: 1
HLTH 3301	Health, Emergency Care and First Aid Credit Hours: 3
HLTH 3317	Motor Development and Learning Credit Hours: 3

HLTH 4301	Physiology of Exercise Credit Hours: 3
HLTH 4302	Biomechanics Credit Hours: 3
HLTH 4305	Seminar in Sports Medicine Credit Hours: 3
HLTH 4307	Peak Performance Credit Hours: 3
HLTH 4308	Resistive Exercise: Theory and Practice Credit Hours: 3
HLTH 4370	Undergraduate Practicum Credit Hours: 3

Pedagogy Requirements (18 hours)

Courses	
HLTH 4311	Methods in Physical Education I Credit Hours: 3
HLTH 4312	Methods in Physical Education II Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3
TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9

Additional Information

- · Enrollment in the courses listed above requires admission to the TEP.
- 3.000 GPA required in pedagogy coursework.
- TCED 4378 must be taken in the long semester immediately preceding the final semester.
- TCED 4398 must be taken in the final semester

Teacher Certification Requirements

- Passing scores on the appropriate state assessments (Texas Examinations of Educator Standards [TExES] are required for recommendation for teacher certification.
 - EC-12 Physical Education TEXES #158
 - EC-12 Pedagogy and Professional Responsibilities TEXES #160

 All courses outside the University Core must be "C-" or better unless otherwise stated.

2nd Teaching Field (15 hours)

Choose one of the following 2nd Teaching Fields.

Life Sciences		
BIOL 3141	Laboratory for Molecular Genetics Credit Hours: 1	
BIOL 3341	Molecular Genetics Credit Hours: 3	
CHEM 1111	Laboratory for General Chemistry I Credit Hours: 1	
CHEM 1112	Laboratory for General Chemistry II Credit Hours: 1	
CHEM 1311	General Chemistry I	
CHEM 1312	General Chemistry II Credit Hours: 3	
TCED 4362	Methods in Secondary Science Credit Hours: 3	
Special Education		
SPED 4311	Assessment in Special Education Credit Hours: 3	
SPED 4312	Diagnostic Instruction for Learners With Special Needs Credit Hours: 3	
SPED 4313	Individualizing Instruction for Students With Disabilities Credit Hours: 3	
SPED 4321	Implementing Positive Behavior Supports Credit Hours: 3	
SPED 4332	Early Childhood Special Education Credit Hours: 3	
Social Sciences		
GEOG 4314	Teaching Geography Credit Hours: 3	
HIST 2301	Texas History Credit Hours: 3	
TCED 4361	Methods in Secondary Social Studies Credit Hours: 3	

Choose ONE of the following courses.		
GEOG 4300	Geography of the United States and Canada Credit Hours: 3	
GEOG 4303	Geography of Texas Credit Hours: 3	
GEOG 4312	Human Geography Credit Hours: 3	
GEOG 4317	Introduction to Globalization Credit Hours: 3	
Choose ONE of the following courses.		
HIST 3325	Colonial America Credit Hours: 3	
HIST 3330	Civil War and Reconstruction Credit Hours: 3	
HIST 3337	U.S. during the Cold War Credit Hours: 3	
HIST 4313	Studies in U.S. History Credit Hours: 3	

General Business B.S.

University Core Requirements (42 Hours)

Discover broad-based skills across the business landscape to launch a start-up or help someone run a successful business by choosing a BA in General Business from University of Houston-Clear Lake. Learning these skills at a university accredited by the Association to Advance Collegiate Schools of Business International makes perfect sense. What are you most passionate about? That's what our general business program asks you. And the odds are the answers for you can be found in UHCL's College of Business. Depending on your learning style, the degree offers you a choice in whether you want to earn your degree online or in a classroom with your peers.

The degree in General Business leads to the bachelor of science. A minimum of 57 Upper–Level (33XX and 43XX) hours and a total of 120 hours are required for the baccalaureate degree. A minimum cumulative GPA of 2.0 or higher is required to graduate.

Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Additional Information Grades must be C- or higher.		
Mathematics (3 hours)		
MATH 1324	Mathematics for Business and Social Sciences. Credit Hours: 3	
Additional Information		

Additional Information

Grade must be C- or higher.

Life and Physical Sciences (6 hours)	
Choose two course from the approved l	ist
ASTR 1303	Stars and Galaxies Credit Hours: 3
ASTR 1304	Solar System Credit Hours: 3
BIOL 1306	Biology for Science Majors I Credit Hours: 3
BIOL 1307	Biology for Science Majors II Credit Hours: 3
BIOL 1308	Biology for Non-Science Majors I
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3
BIOL 2301	Anatomy & Physiology I Credit Hours: 3
BIOL 2302	Anatomy & Physiology II Credit Hours: 3
CHEM 1305	Introductory Chemistry I Credit Hours: 3
CHEM 1311	General Chemistry I

CHEM 1312	General Chemistry II Credit Hours: 3	
ENSC 1301	Environmental Science I Credit Hours: 3	
ENSC 1302	Environmental Science II Credit Hours: 3	
GEOL 1303	Physical Geology Credit Hours: 3	
GEOL 1304	Historical Geology Credit Hours: 3	
PHYS 1301	College Physics I Credit Hours: 3	
PHYS 1302	College Physics II Credit Hours: 3	
PHYS 2325	University Physics I Credit Hours: 3	
PHYS 2326	University Physics II Credit Hours: 3	
Language, Philosophy and Culture (3 hours)		
Choose one course from the app	proved list	
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
Choose one course from the approved list		
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	

United States History I Credit Hours: 3

United States History II Credit Hours: 3

American History (6 hours)

HIST 1301

HIST 1302

Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social and Behavioral Sciences (3 hours) Choose one course from the approved list		
ECON 2301	Principles of Macroeconomics Credit Hours: 3	
Additional Information Other courses may meet this require required for all Business majors.	ment, however, ECON 2301 will still be	
Component Area Option (6 ho	urs)	
Two 1- hour Life and Physical Science	ee Labs	
COMM 1315	Public Speaking Credit Hours: 3	
PSYC 1100	Learning Frameworks Credit Hours: 1	

College Core Requirements (48 hours)

The following courses, or their approved equivalents, together with accounting and economics principles and business law, constitute the business core and are required of all business students. No more than 6 hours of grades in the range of D+, D or D- are permitted in Upper-Level (33XX and 43XX) Business Core Requirements.

Core Requirements for Business Majors (48 hours)	
ACCT 2301	Principles of Accounting I - Financial Credit Hours: 3
ACCT 2302	Principles of Accounting II- Managerial Credit Hours: 3
BAPA 1301	Business Principles Credit Hours: 3
ECON 2302	Principles of Microeconomics Credit Hours: 3

ISAM 1305	Business Computer Applications Credit Hours: 3
LEGL 2301	Legal Environment of Business Credit Hours: 3
DSCI 3321	Statistics I Credit Hours: 3
DSCI 3331	Quantitative Methods for Management Credit Hours: 3
ECON 3311	Money and Banking Credit Hours: 3
FINC 3331	Business Finance Credit Hours: 3
ISAM 3303	Information Systems for Management Credit Hours: 3
MGMT 3301	Management Theory and Practice Credit Hours: 3
MGMT 4312	Strategic Management (Capstone) Credit Hours: 3
MKTG 3301	Principles of Marketing Credit Hours: 3
WRIT 3312	Written Communications in Business Credit Hours: 3
Additional Information	

MGMT 4312 Capstone course--requires permission.

Major Requirements (18 hours)

All courses within the Major Requirements must be completed with a grade of C- or better. A minimum cumulative GPA of 2.0 or higher is required to graduate.

Major Requirements (18 hours)

18 hours in College of Business course work with no more than 6 hours of course work from any one of the following areas: Accounting, Decision Sciences, Economics, Finance, Healthcare Administration, Information Systems, Management, Marketing

Elective Requirements (12 hours)

Elective Requirements (12 hours)

Choose two courses from any Upper–Level (33xx or 43XX) elective courses offered by Colleges of Business, Human Sciences & Humanities, Science & Computer Engineering or Education.

Geography B.S.

The Geography major offers two undergraduate degrees, a Bachelor of Science and a Bachelor of Science with Grades 7-12 Social Studies Certification.

All students complete a core within Geography that provides a broad background in the discipline and prepares them to complete the Geography degree. The Bachelor of Science emphasizes proficiency in human geography and human/environment interactions, and it develops skills in geospatial technologies. Students are encouraged to develop with their adviser individualized programs of study. The Bachelor of Science with Grades 7–12 Social Studies Certification prepares future social studies teachers. In addition to a core of geography courses, the degree plan requires education courses that lead to certification.

Please note that the B.S. in Geography curriculum will undergo significant changes for publication in the 2018–2019 catalog. Specifically, the curriculum will shift from general geography to a more applied degree focused on geographic information systems and geo–spatial analysis. Students are encouraged to contact the Geography program director for more information.

University Core Requirements (42 Hours)

Communication (6 hours)	
WRIT 1301	Composition I Credit Hours: 3
WRIT 1302	Composition II Credit Hours: 3

Mathematics (3 hours)	
Choose ONE of the following courses.	
MATH 1314	College Algebra Credit Hours: 3
MATH 1332	Contemporary Mathematics Credit Hours: 3
Life and Physical Sciences (6 ho	urs)
Choose TWO of the following courses.	
ASTR 1303	Stars and Galaxies Credit Hours: 3
ASTR 1304	Solar System Credit Hours: 3
BIOL 1306	Biology for Science Majors I Credit Hours: 3
BIOL 1307	Biology for Science Majors II Credit Hours: 3
BIOL 1308	Biology for Non-Science Majors I
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3
BIOL 2301	Anatomy & Physiology I Credit Hours: 3
BIOL 2302	Anatomy & Physiology II Credit Hours: 3
CHEM 1305	Introductory Chemistry I Credit Hours: 3
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II Credit Hours: 3
ENSC 1301	Environmental Science I Credit Hours: 3
ENSC 1302	Environmental Science II Credit Hours: 3
GEOL 1303	Physical Geology Credit Hours: 3
GEOL 1304	Historical Geology Credit Hours: 3
PHYS 1301	College Physics I Credit Hours: 3
PHYS 1302	College Physics II Credit Hours: 3
PHYS 2325	University Physics I Credit Hours: 3

PHYS 2326	University Physics II Credit Hours: 3	
Additional Information		
Accompanying lab must be taken in the	same semester.	
Language, Philosophy and Cultur	re (3 hours)	
Choose ONE of the following courses.		
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
Choose ONE of the following courses.		
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
U.S. History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social Behavioral Sciences (3 hours)		
Choose ONE of the following courses.		
ANTH 2346	General Anthropology Credit Hours: 3	
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3	

ECON 2301	Principles of Macroeconomics Credit Hours: 3	
ECON 2302	Principles of Microeconomics Credit Hours: 3	
GEOG 1303	World Regional Geography Credit Hours: 3	
PSYC 2301	Introduction to Psychology Credit Hours: 3	
SOCI 1301	Introduction to Sociology Credit Hours: 3	
Additional Information Students cannot choose GEOG 1303 to meet this requirement.		
Public Speaking (3 hours)		
COMM 1315	Public Speaking Credit Hours: 3	
Component Area Options (3 hours)		
Two 1- hour Life and Physical Science Labs - required co-requisites for the chosen science courses.		
PSYC 1100	Learning Frameworks Credit Hours: 1	

College Core Requirements (3 hours)

Core Requirement (3 hours)	
Choose ONE of the following courses.	
WRIT 3306	Writing for the Social Sciences Credit Hours: 3
WRIT 3307	Advanced Writing Credit Hours: 3
Additional Information Advanced Writing - Grade of "B-" or better is required.	

Major Requirements (36 hours)

Sociology Course		
SOCI 4384	Statistics Credit Hours: 3	
Geography Courses		
GEOG 1301	Modern Physical Geography Credit Hours: 3	
GEOG 1303	World Regional Geography Credit Hours: 3	

GEOG 4300	Geography of the United States and Canada Credit Hours: 3
GEOG 4301	Urban Geography Credit Hours: 3
GEOG 4302	Geography of Latin America Credit Hours: 3
GEOG 4303	Geography of Texas Credit Hours: 3
GEOG 4312	Human Geography Credit Hours: 3
GEOG 4317	Introduction to Globalization Credit Hours: 3
GEOG 4321	Fundamentals of Geographic Information Systems Credit Hours: 3
GEOG 4323	Advanced Geographic Information Systems Credit Hours: 3

Additional courses (3 hours)

Any 3300/4300-level course chosen from ARTS, COMM, HIST, HUMN, LITR, PHIL, OR WRIT.

Electives (39 hours)

Courses should be selected in consultation with faculty adviser.

Geography B.S. with Social Studies 7-12 Certification

Note: This degree requires 127 credit hours.

University Core Requirements (42 Hours)

Communication (6 hours)	
WRIT 1301	Composition I Credit Hours: 3
WRIT 1302	Composition II Credit Hours: 3
Mathematics (3 hours)	
Choose ONE of the following courses.	

MATH 1314	College Algebra Credit Hours: 3
MATH 1332	Contemporary Mathematics Credit Hours: 3
Life and Physical Sciences (6 hours)	
Choose TWO of the following courses.	
ASTR 1303	Stars and Galaxies Credit Hours: 3
ASTR 1304	Solar System Credit Hours: 3
BIOL 1306	Biology for Science Majors I Credit Hours: 3
BIOL 1307	Biology for Science Majors II Credit Hours: 3
BIOL 1308	Biology for Non-Science Majors I
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3
BIOL 2301	Anatomy & Physiology I Credit Hours: 3
BIOL 2302	Anatomy & Physiology II Credit Hours: 3
CHEM 1305	Introductory Chemistry I Credit Hours: 3
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II Credit Hours: 3
ENSC 1301	Environmental Science I Credit Hours: 3
ENSC 1302	Environmental Science II Credit Hours: 3
GEOL 1303	Physical Geology Credit Hours: 3
GEOL 1304	Historical Geology Credit Hours: 3
PHYS 1301	College Physics I Credit Hours: 3
PHYS 1302	College Physics II Credit Hours: 3
PHYS 2325	University Physics I Credit Hours: 3
PHYS 2326	University Physics II Credit Hours: 3

Language, Philosophy	and Culture (3 hours)	
Choose ONE of the followir	ng courses.	
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours	;)	
Choose ONE of the following courses.		
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
U.S. History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political	Science (6 hours)	
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social Behavioral Scie	nces (3 hours)	
Choose ONE of the followir	ng courses.	
ECON 2301	Principles of Macroeconomics Credit Hours: 3	
ECON 2302	Principles of Microeconomics Credit Hours: 3	
Public Speaking (3 hours)		
COMM 1315	Public Speaking Credit Hours: 3	

Additional Information

Component Area Options (3 hours)	
Two 1- hour Life and Physical Science Labs - required co-requisites for the chosen science courses.	
PSYC 1100	Learning Frameworks Credit Hours: 1

College of Human Sciences and Humanities Core Requirements (6 hours)

48 hours of upper-level credit must be "C" or better.

Core Requirement (3 hours)	
Choose ONE of the following courses.	
WRIT 3304	Writing for Education Credit Hours: 3
WRIT 3306	Writing for the Social Sciences Credit Hours: 3
WRIT 3307	Advanced Writing Credit Hours: 3
Additional Information Grade of "B-" or better is required.	
Additional Core Courses (3 hours)	

College of Education Core Requirements (18 hours)

Choose from any 3300/4300-level course in ARTS, COMM, HIST, HUMN, LITR,

PHIL, or WRIT.

Core Requirements	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3
SPED 2301	Introduction to Special Populations Credit Hours: 3
SPED 4300	Survey of Exceptionalities Credit Hours: 3
TCED 1301	Exploring Teaching as a Profession Credit Hours: 3

Teacher Education Program (TEP) Admission Requirements

- · Completion of 60 semester credit hours.
- Completion of prerequisite coursework (EDUC 4310, INST 3313, and SILC 4315.)
- · Completion of public speaking requirement.
- Completion of Basic Skills in Reading, Mathematics, and Writing.
- 2.750 GPA overall or in the last 60 semester credit hours.
- Completion of 12 semester credit hours in the subject-specific content area for target teacher certification.
- Application for admission to the Teacher Education Program (TEP).

Major Requirements (46 hours)

Courses	
In addition to the courses below students should also complete two History (HIST) electives.	
GEOG 1301	Modern Physical Geography Credit Hours: 3
GEOG 1303	World Regional Geography Credit Hours: 3
GEOG 4300	Geography of the United States and Canada Credit Hours: 3
GEOG 4301	Urban Geography Credit Hours: 3
GEOG 4302	Geography of Latin America Credit Hours: 3
GEOG 4303	Geography of Texas Credit Hours: 3
GEOG 4312	Human Geography Credit Hours: 3
GEOG 4314	Teaching Geography Credit Hours: 3
GEOG 4317	Introduction to Globalization Credit Hours: 3
GEOG 4321	Fundamentals of Geographic Information Systems Credit Hours: 3

HIST 2301	Texas History Credit Hours: 3
LLLS 4351	Reading in Content Subjects Credit Hours: 3
TCED 4102	Secondary (4-8 and 7-12) Content Teacher Seminar Credit Hours: 1
TCED 4306	Creating Positive Learning Environments in 7-12 Credit Hours: 3

Additional Information

GPA of 2.500 or higher required in GEOG and HIST coursework.

Pedagogy Requirements (15 hours)

Required Courses	
TCED 4361	Methods in Secondary Social Studies Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3
TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9

Additional Information

- Enrollment in the courses listed above requires admission to the TEP.
- 3.000 GPA required in pedagogy coursework.
- TCED 4378 Pre-Service Internship I must be taken in the long semester immediately preceding the final semester.
- TCED 4978 Pre-Service Internship II must be taken in the final semester

Teacher Certification Requirements

- Passing scores on the appropriate state assessments Texas Examinations of Educator Standards [TExES] are required for recommendation for teacher certification.
 - · 7-12 Social Studies TExES #232
 - EC-12 Pedagogy and Professional Responsibilities TEXES #160
- All courses outside the University Core must be "C-" or better unless otherwise stated.

Healthcare Administration B.S.

University Core Requirements (42 Hours)

The degree in Healthcare Administration leads to the bachelor of science. This degree provides students with the skill needed to obtain entry-level managment positions in the helthcare industry and prepares students for grade work in Healthcare Administration.

A minimum of 57 Upper-Level (33XX and 43XX) hours and a total of 120 hours are required for the baccalaureate degree. A minimum cumulative GPA of 2.0 or higher is required to graduate.

Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Additional Information Grades must be C- or better		
Mathematics (3 hours)		
MATH 1324	Mathematics for Business and Social Sciences. Credit Hours: 3	
Additional Information Grade must be C- or better		
Life and Physical Sciences (6 hours)		
Choose two course from the approved list		
ASTR 1303	Stars and Galaxies Credit Hours: 3	
ASTR 1304	Solar System Credit Hours: 3	
BIOL 1306	Biology for Science Majors I Credit Hours: 3	

WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3
PHIL 1301	Introduction to Philosophy Credit Hours: 3
LITR 2341	Literature and Experience Credit Hours: 3
HUMN 1301	Humanities Credit Hours: 3
Choose one course from the approve	ed list
Language, Philosophy and Cul	ture (3 hours)
PHYS 2326	University Physics II Credit Hours: 3
PHYS 2325	University Physics I Credit Hours: 3
PHYS 1302	College Physics II Credit Hours: 3
PHYS 1301	College Physics I Credit Hours: 3
GEOL 1304	Historical Geology Credit Hours: 3
GEOL 1303	Physical Geology Credit Hours: 3
ENSC 1302	Environmental Science II Credit Hours: 3
ENSC 1301	Environmental Science I Credit Hours: 3
CHEM 1312	General Chemistry II Credit Hours: 3
CHEM 1311	General Chemistry I
CHEM 1305	Introductory Chemistry I Credit Hours: 3
BIOL 2302	Anatomy & Physiology II Credit Hours: 3
BIOL 2301	Anatomy & Physiology I Credit Hours: 3
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3
BIOL 1308	Biology for Non-Science Majors I
BIOL 1307	Biology for Science Majors II Credit Hours: 3

Creative Arts (3 Hours)

Choose one course from the approved list

ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
American History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social and Behavioral Sciences (3 hours) Choose one course from the approved list		
ECON 2301	Principles of Macroeconomics Credit Hours: 3	
Additional Information		
Other courses may meet this requirement, however, ECON 2301 will still be required for all Business majors		
Component Area Option (6 hours)		
Two 1- hour Life and Physical Science Labs		
COMM 1315	Public Speaking Credit Hours: 3	
PSYC 1100	Learning Frameworks	

College Core Requirements (48 hours)

Credit Hours: 1

The following courses, or their approved equivalents, together with accounting and economics principles and business law, constitute the business core and are required of all business students. No more than 6 hours of grades in the range of D+, D or D- are permitted in Upper-Level (33XX and 43XX) Business Core Requirements.

Core Requirements for B	usiness Majors (40 nours)
ACCT 2301	Principles of Accounting I - Financial Credit Hours: 3
ACCT 2302	Principles of Accounting II- Managerial Credit Hours: 3
BAPA 1301	Business Principles Credit Hours: 3
ECON 2302	Principles of Microeconomics Credit Hours: 3
ISAM 1305	Business Computer Applications Credit Hours: 3
LEGL 2301	Legal Environment of Business Credit Hours: 3
MATH 1325	Calculus for Business and Social Sciences Credit Hours: 3
DSCI 3321	Statistics I Credit Hours: 3
DSCI 3331	Quantitative Methods for Management Credit Hours: 3
ECON 3311	Money and Banking Credit Hours: 3
FINC 3331	Business Finance Credit Hours: 3
ISAM 3303	Information Systems for Managemer Credit Hours: 3
MGMT 3301	Management Theory and Practice Credit Hours: 3
MGMT 4312	Strategic Management (Capstone) Credit Hours: 3
MKTG 3301	Principles of Marketing Credit Hours: 3
WRIT 3312	Written Communications in Business Credit Hours: 3

Major Requirements (21 hours)

All courses within the Major Requirements must be completed with a grade of C- or better. A minimum cumulative GPA of 2.0 or higher is required to graduate.

Major Requirements (21 hours)	
HADM 3311	Foundations of Healthcare Administration Leadership Credit Hours: 3
HADM 3351	Physician Group Practice Management Credit Hours: 3
HADM 4312	Healthcare Planning and Marketing Credit Hours: 3
HADM 4316	Medical Reimbursement Credit Hours: 3
HADM 4332	Legal Dimensions of Healthcare Administration Credit Hours: 3
HADM 4341	HR in Healthcare Administration Credit Hours: 3
HADM 4351	Financial Dimensions of Healthcare Administration II Credit Hours: 3

Elective Requirements (9 hours)

Elective Requirements (9 hours)

Choose one 3-hour HADM Upper-Level (33XX or 43XX)Choose any two Upper-Level (33XX or 43XX) courses offered by Colleges of Business, Human Sciences & Humanities, Science & Engineering or Education

Healthcare Services B.A.S.

University Core Requirements (42 Hours)

The Bachelor of Applied Science is a collaborative partnership with community colleges and employers in the UHCL service area. The program is designed for students with an associates of applied science degree in the allied health professions. Upon their enrollment at UHCL, the program allows incoming students to transfer a significant portion of their vocation/

technical credit hours that they earn through their associates program.

The HADM courses will bed offered at UHCL's Healthcare Administration Department, which is physically based in the Texas Medical Center. This curriculum prepares students in allied health profession to advance into an administrative position within their healthcare facilities. A minimum of 57 Upper–Level (33XX and 43XX) hours and a total of 120 hours are required for the baccalaureate degree. A minimum cumulative GPA of 2.0 or higher is required to graduate.

Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
Choose one course from the approved list		
MATH 1324	Mathematics for Business and Social Sciences. Credit Hours: 3	
MATH 1325	Calculus for Business and Social Sciences Credit Hours: 3	
Life and Physical Sciences (6 hours)		
Choose two course from the approved l	ist	
ASTR 1303	Stars and Galaxies Credit Hours: 3	
ASTR 1304	Solar System Credit Hours: 3	
BIOL 1306	Biology for Science Majors I Credit Hours: 3	
BIOL 1306 BIOL 1307		
-	Credit Hours: 3 Biology for Science Majors II	

BIOL 2301	Anatomy & Physiology I Credit Hours: 3	
BIOL 2302	Anatomy & Physiology II Credit Hours: 3	
CHEM 1305	Introductory Chemistry I Credit Hours: 3	
CHEM 1311	General Chemistry I	
CHEM 1312	General Chemistry II Credit Hours: 3	
ENSC 1301	Environmental Science I Credit Hours: 3	
ENSC 1302	Environmental Science II Credit Hours: 3	
GEOL 1303	Physical Geology Credit Hours: 3	
GEOL 1304	Historical Geology Credit Hours: 3	
PHYS 1301	College Physics I Credit Hours: 3	
PHYS 1302	College Physics II Credit Hours: 3	
PHYS 2325	University Physics I Credit Hours: 3	
PHYS 2326	University Physics II Credit Hours: 3	
Language, Philosophy and Culture (3 hours)		
Choose one course from the approved l	ist	
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
Choose one course from the approved list		
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	

ARTS 2379	Arts and the Child Credit Hours: 3	
American History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social and Behavioral Sciences (3 hours) Choose one course		
Social and Behavioral Sciences (3 hours) Choose one course	
Social and Behavioral Sciences (from the approved list	3 hours) Choose one course	
	3 hours) Choose one course Principles of Macroeconomics Credit Hours: 3	
from the approved list	Principles of Macroeconomics Credit Hours: 3	
from the approved list ECON 2301 Additional Information Other courses may meet this requirement	Principles of Macroeconomics Credit Hours: 3 nt, however, ECON 2301 will still be	
from the approved list ECON 2301 Additional Information Other courses may meet this requiremerequired for all Business majors	Principles of Macroeconomics Credit Hours: 3 nt, however, ECON 2301 will still be	
from the approved list ECON 2301 Additional Information Other courses may meet this requiremerequired for all Business majors Component Area Option (6 hours)	Principles of Macroeconomics Credit Hours: 3 nt, however, ECON 2301 will still be	

Major Requirements (27 hours)

The following courses, or their approved equivalents, together with accounting and economics principles and business law, constitute the business core and are required of all business students. All courses within the Major Requirements must be completed with a grade of C- or better. A minimum cumulative GPA of 2.0 or higher is required to graduate.

Credit Hours: 1

Major Requirements (27 hours)	
HADM 3311	Foundations of Healthcare Administration Leadership Credit Hours: 3

HADM 3322	Financial Dimensions of Healthcare Administration I Credit Hours: 3
HADM 3333	Healthcare Economics Credit Hours: 3
HADM 3351	Physician Group Practice Management Credit Hours: 3
HADM 4326	Hospital Operations Credit Hours: 3
HADM 4312	Healthcare Planning and Marketing Credit Hours: 3
HADM 4316	Medical Reimbursement Credit Hours: 3
HADM 4332	Legal Dimensions of Healthcare Administration Credit Hours: 3
HADM 4341	HR in Healthcare Administration Credit Hours: 3
HADM 4351	Financial Dimensions of Healthcare Administration II Credit Hours: 3

Elective Requirements (18 hours)

Prescribed Elective Requirements (9 hours)	
PSYC 4370	Nonexperimental Methods and Statistics Credit Hours: 3
MGMT 4354	Organizational Behavior Theory and Application Credit Hours: 3
MKTG 3301	Principles of Marketing Credit Hours: 3

General Electives (9 hours)

Any three Upper-Level (33XX or 43XX) courses offered by Colleges of Business, Human Sciences and Humanities, Science & Engineering, or Education

History B.A.

The undergraduate major in History leads to the Bachelor of Arts (B.A.) degree. The major is broadly conceived to include all aspects of human development and heritage: political, social, economic, and cultural. The undergraduate major in History has sufficient General Elective hours to enable completion of a minor.

Students who plan to teach history and/or government at the secondary school level should select the History major with teaching certification. For additional information, contact the HSH Office of Advising.

There are no specific prerequisites for admission to this major other than a strong academic record and a lively interest in how ideas, institutions, societies, and individuals change and have changed over time.

University Core Requirements (42 Hours)

Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
Choose ONE of the following courses.		
MATH 1314	College Algebra Credit Hours: 3	
MATH 1332	Contemporary Mathematics Credit Hours: 3	
Life and Physical Sciences (6 hours)		
Choose TWO of the following courses.		
ASTR 1303	Stars and Galaxies Credit Hours: 3	
ASTR 1304	Solar System Credit Hours: 3	
BIOL 1306	Biology for Science Majors I Credit Hours: 3	
BIOL 1307	Biology for Science Majors II Credit Hours: 3	

BIOL 1308	Biology for Non-Science Majors I	
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3	
BIOL 2301	Anatomy & Physiology I Credit Hours: 3	
BIOL 2302	Anatomy & Physiology II Credit Hours: 3	
CHEM 1305	Introductory Chemistry I Credit Hours: 3	
CHEM 1311	General Chemistry I	
CHEM 1312	General Chemistry II Credit Hours: 3	
ENSC 1301	Environmental Science I Credit Hours: 3	
ENSC 1302	Environmental Science II Credit Hours: 3	
GEOL 1303	Physical Geology Credit Hours: 3	
GEOL 1304	Historical Geology Credit Hours: 3	
PHYS 1301	College Physics I Credit Hours: 3	
PHYS 1302	College Physics II Credit Hours: 3	
PHYS 2325	University Physics I Credit Hours: 3	
PHYS 2326	University Physics II Credit Hours: 3	
Language, Philosophy and Culture (3 hours)		
Choose ONE of the following courses.		
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
Choose ONE of the following courses.		
ARTS 1303	World Art Survey I Credit Hours: 3	

ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
U.S. History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social Behavioral Sciences (3 hours)		
GEOG 1303	World Regional Geography Credit Hours: 3	
Public Speaking (3 hours)		
COMM 1315	Public Speaking Credit Hours: 3	
Component Area Options (3 hours)		
Two 1- hour Life and Physical Science Labs - required co-requisites for the chosen science courses.		
PSYC 1100	Learning Frameworks Credit Hours: 1	

College Core Requirements (3 hours)

48 hours of upper–level credit must be "C" or better.

Core Requirement (3 hours)	
Choose ONE of the following courses.	
WRIT 3305	Writing for the Humanities Credit Hours: 3
WRIT 3307	Advanced Writing Credit Hours: 3

Major Requirements (42 hours)

Humanities Requirement

Choose ONE of the following courses.	
HUMN 3374	Critical Inquiry Credit Hours: 3
HUMN 3375	Ideas in Transition Credit Hours: 3
PHIL 3331	Ethics Credit Hours: 3
PHIL 4314	The Great Philosophers I Credit Hours: 3
PHIL 4315	The Great Philosophers II Credit Hours: 3
Social Science Requirement	
Choose ONE of the following courses.	
ANTH 3311	Contemporary Cultural Anthropology

ANTH 3311	Contemporary Cultural Anthropology Credit Hours: 3
ANTH 3358	Topics in Middle Eastern Societies Credit Hours: 3
ANTH 4333	Peoples of Mexico and Central America Credit Hours: 3
ANTH 4334	Native Americans Credit Hours: 3
ANTH 4352	World Prehistory and Archaeology Credit Hours: 3

History Courses	
HIST 2321	World Civilization I Credit Hours: 3
HIST 2322	World Civilization II Credit Hours: 3
HIST 3316	Historical Studies Credit Hours: 3

Additional History Courses

Choose TWO European History (3300/4300 level) courses.Choose THREE American History (3300/4300 level) courses.Choose ONE Latin American History (3300/4300 level) course.Choose ONE Middle Eastern (3300/4300 level) course.Choose TWO History electives (3300/4300 level) courses.

Electives (33 hours)

12 hours General Electives - can be lower (1300/2300) level21 hours must be upper-level - any 3300/4300 level course at UHCL

History B.A. with History 7-12 Certification

Note: This degree requires a minimum of 127 credit hours.

University Core Requirements (42 Hours)

Communication (6 hours)	
WRIT 1301	Composition I Credit Hours: 3
WRIT 1302	Composition II Credit Hours: 3
Mathematics (3 hours)	
Choose ONE of the following courses	5.
MATH 1314	College Algebra Credit Hours: 3
MATH 1332	Contemporary Mathematics Credit Hours: 3
Life and Physical Sciences (6 hours)	
Choose TWO of the following course	S.
ASTR 1303	Stars and Galaxies Credit Hours: 3
ASTR 1304	Solar System Credit Hours: 3
BIOL 1306	Biology for Science Majors I Credit Hours: 3
BIOL 1307	Biology for Science Majors II Credit Hours: 3
BIOL 1308	Biology for Non-Science Majors I
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3
BIOL 2301	Anatomy & Physiology I Credit Hours: 3
BIOL 2302	Anatomy & Physiology II Credit Hours: 3
CHEM 1305	Introductory Chemistry I Credit Hours: 3
CHEM 1311	General Chemistry I

CHEM 1312	General Chemistry II Credit Hours: 3	
ENSC 1301	Environmental Science I Credit Hours: 3	
ENSC 1302	Environmental Science II Credit Hours: 3	
GEOL 1303	Physical Geology Credit Hours: 3	
GEOL 1304	Historical Geology Credit Hours: 3	
PHYS 1301	College Physics I Credit Hours: 3	
PHYS 1302	College Physics II Credit Hours: 3	
PHYS 2325	University Physics I Credit Hours: 3	
PHYS 2326	University Physics II Credit Hours: 3	
Language, Philosophy and Culture (3 hours)		
Choose ONE of the following courses.		
HUMN 1301	Humanities	
	Credit Hours: 3	
LITR 2341	Credit Hours: 3 Literature and Experience Credit Hours: 3	
LITR 2341 PHIL 1301	Literature and Experience	
	Literature and Experience Credit Hours: 3 Introduction to Philosophy	
PHIL 1301	Literature and Experience Credit Hours: 3 Introduction to Philosophy Credit Hours: 3 Gender Matters: Introduction to Women's and Gender Studies	
PHIL 1301 WGST 1301	Literature and Experience Credit Hours: 3 Introduction to Philosophy Credit Hours: 3 Gender Matters: Introduction to Women's and Gender Studies	
PHIL 1301 WGST 1301 Creative Arts (3 Hours)	Literature and Experience Credit Hours: 3 Introduction to Philosophy Credit Hours: 3 Gender Matters: Introduction to Women's and Gender Studies	
PHIL 1301 WGST 1301 Creative Arts (3 Hours) Choose ONE of the following courses.	Literature and Experience Credit Hours: 3 Introduction to Philosophy Credit Hours: 3 Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3 World Art Survey I	
PHIL 1301 WGST 1301 Creative Arts (3 Hours) Choose ONE of the following courses. ARTS 1303	Literature and Experience Credit Hours: 3 Introduction to Philosophy Credit Hours: 3 Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3 World Art Survey I Credit Hours: 3 World Art Survey II	
PHIL 1301 WGST 1301 Creative Arts (3 Hours) Choose ONE of the following courses. ARTS 1303 ARTS 1304	Literature and Experience Credit Hours: 3 Introduction to Philosophy Credit Hours: 3 Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3 World Art Survey I Credit Hours: 3 World Art Survey II Credit Hours: 3 Arts and the Child	
PHIL 1301 WGST 1301 Creative Arts (3 Hours) Choose ONE of the following courses. ARTS 1303 ARTS 1304 ARTS 2379	Literature and Experience Credit Hours: 3 Introduction to Philosophy Credit Hours: 3 Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3 World Art Survey I Credit Hours: 3 World Art Survey II Credit Hours: 3 Arts and the Child	

Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social Behavioral Sciences (3 hours)		
GEOG 1303	World Regional Geography Credit Hours: 3	
Public Speaking (3 hours)		
COMM 1315	Public Speaking Credit Hours: 3	
Component Area Options (3 hours)		
Two 1- hour Life and Physical Science Labs - required co-requisites for the chosen science courses.		
PSYC 1100	Learning Frameworks Credit Hours: 1	

College of Human Sciences and Humanities Core Requirements (6 hours)

48 hours of upper-level credit must be "C" or better.

Humanities Requirement (3 hours)	
Choose ONE of the following courses.	
HUMN 3374	Critical Inquiry Credit Hours: 3
HUMN 3375	Ideas in Transition Credit Hours: 3
PHIL 3331	Ethics Credit Hours: 3
PHIL 4314	The Great Philosophers I Credit Hours: 3
PHIL 4315	The Great Philosophers II Credit Hours: 3
Core Requirement (3 hours)	
Choose ONE of the following courses.	
WRIT 3304	Writing for Education Credit Hours: 3

WRIT 3307	Advanced Writing Credit Hours: 3
Additional Information	
Grade of "B-" or better is required	

College of Education Core Requirements (18 hours)

Core Requirement	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3
SPED 2301	Introduction to Special Populations Credit Hours: 3
SPED 4300	Survey of Exceptionalities Credit Hours: 3
TCED 1301	Exploring Teaching as a Profession Credit Hours: 3

Teacher Education Program (TEP) Admission Requirements

- · Completion of 60 semester credit hours.
- Completion of prerequisite coursework (EDUC 4310, INST 3313, and SILC 4315.)
- · Completion of public speaking requirement.
- Completion of Basic Skills in Reading, Mathematics, and Writing.
- 2.750 GPA overall or in the last 60 semester credit hours.
- Completion of 12 semester credit hours in the subject-specific content area for target teacher certification.
- Application for admission to the Teacher Education Program (TEP).

Major Requirements (46 hours)

History Courses

HIST 2301	Texas History Credit Hours: 3
HIST 2321	World Civilization I Credit Hours: 3
HIST 2322	World Civilization II Credit Hours: 3
HIST 3316	Historical Studies Credit Hours: 3

Additional History Courses

Choose TWO European History (3300/4300 level) courses.Choose THREE American History (3300/4300 level) courses.Choose ONE Latin American History (3300/4300 level) course.Choose ONE Middle Eastern History (3300/4300 level) course.Choose One History elective (3300/4300 level) course.

Additional Major Courses	
ECON 2301	Principles of Macroeconomics Credit Hours: 3
LLLS 4351	Reading in Content Subjects Credit Hours: 3
TCED 4102	Secondary (4-8 and 7-12) Content Teacher Seminar Credit Hours: 1
TCED 4306	Creating Positive Learning Environments in 7-12 Credit Hours: 3

Additional Information

· GPA of 2.500 or higher required in HIST and LLLS coursework.

Pedagogy Requirements (15 hours)

Required Courses	
TCED 4361	Methods in Secondary Social Studies Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3
TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9

Additional Information

- Enrollment in the courses listed above requires admission to the TEP.
- 3.000 GPA required in pedagogy coursework.
- TCED 4378 Pre-Service Internship I must be taken in the long semester immediately preceding the final semester.
- TCED 4978 Pre-Service Internship II must be taken in the final semester.

Teacher Certification Requirements

- Passing scores on the appropriate state assessments (Texas Examinations of Educator Standards [TExES] are required for recommendation for teacher certification.
 - 7-12 History TEXES #233
 - EC-12 Pedagogy and Professional Responsibilities TEXES #160
- All courses outside the University Core must be "C-" or better unless otherwise stated.

History B.A. with Social Studies 7-12 Certification

Note: This degree requires a minimum of 127 credit hours.

University Core Requirements (42 Hours)

Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
Choose ONE of the following courses.		
MATH 1314	College Algebra Credit Hours: 3	
MATH 1332	Contemporary Mathematics Credit Hours: 3	
Life and Physical Sciences (6 hours)		
Choose TWO of the following courses.		
ASTR 1303	Stars and Galaxies Credit Hours: 3	
ASTR 1304	Solar System Credit Hours: 3	

BIOL 1306	Biology for Science Majors I Credit Hours: 3
BIOL 1307	Biology for Science Majors II Credit Hours: 3
BIOL 1308	Biology for Non-Science Majors I
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3
BIOL 2301	Anatomy & Physiology I Credit Hours: 3
BIOL 2302	Anatomy & Physiology II Credit Hours: 3
CHEM 1305	Introductory Chemistry I Credit Hours: 3
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II Credit Hours: 3
ENSC 1301	Environmental Science I Credit Hours: 3
ENSC 1302	Environmental Science II Credit Hours: 3
GEOL 1303	Physical Geology Credit Hours: 3
GEOL 1304	Historical Geology Credit Hours: 3
PHYS 1301	College Physics I Credit Hours: 3
PHYS 1302	College Physics II Credit Hours: 3
PHYS 2325	University Physics I Credit Hours: 3
PHYS 2326	University Physics II Credit Hours: 3
Language, Philosophy and Cultur	re (3 hours)
Choose ONE of the following courses.	
HUMN 1301	Humanities Credit Hours: 3
LITR 2341	Literature and Experience Credit Hours: 3
PHIL 1301	Introduction to Philosophy Credit Hours: 3
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3

Creative Arts (3 Hours)		
Choose ONE of the following courses.		
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
U.S. History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social Behavioral Sciences (3 ho	urs)	
GEOG 1303	World Regional Geography Credit Hours: 3	
Public Speaking (3 hours)		
COMM 1315	Public Speaking Credit Hours: 3	
Component Area Options (3 hours)		
Two 1- hour Life and Physical Science Labs - required co-requisites for the chosen science courses.		
PSYC 1100	Learning Frameworks Credit Hours: 1	

College of Human Sciences and Humanities Core Requirements (6 hours)

48 hours of upper–level credit must be "C" or better.

Humanities Requirement (3 hours)
Choose ONE of the following courses.

HUMN 3374	Critical Inquiry Credit Hours: 3	
HUMN 3375	Ideas in Transition Credit Hours: 3	
PHIL 3331	Ethics Credit Hours: 3	
PHIL 4314	The Great Philosophers I Credit Hours: 3	
PHIL 4315	The Great Philosophers II Credit Hours: 3	
Core Requirement (3 hours)		
Choose ONE of the following courses.		
WRIT 3304	Writing for Education Credit Hours: 3	
WRIT 3307	Advanced Writing Credit Hours: 3	
Additional Information		

College of Education Core Requirements (18 hours)

Grade of "B-" or better is required.

Core Requirements	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3
SPED 2301	Introduction to Special Populations Credit Hours: 3
SPED 4300	Survey of Exceptionalities Credit Hours: 3
TCED 1301	Exploring Teaching as a Profession Credit Hours: 3

Teacher Education Program (TEP) Admission Requirements

- · Completion of 60 semester credit hours.
- Completion of prerequisite coursework (EDUC 4310, INST 3313, and SILC 4315.)
- $\boldsymbol{\cdot}$ Completion of public speaking requirement.

- Completion of Basic Skills in Reading, Mathematics, and Writing.
- 2.750 GPA overall or in the last 60 semester credit hours.
- Completion of 12 semester credit hours in the subject-specific content area for target teacher certification.
- Application for admission to the Teacher Education Program (TEP).

Major Requirements (46 hours)

History Courses	
HIST 2301	Texas History Credit Hours: 3
HIST 2321	World Civilization I Credit Hours: 3
HIST 2322	World Civilization II Credit Hours: 3
HIST 3301	Ancient World Credit Hours: 3
HIST 3316	Historical Studies Credit Hours: 3

Additional History Courses

Choose TWO European History (3300/4300 level) courses.Choose THREE American History (3300/4300 level) courses.Choose ONE Latin American History (3300/4300 level) course.Choose ONE Middle Eastern History (3300/4300 level) course.

Additional Major Courses	
ECON 2301	Principles of Macroeconomics Credit Hours: 3
LLLS 4351	Reading in Content Subjects Credit Hours: 3
TCED 4102	Secondary (4-8 and 7-12) Content Teacher Seminar Credit Hours: 1
TCED 4306	Creating Positive Learning Environments in 7-12 Credit Hours: 3

Additional Information

GPA of 2.500 or higher required in HIST and LLLS coursework.

Pedagogy Requirements (15 hours)

Required Courses	
TCED 4361	Methods in Secondary Social Studies Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3
TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9

Additional Information

- Enrollment in the courses listed above requires admission to the TEP.
- · 3.000 GPA required in pedagogy coursework.
- TCED 4378 Pre-Service Internship I must be taken in the long semester immediately preceding the final semester.
- TCED 4978 Pre-Service Internship II must be taken in the final semester.

Teacher Certification Requirements

- Passing scores on the appropriate state assessments (Texas Examinations of Educator Standards [TExES] are required for recommendation for teacher certification.
 - · 7-12 Social Studies TExES #232
 - EC-12 Pedagogy and Professional Responsibilities TEXES #160
- All courses outside the University Core must be "C-" or better unless otherwise stated.

Humanities B.A.

The B.A. in Humanities provides students with a strong pre-professional education in the liberal arts. The major offers students flexibility in preparation for entrance into law school or other graduate studies as well as careers in education, public service, social media and public relations, advertising, technical writing, museum and library work, and many other areas.

Humanities students develop skills in analytical thinking, critical analysis, interpretive ability, and written expression. Additionally, our cross-disciplinary and cross-cultural approach uniquely prepares graduates to engage in today's global environment.

Concentrations include art history, film studies, global studies, healthcare ethics, history, literature, philosophy, pre-law, and religious studies. Through coursework in the concentrations, students gain a grounding in the fundamental theories, concepts, practices, and methods employed in each of these fields of study.

For additional information about the degree, contact the HSH Office of Advising.

University Core Requirements (42 Hours)

Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
Choose ONE of the following courses.		
MATH 1314	College Algebra Credit Hours: 3	
MATH 1332	Contemporary Mathematics Credit Hours: 3	
Life and Physical Sciences (6 hours)		
Choose TWO of the following courses.		
ASTR 1303	Stars and Galaxies Credit Hours: 3	
ASTR 1304	Solar System Credit Hours: 3	
BIOL 1306	Biology for Science Majors I Credit Hours: 3	

BIOL 1307	Biology for Science Majors II Credit Hours: 3	
BIOL 1308	Biology for Non-Science Majors I	
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3	
BIOL 2301	Anatomy & Physiology I Credit Hours: 3	
BIOL 2302	Anatomy & Physiology II Credit Hours: 3	
CHEM 1305	Introductory Chemistry I Credit Hours: 3	
CHEM 1311	General Chemistry I	
CHEM 1312	General Chemistry II Credit Hours: 3	
ENSC 1301	Environmental Science I Credit Hours: 3	
ENSC 1302	Environmental Science II Credit Hours: 3	
GEOL 1303	Physical Geology Credit Hours: 3	
GEOL 1304	Historical Geology Credit Hours: 3	
PHYS 1301	College Physics I Credit Hours: 3	
PHYS 1302	College Physics II Credit Hours: 3	
PHYS 2325	University Physics I Credit Hours: 3	
PHYS 2326	University Physics II Credit Hours: 3	
Language, Philosophy and Cultur	re (3 hours)	
HUMN 1301	Humanities Credit Hours: 3	
Creative Arts (3 Hours)		
Choose ONE of the following courses.		
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
U.S. History (6 hours)		

HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social Behavioral Sciences (3 hours)		
Choose ONE of the following courses.		
ANTH 2346	General Anthropology Credit Hours: 3	
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3	
ECON 2301	Principles of Macroeconomics Credit Hours: 3	
ECON 2302	Principles of Microeconomics Credit Hours: 3	
GEOG 1303	World Regional Geography Credit Hours: 3	
PSYC 2301	Introduction to Psychology Credit Hours: 3	
SOCI 1301	Introduction to Sociology Credit Hours: 3	
Public Speaking (3 hours)		
COMM 1315	Public Speaking Credit Hours: 3	
Component Area Options (3 hours)		
Two 1- hour Life and Physical Science Labs - required co-requisites for the chosen science courses.		
PSYC 1100	Learning Frameworks Credit Hours: 1	

College Core Requirements (3 hours)

48 hours of upper-level credit must be a "C" or better.

Core Requirement
Choose ONE of the following courses.

WRIT 3305	Writing for the Humanities Credit Hours: 3
WRIT 3307	Advanced Writing Credit Hours: 3

Major Requirements (66 hours)

Core must be "C-" or better unless othewise stated.

Choose ONE of the following courses.		
Choose ONE course outside the program that relates to the concentration areas (3300/4300 level).		
HUMN 3374	Critical Inquiry Credit Hours: 3	
PHIL 3321	Logic Credit Hours: 3	
PHIL 4314	The Great Philosophers I Credit Hours: 3	
PHIL 4315	The Great Philosophers II Credit Hours: 3	
Philosophy Course		
Instead of PHIL 1301 students may complete any 3300/4300 level PHIL course not counted for credit toward the B.A. in Humanities.		
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
Arts courses		
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
Humanities courses		
HUMN 3375	Ideas in Transition Credit Hours: 3	
HUMN 4375	Senior Seminar Credit Hours: 3	
Electives courses (9 hours)		
9 hours of electives can be any 1300/2300/3300/4300 level courses.		

Choose THREE Concentration Areas (15 hours each).

Students choose three of the following nine 15–hour concentrations. A concentration consists of five courses in the given field of study for a total of fifteen credit hours. Concentrations (15 hours each)

Concentration 1: Literature

Choose FIVE literature classes (LITR rubric; substitutions by approval) or HUMN 3375 if the titles are any of the following: Alienation, Values, Love, Freedom, or Power.

Concentration 2: History

Choose FIVE history classes (HIST rubric; substitutions by approval) or HUMN 3375 if the titles are any of the following: Exile, Propaganda and Persuasion, Technologies of Communication, or Freedom.

Concentration 3: Art History

Choose FIVE art history classes (ARTS rubric art history courses; substitutions by approval) or HUMN 3375 if the titles are any of the following: Exile, Propaganda and Persuasion, or Technologies of Communication.

Concentration 4: Philosophy

Choose FIVE philosophy classes (PHIL rubric; substitutions by approval). Suggested classes: (HUMN 3375 may be taken when the topic is one of the following: Mind, Brain, and Meaning; Alienation; or Values

HUMN 3375	Ideas in Transition Credit Hours: 3
PHIL 3321	Logic Credit Hours: 3
PHIL 3331	Ethics Credit Hours: 3
PHIL 4314	The Great Philosophers I Credit Hours: 3
PHIL 4315	The Great Philosophers II Credit Hours: 3

Concentration 5: Film Studies

Choose FIVE of the following classes. HUMN 4391 selected topics must be An Introduction to Indian Cinema. HUMN 3375 must be Values, Love, Freedom, or Power.

COMM 1307	Introduction to Mass Communication
	Credit Hours: 3

201717		
COMM 4301	Global Issues in Film Credit Hours: 3	
COMM 4354	Video Production I Credit Hours: 3	
COMM 4355	Video Production 2 Credit Hours: 3	
COMM 4655	Media Production Credit Hours: 6	
HIST 3345	Reel America I Credit Hours: 3	
HIST 3347	Reel America II Credit Hours: 3	
HIST 4303	Reel Europe Credit Hours: 3	
HIST 4305	Nazi Cinema and Third Reich Credit Hours: 3	
HIST 4323	The Vietnam War in Film Credit Hours: 3	
HUMN 3375	Ideas in Transition Credit Hours: 3	
HUMN 4326	Studies in Film Credit Hours: 3	
HUMN 4391	Selected Topics in Humanities Credit Hours: 3	
LITR 4360	Film as Literature Credit Hours: 3	
Concentration 6: Pre-Law		
Choose FIVE of the following classes. Topic for HUMN 3375 must be Freedom		
ANTH 3352	D.11411/E	
مرزر ۱۰۰۰	Political/Economic Anthropology Credit Hours: 3	
ANTH 4341		
	Credit Hours: 3 Gender and Sexuality in Global Perspectives	
ANTH 4341	Credit Hours: 3 Gender and Sexuality in Global Perspectives Credit Hours: 3 Human Rights and Social Justice	
ANTH 4341 ANTH 4342	Credit Hours: 3 Gender and Sexuality in Global Perspectives Credit Hours: 3 Human Rights and Social Justice Credit Hours: 3 Criminology	
ANTH 4341 ANTH 4342 CRIM 3312	Credit Hours: 3 Gender and Sexuality in Global Perspectives Credit Hours: 3 Human Rights and Social Justice Credit Hours: 3 Criminology Credit Hours: 3 Deviance	

HIST 3335	U.S. in the Roaring 1920s Credit Hours: 3
HIST 3337	U.S. during the Cold War Credit Hours: 3
HIST 4319	U.S. Labor History Credit Hours: 3
HUMN 3375	Ideas in Transition Credit Hours: 3
PHIL 3321	Logic Credit Hours: 3
PHIL 3331	Ethics Credit Hours: 3
PHIL 4314	The Great Philosophers I Credit Hours: 3
PHIL 4315	The Great Philosophers II Credit Hours: 3
POLS 3332	State and Local Government Credit Hours: 3
POLS 4313	Civil Liberties in America Credit Hours: 3
POLS 4315	Judicial Process Credit Hours: 3
POLS 4351	Public Administration Credit Hours: 3
POLS 4355	Political Philosophy Credit Hours: 3
POLS 4374	Pre-Law Seminar and LSAT Preparation Credit Hours: 3
SOCI 3351	Political Sociology Credit Hours: 3
SOCI 3352	Urban Sociology Credit Hours: 3
SOCI 4312	Social Structure: Class, Power, and Status Credit Hours: 3
SOCI 4322	Theories of Society Credit Hours: 3
SOCI 4328	Social Conflict and Mediation Credit Hours: 3
SOCI 4331	Prison and Society Credit Hours: 3
SOCI 4332	Sociology of Law Credit Hours: 3
SOCI 4333	Crisis Intervention Credit Hours: 3

SOCI 4342	Human Rights and Social Justice Credit Hours: 3
SOCI 4355	Minorities in America Credit Hours: 3
WGST 4316	Women and the Law Credit Hours: 3

Additional Information

The topic for HUMN 3375 must be Freedom.

Concentration 7: Global Studies

Choose FIVE of the following classes.HUMN 4391 must focus on Global Theories, Indian Cinema, or World Geography.HUMN 3375 the topic must be Exile, Propaganda and Persuasion, Technologies of Communication, Values, Love, Freedom, or Power.

ANTH 3355	Topics in Asian Studies Credit Hours: 3
ANTH 3358	Topics in Middle Eastern Societies Credit Hours: 3
ANTH 4333	Peoples of Mexico and Central America Credit Hours: 3
ARTS 4370	Gender and Identity in the Visual Arts Credit Hours: 3
ARTS 4372	Studies in Western European Art Credit Hours: 3
ARTS 4376	Studies in Non-Western Art Credit Hours: 3
GEOG 4317	Introduction to Globalization Credit Hours: 3
HIST 3311	Revolutionary Europe Credit Hours: 3
HIST 3313	Modern Europe Credit Hours: 3
HIST 3321	Modern Latin America Credit Hours: 3
HIST 3323	History of Mexico Credit Hours: 3
HIST 3340	Women in European History Credit Hours: 3
HIST 4303	Reel Europe Credit Hours: 3
HIST 4307	Holocaust: History, Literature, and Film Credit Hours: 3
HIST 4309	Studies in Latin American History Credit Hours: 3

HIST 4325	Studies in Middle Eastern History Credit Hours: 3
HUMN 3375	Ideas in Transition Credit Hours: 3
HUMN 4391	Selected Topics in Humanities Credit Hours: 3
LITR 4340	American Immigrant Literature Credit Hours: 3
LITR 4344	The Modern Novel Credit Hours: 3
SOCI 3316	Global Sociology Credit Hours: 3
SOCI 3352	Urban Sociology Credit Hours: 3
WGST 4312	Women of Color Credit Hours: 3

Concentration 8: Religious Studies

Choose FIVE of the following classes. HUMN 3375 topic must be Mind, Brain, and Meaning; Alienation; or Power.

and Meaning; Alienation; or Power.	
ANTH 3358	Topics in Middle Eastern Societies Credit Hours: 3
ARTS 4376	Studies in Non-Western Art Credit Hours: 3
HIST 3309	Renaissance and Reformation Credit Hours: 3
HIST 3313	Modern Europe Credit Hours: 3
HIST 4307	Holocaust: History, Literature, and Film Credit Hours: 3
HUMN 3375	Ideas in Transition Credit Hours: 3
LITR 3334	Mythology Credit Hours: 3
LITR 4312	Chaucer Credit Hours: 3
LITR 4346	Medieval Literature Credit Hours: 3
LITR 4366	Literature and Religion Credit Hours: 3
PHIL 3331	Ethics Credit Hours: 3
PHIL 4314	The Great Philosophers I Credit Hours: 3

PHIL 4315	The Great Philosophers II Credit Hours: 3
PHIL 4322	Philosophy of Religion Credit Hours: 3
SOCI 4323	Religion in Society Credit Hours: 3

Concentration 9: Healthcare Ethics Choose FIVE of the following classes. ANTH 3361 Anthropology of Food Credit Hours: 3 ANTH 3362 Medicine, Bodies, and Culture Credit Hours: 3 Human Rights and Social Justice ANTH 4342 Credit Hours: 3 PHIL 3331 Ethics Credit Hours: 3 PSYC 3334 Drugs and Behavior Credit Hours: 3 Abnormal Psychology PSYC 4351 Credit Hours: 3 PSYC 4356 The Aging Experience Credit Hours: 3 PSYC 4375 Personal Stress Management Credit Hours: 3 SOCI 4303 Human Services Credit Hours: 3 SOCI 4304 Professional Issues in Human Credit Hours: 3 SWRK 3314 Diversity and Human Behavior in the Social Environment Credit Hours: 3

Information Technology B.A.S.

The plan in Information Technology (IT) leads to the bachelor of applied science (B.A.S.) degree. This plan prepares students in a variety of IT careers such as systems administrator, network administrator, computer specialist, database manager, database administrator, computer

technician, computer security manager, computer systems manager, web designer and developer, etc. within commercial, industrial, educational and governmental institutions.

The curriculum allows students to develop a broad background in information technology with a balance of theory and hands-on practical experience.

Degree Requirements

This degree requires 120 hours and includes 42 hours of University Core. University Core is listed separately in the catalog. Students must transfer in 15 hours of technical electives or an Associate in Applied Science degree (AAS) in IT or a related field in order to be qualified for admittance into the BAS program.

University Core Requirements (42 Hours)

Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
MATH 1314	College Algebra Credit Hours: 3	
Life and Physical Sciences (6 hours)		
ASTR 1303	Stars and Galaxies Credit Hours: 3	
ASTR 1304	Solar System Credit Hours: 3	
BIOL 1306	Biology for Science Majors I Credit Hours: 3	
BIOL 1307	Biology for Science Majors II Credit Hours: 3	
BIOL 1308	Biology for Non-Science Majors I	
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3	

Anatomy & Physiology I

BIOL 2301

BIOL 2301	Anatomy & Physiology I Credit Hours: 3	
BIOL 2302	Anatomy & Physiology II Credit Hours: 3	
CHEM 1305	Introductory Chemistry I Credit Hours: 3	
CHEM 1311	General Chemistry I	
CHEM 1312	General Chemistry II Credit Hours: 3	
ENSC 1301	Environmental Science I Credit Hours: 3	
ENSC 1302	Environmental Science II Credit Hours: 3	
GEOL 1303	Physical Geology Credit Hours: 3	
GEOL 1304	Historical Geology Credit Hours: 3	
PHYS 1301	College Physics I Credit Hours: 3	
PHYS 1302	College Physics II Credit Hours: 3	
PHYS 2325	University Physics I Credit Hours: 3	
PHYS 2326	University Physics II Credit Hours: 3	
Language, Philosophy and Cultur	e (3 hours)	
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
ARTS 1303	World Art Survey I	
	Credit Hours: 3	
ARTS 1304	Credit Hours: 3 World Art Survey II Credit Hours: 3	
ARTS 1304 ARTS 2379	World Art Survey II	
-	World Art Survey II Credit Hours: 3 Arts and the Child	

United States History I Credit Hours: 3	
United States History II Credit Hours: 3	
Government/ Political Science (6 hours)	
Federal Government Credit Hours: 3	
Texas Government Credit Hours: 3	
Social and Behavioral Sciences (3 hours)	
General Anthropology Credit Hours: 3	
Introduction to Criminal Justice Credit Hours: 3	
Principles of Macroeconomics Credit Hours: 3	
Principles of Microeconomics Credit Hours: 3	
World Regional Geography Credit Hours: 3	
Introduction to Psychology Credit Hours: 3	
Introduction to Sociology Credit Hours: 3	
rs)	
Labs	
Public Speaking Credit Hours: 3	
Learning Frameworks	

Major Requirements (45 Hours)

Students must meet these core requirements or approved upper–level substitutes.

Major Requirements	
ITEC 3312	Scripting II Credit Hours: 3
ITEC 3335	Database Development Credit Hours: 3

ITEC 3351	Web Fundamentals Credit Hours: 3
ITEC 3365	Network Fundamentals
ITEC 3381	Forensics Fundamentals Credit Hours: 3
ITEC 4313	Emerging Information Technology Credit Hours: 3
ITEC 4342	Information Technology Project Management Credit Hours: 3
ITEC 4388	Senior Project in Information Technology Credit Hours: 3
CSCI 3303	Fundamentals of Programming Credit Hours: 3
CINF 3321	Information Systems Theory and Practice Credit Hours: 3
MGMT 3301	Management Theory and Practice Credit Hours: 3
MGMT 3313	Organizational Communication Credit Hours: 3
WRIT 3315	Advanced Technical Writing Credit Hours: 3
STAT 3308	Computational Statistics Credit Hours: 3
4 1 1 4 4 4	

Additional Information

At most, only 6 credits may be transferred toward the Major Requirements and IT Specialization. Lower-level credit given for any of the above courses may require students to take additional approved technical electives to satisfy the plan requirements.

Additinal Major Requirements Courses

ITEC 4379 Internship in Information Technology or approved elective

Elective Requirements (18 hours)

Electives

9 hours of specialization electives. Approved 9 hours of major electives (upper or lower level technical classes, approved by faculty adviser.

Additional Information

The specific courses beyond the Major Requirements to be included in the Candidate Plan of Study

(CPS) will be selected by students with the approval of the faculty adviser.

Specialization Requirements (9 Hours)

Students must select one of the following three specializations in Information Technology (IT).

	ON CONTRACTOR OF THE CONTRACTO
Students interested in Comcourses:	puter Forensics must take the following three
ITEC 4381	Computer Forensics
ITEC 4382	Registry & Internet Forensics
CRIM 4330	Criminal Investigation Credit Hours: 3
Web Design and Development Specialization	
Students interested in Web three courses:	Design and Development must take the following
	Design and Development must take the following Web Design Credit Hours: 3
three courses:	Web Design

Information Technology Management and Administration Specialization

Students interested in Information Technology Management and Administration must take:

CSCI 4364	Computer Systems Administration
	Credit Hours: 3

Additional Information Technology Management and Administration Specialization Requirements

Students must take two of the following three classes:

ITEC 4335	Database Administration Credit Hours: 3
ITEC 4365	Network Administration Credit Hours: 3
ITEC 4366	Computer Security and Disaster Recovery Credit Hours: 3

Additional Information

Courses noted on the CPS as Major Requirements, Major Electives and IT Specialization must be

completed with a grade of "C-" or better.

Information Technology B.S.

The B.S. in Information Technology delivers the tools that the students need to meet the rising demand in Networking, Systems Administration, Digital Forensics, Web Development, and Cybersecurity across public, private, non-profit, and government entities worldwide. The curriculum allows students to meet the increasing demand of our digital world with leading edge tools and hands-on activities.

Degree Requirements

This degree requires 120 hours and includes 42 hours of University Core. However, some of the Major Requirements courses listed below also satisfy University Core. If other courses are taken to satisfy University Core, the Major Requirements below are still necessary for graduation and substitutions are not accepted.

University Core Requirements (42 Hours)

Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
MATH 1314	College Algebra Credit Hours: 3	
Life and Physical Sciences (6 hours)		
ASTR 1303	Stars and Galaxies Credit Hours: 3	
ASTR 1304	Solar System Credit Hours: 3	
BIOL 1306	Biology for Science Majors I Credit Hours: 3	

BIOL 1307	Biology for Science Majors II Credit Hours: 3	
BIOL 1308	Biology for Non-Science Majors I	
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3	
BIOL 2301	Anatomy & Physiology I Credit Hours: 3	
BIOL 2302	Anatomy & Physiology II Credit Hours: 3	
CHEM 1305	Introductory Chemistry I Credit Hours: 3	
CHEM 1311	General Chemistry I	
CHEM 1312	General Chemistry II Credit Hours: 3	
ENSC 1301	Environmental Science I Credit Hours: 3	
ENSC 1302	Environmental Science II Credit Hours: 3	
GEOL 1303	Physical Geology Credit Hours: 3	
GEOL 1304	Historical Geology Credit Hours: 3	
PHYS 1301	College Physics I Credit Hours: 3	
PHYS 1302	College Physics II Credit Hours: 3	
PHYS 2325	University Physics I Credit Hours: 3	
PHYS 2326	University Physics II Credit Hours: 3	
Language, Philosophy and Culture (3 hours)		
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
ARTS 1303	World Art Survey I Credit Hours: 3	

ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
American History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social and Behavioral Sciences (3 hours)		
ANTH 2346	General Anthropology Credit Hours: 3	
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3	
ECON 2301	Principles of Macroeconomics Credit Hours: 3	
ECON 2302	Principles of Microeconomics Credit Hours: 3	
GEOG 1303	World Regional Geography Credit Hours: 3	
PSYC 2301	Introduction to Psychology Credit Hours: 3	
SOCI 1301	Introduction to Sociology Credit Hours: 3	
Component Area Option (6 hours)		
Two 1- hour Life and PhysicalScience Labs		
COMM 1315	Public Speaking Credit Hours: 3	
PSYC 1100	Learning Frameworks Credit Hours: 1	

Major Requirements (45 Hours)

Students must meet these core requirements or approved upper–level substitutes.

Major Requirements	
ITEC 3312	Scripting II Credit Hours: 3
ITEC 3335	Database Development Credit Hours: 3
ITEC 3351	Web Fundamentals Credit Hours: 3
ITEC 3365	Network Fundamentals
ITEC 3381	Forensics Fundamentals Credit Hours: 3
ITEC 3388	Cyber Security I Credit Hours: 3
ITEC 4313	Emerging Information Technology Credit Hours: 3
ITEC 4342	Information Technology Project Management Credit Hours: 3
ITEC 4388	Senior Project in Information Technology Credit Hours: 3
CSCI 3303	Fundamentals of Programming Credit Hours: 3
CINF 3321	Information Systems Theory and Practice Credit Hours: 3
MGMT 3301	Management Theory and Practice Credit Hours: 3
MGMT 3313	Organizational Communication Credit Hours: 3
WRIT 3315	Advanced Technical Writing Credit Hours: 3
STAT 3308	Computational Statistics Credit Hours: 3

Additional Information

At most, only 6 credits may be transferred toward the Major Requirements and IT Specialization. Lower-level credit given for any of the above courses may require students to take additional approved technical electives to satisfy the plan requirements.

Additinal Major Requirements Courses

ITEC 4379 Internship in Information Technology or approved elective

Elective Requirements (21 hours)

Electives

9 hours of Specialization electivesApproved 12 hours of major electives (upper or lower level technical classes, apporved by faculty adviser.

Additional Information

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- 12 hours of major electives must be upper level classes which must be approved by the faculty adviser. Choose from approved ITEC/CSCI/ CINF 33xx-43xx courses.
- The specific courses beyond the Major Requirements to be included in the Candidate Plan of Study (CPS) will be selected by students with the approval of the faculty adviser.

Specialization Requirements (9 Hours)

Students must select one of the following three specializations in Information Technology (IT).

Forensics Specializati	on
Students interested in Corcourses:	nputer Forensics must take the following three
ITEC 4381	Computer Forensics
ITEC 4382	Registry & Internet Forensics
CRIM 4330	Criminal Investigation Credit Hours: 3
Web Design and Development Specialization	
Students interested in Wel three courses:	b Design and Development must take the following
ITEC 4351	Web Design Credit Hours: 3
ITEC 4352	Backend Web Development Credit Hours: 3
ISAM 4331	Introduction to Business Internet Applications Development

Information Technology Management and Administration Specialization

Credit Hours: 3

Students interested in Information Technology Management and Administration must take:

CSCI 4364 Computer Systems Administration Credit Hours: 3

Addtional Information Technology Management and Administration Specialization Requirements

Students must take two of the following three classes:

ITEC 4335 Database Administration
Credit Hours: 3

ITEC 4365	Network Administration Credit Hours: 3
ITEC 4366	Computer Security and Disaster Recovery Credit Hours: 3

Additional Information

Courses noted on the CPS as Major Requirements, Major Electives and IT Specialization must be completed with a grade of "C-" or better.

Interdisciplinary Studies B.A.S. with a major in Early Childhood Education -Educator of Young Children

The Bachelor of Applied Science (BAS) degree in Interdisciplinary Studies with a major in Early Childhood Education is a 120 credit hour 2+2 collaborative degree program with the community

college Associate of Applied Science degree in Child Development. Coursework emphasizes children from birth through age five, although several courses will cover children's learning through the primary grades to meet the needs of persons who also work with the schoolage population within their programs and to meet National Association for the Education of Young Children (NAEYC) Teacher Education Accreditation requirements.

Course content will focus on teaching diverse learners, curriculum and assessment, instructional strategies, child development, family and community relations and leadership skills. It will include multiple opportunities for firsthand field-based experiences and will be based on the NAEYC standards for

teacher education programs and the EC-6 Texas Examinations of Educator Standards (TExES) teacher education standards. The Young Children with Disabilities track will also be based on the Council for Exceptional Children Division of Early Childhood (CEC/DEC) teacher education standards.

University Core Requirements (42 Hours)

Communication (6 hours)	
WRIT 1301	Composition I Credit Hours: 3
WRIT 1302	Composition II Credit Hours: 3
Mathematics (3 hours)	
Choose one course from the list.	
MATH 1314	College Algebra Credit Hours: 3
MATH 1324	Mathematics for Business and Social Sciences. Credit Hours: 3
MATH 1325	Calculus for Business and Social Sciences Credit Hours: 3
MATH 1332	Contemporary Mathematics Credit Hours: 3
MATH 1342	Elementary Statistical Methods Credit Hours: 3
MATH 1350	Mathematics for Teachers I Credit Hours: 3
MATH 2412	Pre-Calculus Mathematics Credit Hours: 4
MATH 2413	Calculus I Credit Hours: 4
Life and Physical Sciences (6 hours)	
Choose two courses from the list.	
ASTR 1303	Stars and Galaxies Credit Hours: 3
ASTR 1304	Solar System Credit Hours: 3

BIOL 1306	Biology for Science Majors I Credit Hours: 3	
BIOL 1307	Biology for Science Majors II Credit Hours: 3	
BIOL 1308	Biology for Non-Science Majors I	
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3	
BIOL 2301	Anatomy & Physiology I Credit Hours: 3	
BIOL 2302	Anatomy & Physiology II Credit Hours: 3	
CHEM 1305	Introductory Chemistry I Credit Hours: 3	
CHEM 1311	General Chemistry I	
CHEM 1312	General Chemistry II Credit Hours: 3	
ENSC 1301	Environmental Science I Credit Hours: 3	
ENSC 1302	Environmental Science II Credit Hours: 3	
GEOL 1303	Physical Geology Credit Hours: 3	
GEOL 1304	Historical Geology Credit Hours: 3	
PHYS 1301	College Physics I Credit Hours: 3	
PHYS 1302	College Physics II Credit Hours: 3	
PHYS 2325	University Physics I Credit Hours: 3	
PHYS 2326	University Physics II Credit Hours: 3	
Language, Philosophy and Culture (3 hours)		
Choose one course from the list.		
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	

Creative Arts (3 Hours)		
Choose one course from the list.		
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
American History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social and Behavioral Sciences (3 hours)		
Choose one course from the list.		
ANTH 2346	General Anthropology Credit Hours: 3	
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3	
ECON 2301	Principles of Macroeconomics Credit Hours: 3	
ECON 2302	Principles of Microeconomics Credit Hours: 3	
GEOG 1303	World Regional Geography Credit Hours: 3	
PSYC 2301	Introduction to Psychology Credit Hours: 3	
SOCI 1301	Introduction to Sociology Credit Hours: 3	
Component Area Option (6 hours)		
Two 1- hour Life and PhysicalScience Labs		
COMM 1315	Public Speaking Credit Hours: 3	
PSYC 1100	Learning Frameworks	

Transfer Technical/Vocational Requirements

Transfer Technical/Vocational Requirements

Early Childhood/Child Development ElectiveEarly Childhood/Child Development ElectiveEarly Childhood/Child Development ElectiveEarly Childhood/Child Development ElectiveEarly Childhood/Child Development Elective

Major Requirements

Major Requirements	
ECED 1303	Children and Families Credit Hours: 3
ECED 1318	Nutrition, Health and Safety Credit Hours: 3
ECED 1354	Developmental Theories of Young Children Credit Hours: 3
ECED 4303	Child Guidance and Classroom Management for Young Children Credit Hours: 3
ECED 4305	Literacy Development Birth-Age 5 Credit Hours: 3
ECED 4306	Assessment of Young Children Birth- Age 5 Credit Hours: 3
ECED 4307	Mathematics and Science in Early Childhood Education Credit Hours: 3
ECED 4308	Creativity in Early Childhood Credit Hours: 3
ECED 4309	Advocacy and Parent Engagement Credit Hours: 3
ECED 4320	Play Credit Hours: 3
ECED 4321	Infants and Toddlers Credit Hours: 3
ECED 4322	Cultural Awareness for Young Children Credit Hours: 3
ECED 4323	Preschool Curriculum Credit Hours: 3
ECED 4326	Effective and Positive Classroom Interactions for Young Children Credit Hours: 3
ECED 4332	Early Childhood Special Education Credit Hours: 3

ECED 4377	Practicum Credit Hours: 3
Choose one course from the follo	owing
WRIT 3304	Writing for Education Credit Hours: 3
WRIT 3307	Advanced Writing Credit Hours: 3

Elective Requirements

Choose four courses from the following:	
ECED 1311	Historical and Recent Trends in Early Childhood Education Credit Hours: 3
ECED 4324	Early Childhood Leadership and Program Quality Credit Hours: 3
ECED 4325	Early Childhood Program Development Credit Hours: 3
ECED 4333	Advanced Early Childhood Special Education Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
LLLS 4348	Selecting Literature for the Very Young Child Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3
Additional Information Check prerequisites before enrolling in any courses.	

Interdisciplinary Studies B.S. with Core Subjects 4-8 Certification

University Core Requirements (42 Hours)

Communication (6 hours)	
WRIT 1301	Composition I Credit Hours: 3

WRIT 1302	Composition II Credit Hours: 3
Mathematics (3 hours)	
MATH 1314	College Algebra Credit Hours: 3
Life and Physical Sciences (6 ho	ours)
Choose two courses from the list.	
ASTR 1303	Stars and Galaxies Credit Hours: 3
ASTR 1304	Solar System Credit Hours: 3
BIOL 1306	Biology for Science Majors I Credit Hours: 3
BIOL 1307	Biology for Science Majors II Credit Hours: 3
BIOL 1308	Biology for Non-Science Majors I
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3
BIOL 2301	Anatomy & Physiology I Credit Hours: 3
BIOL 2302	Anatomy & Physiology II Credit Hours: 3
CHEM 1305	Introductory Chemistry I Credit Hours: 3
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II Credit Hours: 3
ENSC 1301	Environmental Science I Credit Hours: 3
ENSC 1302	Environmental Science II Credit Hours: 3
GEOL 1303	Physical Geology Credit Hours: 3
GEOL 1304	Historical Geology Credit Hours: 3
PHYS 1301	College Physics I Credit Hours: 3
PHYS 1302	College Physics II Credit Hours: 3
PHYS 2325	University Physics I Credit Hours: 3
PHYS 2326	University Physics II Credit Hours: 3

Choose one course from the list.		
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
Choose one course from the list.		
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
American History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social and Behavioral Sciences (3 hours)		
Choose one course from the list.		
ANTH 2346	General Anthropology Credit Hours: 3	
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3	
ECON 2301	Principles of Macroeconomics Credit Hours: 3	
	_	
ECON 2302	Principles of Microeconomics Credit Hours: 3	

PSYC 2301	Introduction to Psychology Credit Hours: 3	
SOCI 1301	Introduction to Sociology Credit Hours: 3	
Component Area Option (6 hours)		
Two 1- hour Life and PhysicalScience Labs		
COMM 1315	Public Speaking Credit Hours: 3	

College Core Requirements	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3
SPED 2301	Introduction to Special Populations Credit Hours: 3
SPED 4300	Survey of Exceptionalities Credit Hours: 3
TCED 1301	Exploring Teaching as a Profession Credit Hours: 3

Major Requirements

Major Requirements	
Choose two Natural Science courses in addition to the University Core	
LLLS 4311	Survey of Reading Credit Hours: 3
LLLS 4345	Survey of Children's Literature Credit Hours: 3
LLLS 4346	Teaching Language Arts in the 4-8 Classroom Credit Hours: 3
MATH 1350	Mathematics for Teachers I Credit Hours: 3
MATH 1351	Mathematics for Teachers II Credit Hours: 3
MATH 3304	Algebra Through Technology Credit Hours: 3

MATH 3306	Problem Solving Credit Hours: 3	
TCED 4100	Core Subjects Teacher Seminar Credit Hours: 1	
TCED 4304	Creating Positive Learning Environments in 4-8 Credit Hours: 3	
Choose one from the following I	ist:	
WRIT 3304	Writing for Education Credit Hours: 3	
WRIT 3307	Advanced Writing Credit Hours: 3	
Choose two courses from the fo	Choose two courses from the following:	
HIST 2301	Texas History Credit Hours: 3	
HIST 3301	Ancient World Credit Hours: 3	
HIST 3307	Medieval Europe Credit Hours: 3	
HIST 3309	Renaissance and Reformation Credit Hours: 3	
HIST 3317	Introduction to Latin American History Credit Hours: 3	
HIST 3319	Colonial Latin America Credit Hours: 3	
HIST 3321	Modern Latin America Credit Hours: 3	
HIST 3323	History of Mexico Credit Hours: 3	
HIST 3325	Colonial America Credit Hours: 3	
HIST 3327	The New American Nation Credit Hours: 3	
HIST 3329	Antebellum America Credit Hours: 3	
HIST 3330	Civil War and Reconstruction Credit Hours: 3	
HIST 4325	Studies in Middle Eastern History Credit Hours: 3	
Choose one course from the following:		
LITR 4326	Early American Literature Credit Hours: 3	

LITR 4338	American Minority Literature Credit Hours: 3
LITR 4340	American Immigrant Literature Credit Hours: 3
LITR 4362	The Literature of Adolescence Credit Hours: 3
LITR 4364	Women in Literature Credit Hours: 3
LITR 4368	Literature of the Future Credit Hours: 3
Choose one course from the following:	
Choose one course from the following	owing:
GEOG 1303	World Regional Geography Credit Hours: 3
	World Regional Geography
GEOG 1303	World Regional Geography Credit Hours: 3 Geography of the United States and Canada
GEOG 1303 GEOG 4300	World Regional Geography Credit Hours: 3 Geography of the United States and Canada Credit Hours: 3 Geography of Latin America

Pedagogy Requirements

Courses	
TCED 4323	Mathematics Methods for EC-6 Credit Hours: 3
TCED 4331	Social Studies Methods for Grades 4-8 Credit Hours: 3
TCED 4332	Science Methods for Grades 4-8 Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3
TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9

Credit Hours: 3

Additional Information

- GPA of 2.500 or higher required in Major Requirement coursework (excluding TCED 4304 and TCED 4100).
- Grade of B- or better required in WRIT 3304/3307.
- All courses outside the University Core must be C- or better. Check prerequisites before enrolling in any courses.
- In the 12 hours (core included) of Science, students must have at least one course in each of the following areas: Biology, Earth Science and Physics/Chemistry/Astronomy.

Interdisciplinary Studies B.S. with Core Subjects 4-8 and ESL Supplemental Certification

University Core Requirements (42 Hours)

Communication (6 hours)

WRIT 1301 WRIT 1302 Mathematics (3 hours)	Composition I Credit Hours: 3 Composition II Credit Hours: 3
Mathematics (3 hours)	
MATH 1314	College Algebra Credit Hours: 3
Life and Physical Sciences (6 hours)	
Choose two courses from the list.	
ASTR 1303	Stars and Galaxies Credit Hours: 3
ASTR 1304	Solar System Credit Hours: 3
BIOL 1306	Biology for Science Majors I Credit Hours: 3
BIOL 1307	Biology for Science Majors II Credit Hours: 3
BIOL 1308	Biology for Non-Science Majors I
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3
BIOL 2301	Anatomy & Physiology I Credit Hours: 3
BIOL 2302	Anatomy & Physiology II Credit Hours: 3
CHEM 1305	Introductory Chemistry I Credit Hours: 3
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II Credit Hours: 3

ENSC 1301	Environmental Science I Credit Hours: 3	
ENSC 1302	Environmental Science II Credit Hours: 3	
GEOL 1303	Physical Geology Credit Hours: 3	
GEOL 1304	Historical Geology Credit Hours: 3	
PHYS 1301	College Physics I Credit Hours: 3	
PHYS 1302	College Physics II Credit Hours: 3	
PHYS 2325	University Physics I Credit Hours: 3	
PHYS 2326	University Physics II Credit Hours: 3	
Language, Philosophy and Culture (3 hours)		
Choose one course from the list.		
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
Choose one course from the list.		
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
American History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		

POLS 2305	Federal Government Credit Hours: 3
POLS 2306	Texas Government Credit Hours: 3
Social and Behavioral Sciences (3 hours)	
Choose one course from the list.	
ANTH 2346	General Anthropology Credit Hours: 3
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3
ECON 2301	Principles of Macroeconomics Credit Hours: 3
ECON 2302	Principles of Microeconomics Credit Hours: 3
GEOG 1303	World Regional Geography Credit Hours: 3
PSYC 2301	Introduction to Psychology Credit Hours: 3
SOCI 1301	Introduction to Sociology Credit Hours: 3
Component Area Option (6 hours)	
Two 1- hour Life and PhysicalScience Labs	
COMM 1315	Public Speaking Credit Hours: 3
PSYC 1100	Learning Frameworks Credit Hours: 1

College Core Requirements	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3
SPED 2301	Introduction to Special Populations Credit Hours: 3
SPED 4300	Survey of Exceptionalities Credit Hours: 3
TCED 1301	Exploring Teaching as a Profession Credit Hours: 3

Major Requirements

Major Requirements		
Choose two Natural Science courses in addition to the University Core		
LLLS 4311	Survey of Reading Credit Hours: 3	
LLLS 4346	Teaching Language Arts in the 4-8 Classroom Credit Hours: 3	
LLLS 4351	Reading in Content Subjects Credit Hours: 3	
MATH 1350	Mathematics for Teachers I Credit Hours: 3	
MATH 1351	Mathematics for Teachers II Credit Hours: 3	
MATH 3304	Algebra Through Technology Credit Hours: 3	
SILC 4302	Introduction to the Study of Languages Credit Hours: 3	
SILC 4310	Foundations of Bilingual and ESL Education Credit Hours: 3	
SILC 4311	ESL Methods Credit Hours: 3	
SILC 4312	Content-Based ESL Credit Hours: 3	
SILC 4313	Language Learning Credit Hours: 3	
TCED 4100	Core Subjects Teacher Seminar Credit Hours: 1	
TCED 4304	Creating Positive Learning Environments in 4–8 Credit Hours: 3	
Choose one from the following list:		
WRIT 3304	Writing for Education Credit Hours: 3	
WRIT 3307	Advanced Writing Credit Hours: 3	
Choose one course from the following:		
LITR 3334	Mythology Credit Hours: 3	
LITR 3361	Shakespeare Credit Hours: 3	

LITR 4304	Workshop in Poetics Credit Hours: 3
LITR 4312	Chaucer Credit Hours: 3
LITR 4320	The Romantic Movement in British Literature Credit Hours: 3
LITR 4322	Victorian Literature Credit Hours: 3
LITR 4328	The American Renaissance Credit Hours: 3
LITR 4330	American Realism and Naturalism Credit Hours: 3
LITR 4335	American Modernism Credit Hours: 3
LITR 4370	Tragedy Credit Hours: 3
LITR 4371	Comedy Credit Hours: 3
LLLS 4345	Survey of Children's Literature Credit Hours: 3

Pedagogy Requirements

Courses	
TCED 4332	Science Methods for Grades 4-8 Credit Hours: 3
TCED 4333	Mathematics Methods for Grades 4-8 Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3
TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9

Additional Information

- GPA of 2.500 or higher required in SILC coursework.
- \cdot Grade of B- or better required in WRIT 3304/3307.
- All courses outside the University Core must be C- or better. Check prerequisites before enrolling in any courses.
- In the 12 hours (core included) of Science, students must have at least one course in each of the following areas: Biology, Earth Science and Physics/Chemistry/Astronomy.

Interdisciplinary Studies B.S. with Core Subjects

EC-6 Certification (Early Childhood Concentration)

University Core Requirements (42 Hours)

Communication (6 hours)	
WRIT 1301	Composition I Credit Hours: 3
WRIT 1302	Composition II Credit Hours: 3
Mathematics (3 hours)	
MATH 1314	College Algebra Credit Hours: 3
Life and Physical Sciences (6 ho	urs)
Choose two courses from the list.	
ASTR 1303	Stars and Galaxies Credit Hours: 3
ASTR 1304	Solar System Credit Hours: 3
BIOL 1306	Biology for Science Majors I Credit Hours: 3
BIOL 1307	Biology for Science Majors II Credit Hours: 3
BIOL 1308	Biology for Non-Science Majors I
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3
BIOL 2301	Anatomy & Physiology I Credit Hours: 3
BIOL 2302	Anatomy & Physiology II Credit Hours: 3
CHEM 1305	Introductory Chemistry I Credit Hours: 3
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II Credit Hours: 3
ENSC 1301	Environmental Science I Credit Hours: 3
ENSC 1302	Environmental Science II Credit Hours: 3

GEOL 1303	Physical Geology Credit Hours: 3
GEOL 1304	Historical Geology Credit Hours: 3
PHYS 1301	College Physics I Credit Hours: 3
PHYS 1302	College Physics II Credit Hours: 3
PHYS 2325	University Physics I Credit Hours: 3
PHYS 2326	University Physics II Credit Hours: 3
Language, Philosophy and Cultur	re (3 hours)
Choose one course from the list.	
HUMN 1301	Humanities Credit Hours: 3
LITR 2341	Literature and Experience Credit Hours: 3
PHIL 1301	Introduction to Philosophy Credit Hours: 3
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3
Creative Arts (3 Hours)	
ARTS 2379	Arts and the Child Credit Hours: 3
American History (6 hours)	
HIST 1301	United States History I Credit Hours: 3
HIST 1302	United States History II Credit Hours: 3
Government/ Political Science (6 hours)	
POLS 2305	Federal Government Credit Hours: 3
POLS 2306	Texas Government Credit Hours: 3
Social and Behavioral Sciences (3 hours)	
Choose one course from the list.	
ANTH 2346	General Anthropology Credit Hours: 3

CRIM 1301	Introduction to Criminal Justice Credit Hours: 3
ECON 2301	Principles of Macroeconomics Credit Hours: 3
ECON 2302	Principles of Microeconomics Credit Hours: 3
GEOG 1303	World Regional Geography Credit Hours: 3
PSYC 2301	Introduction to Psychology Credit Hours: 3
SOCI 1301	Introduction to Sociology Credit Hours: 3
Component Area Option (6 hours)	

COMM 1315 Public Speaking Credit Hours: 3 PSYC 1100 Learning Frameworks Credit Hours: 1

College Core Requirements

Two 1- hour Life and PhysicalScience Labs

College Core Requirements	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3
SPED 2301	Introduction to Special Populations Credit Hours: 3
SPED 4300	Survey of Exceptionalities Credit Hours: 3
TCED 1301	Exploring Teaching as a Profession Credit Hours: 3

Major Requirements

Major Requirements	
Choose two Natural Science courses in addition to the University Core	
ECED 1303	Children and Families Credit Hours: 3
ECED 1354	Developmental Theories of Young Children Credit Hours: 3

ECED 4302	Developing Competence in Young Children
	Credit Hours: 3
ECED 4311	Reading Development in Young Children Credit Hours: 3
ECED 4314	Observational/Developmental Assessment of Young Children Credit Hours: 3
HLTH 3302	Health and Physical Education - EC-6 Survey Credit Hours: 3
LLLS 4311	Survey of Reading Credit Hours: 3
LLLS 4344	Reading & Driting for EC-6 Credit Hours: 3
LLLS 4345	Survey of Children's Literature Credit Hours: 3
MATH 1350	Mathematics for Teachers I Credit Hours: 3
MATH 1351	Mathematics for Teachers II Credit Hours: 3
TCED 4100	Core Subjects Teacher Seminar Credit Hours: 1
TCED 4303	Creating Positive Learning Environments in EC-6 Credit Hours: 3
Choose ONE from the following list:	
WRIT 3304	Writing for Education Credit Hours: 3
WRIT 3307	Advanced Writing Credit Hours: 3

Pedagogy Requirements

Pedagogy Requirements	
TCED 4321	Social Studies Methods for EC-6 Credit Hours: 3
TCED 4322	Science Methods for EC-6 Credit Hours: 3
TCED 4323	Mathematics Methods for EC-6 Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3

TCED 4978	Pre-Service Internship II/Student
	Teaching
	Credit Hours: 9

Additional Information

- GPA of 2.500 or higher required in ECED coursework.
- Grade of B- or better required in WRIT 3304/3307.
- All courses outside the University Core must be C- or better. Check prerequisites before enrolling in any courses.
- In the 12 hours (core included) of Science, students must have at least one course in each of the following areas: Biology, Earth Science and Physics/Chemistry/Astronomy.

Interdisciplinary Studies B.S. with Core Subjects EC-6 Certification (Reading Concentration)

University Core Requirements (42 Hours)

Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
MATH 1314	College Algebra Credit Hours: 3	
Life and Physical Sciences (6 hours)		
Choose two courses from the list.		
ASTR 1303	Stars and Galaxies Credit Hours: 3	
ASTR 1304	Solar System Credit Hours: 3	
BIOL 1306	Biology for Science Majors I Credit Hours: 3	
BIOL 1307	Biology for Science Majors II Credit Hours: 3	
BIOL 1308	Biology for Non-Science Majors I	
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3	

BIOL 2301	Anatomy & Physiology I Credit Hours: 3
BIOL 2302	Anatomy & Physiology II Credit Hours: 3
CHEM 1305	Introductory Chemistry I Credit Hours: 3
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II Credit Hours: 3
ENSC 1301	Environmental Science I Credit Hours: 3
ENSC 1302	Environmental Science II Credit Hours: 3
GEOL 1303	Physical Geology Credit Hours: 3
GEOL 1304	Historical Geology Credit Hours: 3
PHYS 1301	College Physics I Credit Hours: 3
PHYS 1302	College Physics II Credit Hours: 3
PHYS 2325	University Physics I Credit Hours: 3
PHYS 2326	University Physics II Credit Hours: 3
Language, Philosophy and Cultur	re (3 hours)
Choose one course from the list.	
HUMN 1301	Humanities Credit Hours: 3
LITR 2341	Literature and Experience Credit Hours: 3
PHIL 1301	Introduction to Philosophy Credit Hours: 3
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3
Creative Arts (3 Hours)	
ARTS 2379	Arts and the Child Credit Hours: 3
American History (6 hours)	
HIST 1301	United States History I Credit Hours: 3

HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social and Behavioral Sciences (3 hours)		
Choose one course from the list.		
ANTH 2346	General Anthropology Credit Hours: 3	
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3	
ECON 2301	Principles of Macroeconomics Credit Hours: 3	
ECON 2302	Principles of Microeconomics Credit Hours: 3	
GEOG 1303	World Regional Geography Credit Hours: 3	
PSYC 2301	Introduction to Psychology Credit Hours: 3	
SOCI 1301	Introduction to Sociology Credit Hours: 3	
Component Area Option (6 hours)		
Two 1- hour Life and PhysicalScience Labs		
COMM 1315	Public Speaking Credit Hours: 3	
PSYC 1100	Learning Frameworks Credit Hours: 1	

College Core Requirements	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3
SPED 2301	Introduction to Special Populations Credit Hours: 3

SPED 4300	Survey of Exceptionalities Credit Hours: 3
TCED 1301	Exploring Teaching as a Profession Credit Hours: 3

Major Requirements

Major Requirements	
Choose two Natural Science courses in addition to the University Core	
HLTH 3302	Health and Physical Education - EC-6 Survey Credit Hours: 3
LLLS 4311	Survey of Reading Credit Hours: 3
LLLS 4313	Corrective and Remedial Reading Credit Hours: 3
LLLS 4332	Diagnostic and Prescriptive Reading Credit Hours: 3
LLLS 4344	Reading & Writing for EC-6 Credit Hours: 3
LLLS 4345	Survey of Children's Literature Credit Hours: 3
LLLS 4347	Multicultural Literature Credit Hours: 3
LLLS 4379	Practicum in Clinical Reading Credit Hours: 3
MATH 1350	Mathematics for Teachers I Credit Hours: 3
MATH 1351	Mathematics for Teachers II Credit Hours: 3
MATH 3306	Problem Solving Credit Hours: 3
TCED 4100	Core Subjects Teacher Seminar Credit Hours: 1
TCED 4303	Creating Positive Learning Environments in EC-6 Credit Hours: 3
Choose one from the following list:	
WRIT 3304	Writing for Education Credit Hours: 3
WRIT 3307	Advanced Writing Credit Hours: 3

Pedagogy Requirements

Pedagogy Requirements	
TCED 4321	Social Studies Methods for EC-6 Credit Hours: 3
TCED 4322	Science Methods for EC-6 Credit Hours: 3
TCED 4323	Mathematics Methods for EC-6 Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3
TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9
Additional Information	

- GPA of 2.500 or higher required in LLLS coursework.
- Grade of B- or better required in WRIT 3304/3307.
- All courses outside the University Core must be C- or better.
- Check prerequisites before enrolling in any courses.
- In the 12 hours (core included) of Science, students must have at least one course in each of the following areas: Biology, Earth Science and Physics/Chemistry/Astronomy.

Interdisciplinary Studies B.S. with Core Subjects **EC-6** and Bilingual **Supplemental Certification**

University Core Requirements (42 Hours)

Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
MATH 1314	College Algebra Credit Hours: 3	

Life and Physical Sciences (6 hours)	
Choose two courses from the list.	
ASTR 1303	Stars and Galaxies Credit Hours: 3
ASTR 1304	Solar System Credit Hours: 3
BIOL 1306	Biology for Science Majors I Credit Hours: 3
BIOL 1307	Biology for Science Majors II Credit Hours: 3
BIOL 1308	Biology for Non-Science Majors I
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3
BIOL 2301	Anatomy & Physiology I Credit Hours: 3
BIOL 2302	Anatomy & Physiology II Credit Hours: 3
CHEM 1305	Introductory Chemistry I Credit Hours: 3
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II Credit Hours: 3
ENSC 1301	Environmental Science I Credit Hours: 3
ENSC 1302	Environmental Science II Credit Hours: 3
GEOL 1303	Physical Geology Credit Hours: 3
GEOL 1304	Historical Geology Credit Hours: 3
PHYS 1301	College Physics I Credit Hours: 3
PHYS 1302	College Physics II Credit Hours: 3
PHYS 2325	University Physics I Credit Hours: 3
PHYS 2326	University Physics II Credit Hours: 3
Language, Philosophy and Culture (3 hours)	
Choose one course from the list.	
HUMN 1301	Humanities Credit Hours: 3

LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
ARTS 2379	Arts and the Child Credit Hours: 3	
American History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social and Behavioral Sciences (3 hours)	
Choose one course from the list.		
ANTH 2346	General Anthropology Credit Hours: 3	
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3	
ECON 2301	Principles of Macroeconomics Credit Hours: 3	
ECON 2302	Principles of Microeconomics Credit Hours: 3	
GEOG 1303	World Regional Geography Credit Hours: 3	
PSYC 2301	Introduction to Psychology Credit Hours: 3	
SOCI 1301	Introduction to Sociology Credit Hours: 3	
Component Area Option (6 hours)		
Two 1- hour Life and PhysicalScience Labs		
COMM 1315	Public Speaking Credit Hours: 3	

PSYC 1100	Learning Frameworks
	Credit Hours: 1

College Core Requirements	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3
SPED 2301	Introduction to Special Populations Credit Hours: 3
SPED 4300	Survey of Exceptionalities Credit Hours: 3
TCED 1301	Exploring Teaching as a Profession Credit Hours: 3

Major Requirements

Major Requirements	
Choose TWO Natural Science courses i	n addition to the University Core
HLTH 3302	Health and Physical Education - EC-6 Survey Credit Hours: 3
LLLS 4311	Survey of Reading Credit Hours: 3
LLLS 4344	Reading & Triting for EC-6 Credit Hours: 3
LLLS 4345	Survey of Children's Literature Credit Hours: 3
MATH 1350	Mathematics for Teachers I Credit Hours: 3
MATH 1351	Mathematics for Teachers II Credit Hours: 3
SILC 4301	Spanish for Bilingual Teachers Credit Hours: 3
SILC 4310	Foundations of Bilingual and ESL Education Credit Hours: 3
SILC 4313	Language Learning Credit Hours: 3

SILC 4316	Bilingual Curriculum in the Content Areas Credit Hours: 3
SILC 4351	Development of Biliteracy Credit Hours: 3
TCED 4100	Core Subjects Teacher Seminar Credit Hours: 1
TCED 4303	Creating Positive Learning Environments in EC-6 Credit Hours: 3
Choose one from the following list:	
WRIT 3304	Writing for Education Credit Hours: 3
WRIT 3307	Advanced Writing Credit Hours: 3

Pedagogy Requirements

Pedagogy Requirements	
TCED 4321	Social Studies Methods for EC-6 Credit Hours: 3
TCED 4322	Science Methods for EC-6 Credit Hours: 3
TCED 4323	Mathematics Methods for EC-6 Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3
TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9

Additional Information

- GPA of 2.500 or higher required in SILC coursework.
- Grade of B- or better required in WRIT 3304/3307.
- All courses outside the University Core must be C- or better. Check prerequisites before enrolling in any courses.
- In the 12 hours (core included) of Science, students must have at least one course in each of the following areas: Biology, Earth Science and Physics/Chemistry/Astronomy.

Interdisciplinary Studies B.S. with Core Subjects

EC-6 and ESL Supplemental Certification

University Core Requirements (42 Hours)

Communication (6 hours)	
WRIT 1301	Composition I Credit Hours: 3
WRIT 1302	Composition II Credit Hours: 3
Mathematics (3 hours)	
MATH 1314	College Algebra Credit Hours: 3
Life and Physical Sciences (6 ho	urs)
Choose two courses from the list.	
ASTR 1303	Stars and Galaxies Credit Hours: 3
ASTR 1304	Solar System Credit Hours: 3
BIOL 1306	Biology for Science Majors I Credit Hours: 3
BIOL 1307	Biology for Science Majors II Credit Hours: 3
BIOL 1308	Biology for Non-Science Majors I
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3
BIOL 2301	Anatomy & Physiology I Credit Hours: 3
BIOL 2302	Anatomy & Physiology II Credit Hours: 3
CHEM 1305	Introductory Chemistry I Credit Hours: 3
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II Credit Hours: 3
ENSC 1301	Environmental Science I Credit Hours: 3

ENSC 1302	Environmental Science II Credit Hours: 3	
GEOL 1303	Physical Geology Credit Hours: 3	
GEOL 1304	Historical Geology Credit Hours: 3	
PHYS 1301	College Physics I Credit Hours: 3	
PHYS 1302	College Physics II Credit Hours: 3	
PHYS 2325	University Physics I Credit Hours: 3	
PHYS 2326	University Physics II Credit Hours: 3	
Language, Philosophy and Culture (3 hours)		
Choose one course from the list.		
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
ARTS 2379	Arts and the Child Credit Hours: 3	
American History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social and Behavioral Sciences (3 hours)		
Choose one course from the list.		

ANTH 2346	General Anthropology Credit Hours: 3
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3
ECON 2301	Principles of Macroeconomics Credit Hours: 3
ECON 2302	Principles of Microeconomics Credit Hours: 3
GEOG 1303	World Regional Geography Credit Hours: 3
PSYC 2301	Introduction to Psychology Credit Hours: 3
SOCI 1301	Introduction to Sociology Credit Hours: 3
Component Area Option (6 hours)	
Two 1- hour Life and PhysicalScience Labs	
COMM 1315	Public Speaking Credit Hours: 3
PSYC 1100	Learning Frameworks Credit Hours: 1

College Core Requirements	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3
SPED 2301	Introduction to Special Populations Credit Hours: 3
SPED 4300	Survey of Exceptionalities Credit Hours: 3
TCED 1301	Exploring Teaching as a Profession Credit Hours: 3

Major Requirements

Major Requirements	
Choose two Natural Science courses in addition to the University Core	
HLTH 3302	Health and Physical Education - EC-6 Survey Credit Hours: 3

LLLS 4311	Survey of Reading Credit Hours: 3
LLLS 4344	Reading & Triting for EC-6 Credit Hours: 3
LLLS 4345	Survey of Children's Literature Credit Hours: 3
MATH 1350	Mathematics for Teachers I Credit Hours: 3
MATH 1351	Mathematics for Teachers II Credit Hours: 3
SILC 4302	Introduction to the Study of Languages Credit Hours: 3
SILC 4310	Foundations of Bilingual and ESL Education Credit Hours: 3
SILC 4311	ESL Methods Credit Hours: 3
SILC 4312	Content-Based ESL Credit Hours: 3
SILC 4313	Language Learning Credit Hours: 3
TCED 4100	Core Subjects Teacher Seminar Credit Hours: 1
TCED 4303	Creating Positive Learning Environments in EC-6 Credit Hours: 3
Choose one from the following list:	
WRIT 3304	Writing for Education Credit Hours: 3
WRIT 3307	Advanced Writing Credit Hours: 3

Pedagogy Requirements

Pedagogy Requirements	
TCED 4321	Social Studies Methods for EC-6 Credit Hours: 3
TCED 4322	Science Methods for EC-6 Credit Hours: 3
TCED 4323	Mathematics Methods for EC-6 Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3

TCED 4978	Pre-Service Internship II/Student
	Teaching
	Credit Hours: 9

Additional Information

- GPA of 2.500 or higher required in SILC coursework.
- Grade of B- or better required in WRIT 3304/3307.
- · All courses outside the University Core must be C- or better.
- · Check prerequisites before enrolling in any courses.
- In the 12 hours (core included) of Science, students must have at least one course in each of the following areas: Biology, Earth Science and Physics/Chemistry/Astronomy.

Interdisciplinary Studies B.S. with Core Subjects EC-6 and Special Education EC-12 Certification

University Core Requirements (42 Hours)

Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
MATH 1314	College Algebra Credit Hours: 3	
Life and Physical Sciences (6 hours)		
Choose two courses from the list.		
ASTR 1303	Stars and Galaxies Credit Hours: 3	
ASTR 1304	Solar System Credit Hours: 3	
BIOL 1306	Biology for Science Majors I Credit Hours: 3	
BIOL 1307	Biology for Science Majors II Credit Hours: 3	
BIOL 1308	Biology for Non-Science Majors I	

BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3	
BIOL 2301	Anatomy & Physiology I Credit Hours: 3	
BIOL 2302	Anatomy & Physiology II Credit Hours: 3	
CHEM 1305	Introductory Chemistry I Credit Hours: 3	
CHEM 1311	General Chemistry I	
CHEM 1312	General Chemistry II Credit Hours: 3	
ENSC 1301	Environmental Science I Credit Hours: 3	
ENSC 1302	Environmental Science II Credit Hours: 3	
GEOL 1303	Physical Geology Credit Hours: 3	
GEOL 1304	Historical Geology Credit Hours: 3	
PHYS 1301	College Physics I Credit Hours: 3	
PHYS 1302	College Physics II Credit Hours: 3	
PHYS 2325	University Physics I Credit Hours: 3	
PHYS 2326	University Physics II Credit Hours: 3	
Language, Philosophy and Culture (3 hours)		
Choose one course from the list.		
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
ARTS 2379	Arts and the Child Credit Hours: 3	
American History (6 hours)		

HIST 1301	United States History I Credit Hours: 3		
HIST 1302	United States History II Credit Hours: 3		
Government/ Political Science (Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3		
POLS 2306	Texas Government Credit Hours: 3		
Social and Behavioral Sciences (3 hours)			
Choose one course from the list.			
ANTH 2346	General Anthropology Credit Hours: 3		
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3		
ECON 2301	Principles of Macroeconomics Credit Hours: 3		
ECON 2302	Principles of Microeconomics Credit Hours: 3		
GEOG 1303	World Regional Geography Credit Hours: 3		
PSYC 2301	Introduction to Psychology Credit Hours: 3		
SOCI 1301	Introduction to Sociology Credit Hours: 3		
Component Area Option (6 hours)			
Two 1- hour Life and PhysicalScience Labs			
COMM 1315	Public Speaking Credit Hours: 3		
PSYC 1100	Learning Frameworks Credit Hours: 1		

College Core Requirements	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3

SPED 2301	Introduction to Special Populations Credit Hours: 3
SPED 4300	Survey of Exceptionalities Credit Hours: 3
TCED 1301	Exploring Teaching as a Profession Credit Hours: 3

Major Requirements

Major Requirements	
Choose two Natural Science courses in addition to the University Core	
HLTH 3302	Health and Physical Education - EC-6 Survey Credit Hours: 3
LLLS 4311	Survey of Reading Credit Hours: 3
LLLS 4313	Corrective and Remedial Reading Credit Hours: 3
LLLS 4332	Diagnostic and Prescriptive Reading Credit Hours: 3
LLLS 4344	Reading & Driting for EC-6 Credit Hours: 3
MATH 1350	Mathematics for Teachers I Credit Hours: 3
MATH 1351	Mathematics for Teachers II Credit Hours: 3
SPED 4311	Assessment in Special Education Credit Hours: 3
SPED 4312	Diagnostic Instruction for Learners With Special Needs Credit Hours: 3
SPED 4313	Individualizing Instruction for Students With Disabilities Credit Hours: 3
SPED 4321	Implementing Positive Behavior Supports Credit Hours: 3
SPED 4332	Early Childhood Special Education Credit Hours: 3
TCED 4100	Core Subjects Teacher Seminar Credit Hours: 1
TCED 4303	Creating Positive Learning Environments in EC-6 Credit Hours: 3

Choose one from the following list:

WRIT 3304	Writing for Education Credit Hours: 3
WRIT 3307	Advanced Writing Credit Hours: 3

Pedagogy Requirements

Pedagogy Requirements	
TCED 4321	Social Studies Methods for EC-6 Credit Hours: 3
TCED 4322	Science Methods for EC-6 Credit Hours: 3
TCED 4323	Mathematics Methods for EC-6 Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3
TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9

Additional Information

- GPA of 2.500 or higher required in SPED coursework.
- Grade of B- or better required in WRIT 3304/3307.
- · All courses outside the University Core must be C- or better.
- \cdot Check prerequisites before enrolling in any courses.
- In the 12 hours (core included) of Science, students must have at least one course in each of the following areas: Biology, Earth Science and Physics/Chemistry/Astronomy.

Interdisciplinary Studies B.S. with Science 4-8 Certification

University Core Requirements (42 Hours)

Communication (6 hours)	
WRIT 1301	Composition I Credit Hours: 3
WRIT 1302	Composition II Credit Hours: 3

N (1)		
Mathematics (3 hours)		
MATH 2412	Pre-Calculus Mathematics Credit Hours: 4	
Life and Physical Sciences (6 ho	urs)	
BIOL 1306	Biology for Science Majors I Credit Hours: 3	
BIOL 1307	Biology for Science Majors II Credit Hours: 3	
Language, Philosophy and Cultur	e (3 hours)	
Choose one course from the list.		
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
Choose one course from the list.		
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
American History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social and Behavioral Sciences (3 hours)		
Choose one course from the list.		

ANTH 2346	General Anthropology Credit Hours: 3
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3
ECON 2301	Principles of Macroeconomics Credit Hours: 3
ECON 2302	Principles of Microeconomics Credit Hours: 3
GEOG 1303	World Regional Geography Credit Hours: 3
PSYC 2301	Introduction to Psychology Credit Hours: 3
SOCI 1301	Introduction to Sociology Credit Hours: 3
Component Area Ontion (6 hours)	

	Component Area Option (6 hours)	
Two 1- hour Life and PhysicalScience Labs		abs
	COMM 1315	Public Speaking Credit Hours: 3
	PSYC 1100	Learning Frameworks Credit Hours: 1
	BIOL 1106	Laboratory for Biology for Science Majors I Credit Hours: 1
	BIOL 1107	Laboratory for Biology for Science Majors II Credit Hours: 1

College Core Requirements	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3
SPED 2301	Introduction to Special Populations Credit Hours: 3
SPED 4300	Survey of Exceptionalities Credit Hours: 3
TCED 1301	Exploring Teaching as a Profession Credit Hours: 3

Major Requirements

Major Requirements	
ASTR 3311	Modern Astronomy Credit Hours: 3
CHEM 1311	General Chemistry I
CHEM 1111	Laboratory for General Chemistry I Credit Hours: 1
CHEM 1312	General Chemistry II Credit Hours: 3
CHEM 1112	Laboratory for General Chemistry II Credit Hours: 1
ENSC 1301	Environmental Science I Credit Hours: 3
ENSC 1101	Laboratory for Environmental Science I Credit Hours: 1
GEOL 1303	Physical Geology Credit Hours: 3
GEOL 1103	Laboratory for Physical Geology Credit Hours: 1
GEOL 1304	Historical Geology Credit Hours: 3
GEOL 1104	Laboratory for Historical Geology Credit Hours: 1
LLLS 4311	Survey of Reading Credit Hours: 3
LLLS 4351	Reading in Content Subjects Credit Hours: 3
MATH 1350	Mathematics for Teachers I Credit Hours: 3
MATH 1351	Mathematics for Teachers II Credit Hours: 3
PHYS 1301	College Physics I Credit Hours: 3
PHYS 1101	Laboratory for College Physics I Credit Hours: 1
PHYS 1302	College Physics II Credit Hours: 3
PHYS 1102	Laboratory for College Physics II Credit Hours: 1
TCED 4102	Secondary (4-8 and 7-12) Content Teacher Seminar Credit Hours: 1

TCED 4304	Creating Positive Learning Environments in 4-8 Credit Hours: 3
Choose one from the following list:	
WRIT 3304	Writing for Education Credit Hours: 3
WRIT 3307	Advanced Writing Credit Hours: 3

Pedagogy Requirements

Courses	
TCED 4332	Science Methods for Grades 4-8 Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3
TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9

Additional Information

- GPA of 2.500 or higher required in Natural Science coursework.
- Grade of B- or better required in WRIT 3304/3307.
- All courses outside the University Core must be C- or better. Check prerequisites before enrolling in any courses.
- In the 12 hours (core included) of Science, students must have at least one course in each of the following areas: Biology, Earth Science and Physics/Chemistry/Astronomy.

Interdisciplinary Studies B.S. with Social Studies 4-8 Certification

University Core Requirements (42 Hours)

Communication (6 hours)	
WRIT 1301	Composition I Credit Hours: 3

WRIT 1302	Composition II Credit Hours: 3
Mathematics (3 hours)	
MATH 1314	College Algebra Credit Hours: 3
Life and Physical Sciences (6 ho	urs)
Choose two courses from the list.	
ASTR 1303	Stars and Galaxies Credit Hours: 3
ASTR 1304	Solar System Credit Hours: 3
BIOL 1306	Biology for Science Majors I Credit Hours: 3
BIOL 1307	Biology for Science Majors II Credit Hours: 3
BIOL 1308	Biology for Non-Science Majors I
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3
BIOL 2301	Anatomy & Physiology I Credit Hours: 3
BIOL 2302	Anatomy & Physiology II Credit Hours: 3
CHEM 1305	Introductory Chemistry I Credit Hours: 3
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II Credit Hours: 3
ENSC 1301	Environmental Science I Credit Hours: 3
ENSC 1302	Environmental Science II Credit Hours: 3
GEOL 1303	Physical Geology Credit Hours: 3
GEOL 1304	Historical Geology Credit Hours: 3
PHYS 1301	College Physics I Credit Hours: 3
PHYS 1302	College Physics II Credit Hours: 3
PHYS 2325	University Physics I Credit Hours: 3
PHYS 2326	University Physics II Credit Hours: 3

Language, Philosophy and Culture (3 hours)		
Choose one course from the list.		
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
Choose one course from the list.		
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
American History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social and Behavioral Sciences (3 hours)		
ECON 2302	Principles of Microeconomics Credit Hours: 3	
Component Area Option (6 hours)		
Two 1- hour Life and PhysicalScience Labs		
COMM 1315	Public Speaking Credit Hours: 3	
PSYC 1100	Learning Frameworks Credit Hours: 1	

College Core Requirements	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3
SPED 2301	Introduction to Special Populations Credit Hours: 3
SPED 4300	Survey of Exceptionalities Credit Hours: 3
TCED 1301	Exploring Teaching as a Profession Credit Hours: 3

Major Requirements

Major Requirements	
Choose two Natural Science courses in	addition to the University Core
GEOG 1301	Modern Physical Geography Credit Hours: 3
GEOG 1302	Global Geography Credit Hours: 3
GEOG 1303	World Regional Geography Credit Hours: 3
HIST 2301	Texas History Credit Hours: 3
HIST 3325	Colonial America Credit Hours: 3
HIST 3327	The New American Nation Credit Hours: 3
HIST 3330	Civil War and Reconstruction Credit Hours: 3
LLLS 4311	Survey of Reading Credit Hours: 3
LLLS 4345	Survey of Children's Literature Credit Hours: 3
LLLS 4351	Reading in Content Subjects Credit Hours: 3
MATH 1350	Mathematics for Teachers I Credit Hours: 3
MATH 1351	Mathematics for Teachers II Credit Hours: 3

TCED 4102	Secondary (4-8 and 7-12) Content Teacher Seminar Credit Hours: 1	
TCED 4304	Creating Positive Learning Environments in 4-8 Credit Hours: 3	
Choose one from the following list:		
Choose one from the following li	st:	
Choose one from the following li	Writing for Education Credit Hours: 3	

Pedagogy Requirements

Courses	
TCED 4331	Social Studies Methods for Grades 4-8 Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3
TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9

Additional Information

- GPA of 2.500 or higher required in GEOG and HIST coursework.
- Grade of B- or better required in WRIT 3304/3307.
- All courses outside the University Core must be C- or better. Check prerequisites before enrolling in any courses.
- In the 12 hours (core included) of Science, students must have at least one course in each of the following areas: Biology, Earth Science and Physics/Chemistry/Astronomy.

Legal Studies B.S.

The undergraduate degree in Legal Studies leads to the bachelor of science. It is the goal of the Legal Studies program to introduce students to the study of law and the workings of the American legal system as a foundation for a career as a paralegal professional or the more advanced study of law in a law school environment.

The degree program has three principal educational objectives:

- To educate students in the legal principles that underpin substantive and procedural areas of law such as torts, family law, probate, criminal law, the law of real property, dispute resolution, and civil litigation;
- 2. To equip students with the legal research, writing and critical thinking skills necessary to foster their continuing independent study of the law beyond the classroom; and
- 3. To raise student's awareness and understanding of the important role that the system of trial by jury, the appellate process and dispute resolution play in preserving the governing principles of a democratic society.

University Core Requirements (42 Hours)

A minimum of 60 Upper-Level (33XX and 43XX) hours and a total of 120 hours are required for the baccalaureate degree in Legal Studies.

Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
MATH 1314	College Algebra Credit Hours: 3	
Additional Information		

May replace MATH 1324 with an additional WRIT or Foreign Language (beyond WRIT 1301 & WRIT 1302)

May replace MATH 1325 with any 3-hour elective course

Life and Physical Sciences (6 hours)	
Choose two course from the approved list	
ASTR 1303	Stars and Galaxies Credit Hours: 3
ASTR 1304	Solar System Credit Hours: 3
BIOL 1306	Biology for Science Majors I Credit Hours: 3
BIOL 1307	Biology for Science Majors II Credit Hours: 3
BIOL 1308	Biology for Non-Science Majors I
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3
BIOL 2301	Anatomy & Physiology I Credit Hours: 3
BIOL 2302	Anatomy & Physiology II Credit Hours: 3
CHEM 1305	Introductory Chemistry I Credit Hours: 3
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II Credit Hours: 3
ENSC 1301	Environmental Science I Credit Hours: 3
ENSC 1302	Environmental Science II Credit Hours: 3
GEOL 1303	Physical Geology Credit Hours: 3
GEOL 1304	Historical Geology Credit Hours: 3
PHYS 1301	College Physics I Credit Hours: 3
PHYS 1302	College Physics II Credit Hours: 3
PHYS 2325	University Physics I Credit Hours: 3
PHYS 2326	University Physics II Credit Hours: 3
Language, Philosophy and Culture (3 hours)	
Choose one course from the approved list	

HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
Choose one course from the approved li	st	
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
American History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6	6 hours)	
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social and Behavioral Sciences (3 hours)		
ANTH 2346	General Anthropology Credit Hours: 3	
ECON 2301	Principles of Macroeconomics Credit Hours: 3	
ECON 2302	Principles of Microeconomics Credit Hours: 3	
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3	
GEOG 1303	World Regional Geography Credit Hours: 3	
PSYC 2301	Introduction to Psychology Credit Hours: 3	
SOCI 1301	Introduction to Sociology	

Credit Hours: 3

Additional Information Can be ECON 2301 Component Area Option (6 hours) Two 1- hour Life and Physical Science Labs COMM 1315 Public Speaking Credit Hours: 3 PSYC 1100 Learning Frameworks Credit Hours: 1

College Core Requirements (18 hours)

The following courses, or their approved equivalents, together with accounting and economics principles and business law, constitute the business core and are required of all business students. No more than 6 hours of grades in the range of D+, D or D- are permitted in Upper-Level (33XX and 43XX) Business Core Requirements

Core Requirements (18 hours)	
ACCT 2301	Principles of Accounting I - Financial Credit Hours: 3
ACCT 2302	Principles of Accounting II- Managerial Credit Hours: 3
ECON 2301	Principles of Macroeconomics Credit Hours: 3
ECON 2302	Principles of Microeconomics Credit Hours: 3
LEGL 2301	Legal Environment of Business Credit Hours: 3
MATH 1324	Mathematics for Business and Social Sciences. Credit Hours: 3

Additional Information

May replace ACCT 2302 with an additional WRIT or Foreign Language not used to satisfy any other core curriculum requirement.

May replace MATH 1324 Finite Math with 3 hours of foreign language or English beyond the core curriculum requirements.

Major Requirements (36 hours)

All courses within the Major Requirements must be completed with a grade of C- or better. A minimum cumulative GPA of 2.0 or higher is required to graduate.

Major Requirements (36 hours)	
LEGL 3307	Legal Writing and Appellate Process Credit Hours: 3
LEGL 3313	Introduction to Law and the American Legal System Credit Hours: 3
LEGL 3351	Legal Research Credit Hours: 3
LEGL 3353	Introduction to the Texas Rules of Civil Procedure Credit Hours: 3
LEGL 4352	Family Law and Procedure Credit Hours: 3
LEGL 4354	Property Transactions Credit Hours: 3
LEGL 4355	Criminal Law and Procedure Credit Hours: 3
LEGL 4356	Torts Credit Hours: 3
LEGL 4359	Wills, Probate and Estate Administration Credit Hours: 3
LEGL 4375	Professional Development for Legal Studies Students Credit Hours: 3

Elective Requirements (30 hours)

Elective Requirement (3 hours)	
ENVR 4315	Introduction to Environmental Law Credit Hours: 3
MGMT 4326	Effective Negotiations Credit Hours: 3

or any Upper-Level (33xx or 43xx) of the following rubric: ACCT, FINC, ISAM, MGMT, MKTG

Elective Requirement (3 hours)

Choose one: Any Upper–Level (33XX or 43XX) of the following rubric: ARTS, HIST, HUMN, SOCI, POLS

Elective Requirement (6 hours)	
Choose two of the following:	
WRIT 3307	Advanced Writing Credit Hours: 3
WRIT 3312	Written Communications in Business Credit Hours: 3
WRIT 3315	Advanced Technical Writing Credit Hours: 3

Major Electives (6 hours)

Choose two of any Upper-Level (33XX or 43XX) LEGL rubric beyond the major requirements.

General Electives (12 hours)

Choose four of any Upper–Level (33XX or 43XX) courses offered by the Colleges of Business, Human Sciences & Humanities, Science & Computer Engineering, or Education

Literature B.A.

The undergraduate major in Literature leads to the Bachelor of Arts (B.A.) degree. Students in the major may select from a wide range of courses in American, British, European, or World literature. Students who plan to teach English in secondary schools should select this major with a certification option. For information, contact the HSH Office of Advising.

University Core Requirements (42 Hours)

Communication (6 hours)

WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
Choose ONE of the following courses.		
MATH 1314	College Algebra Credit Hours: 3	
MATH 1332	Contemporary Mathematics Credit Hours: 3	
Life and Physical Sciences (6 hours)		
Choose TWO of the following courses.		
ASTR 1303	Stars and Galaxies Credit Hours: 3	
ASTR 1304	Solar System Credit Hours: 3	
BIOL 1306	Biology for Science Majors I Credit Hours: 3	
BIOL 1307	Biology for Science Majors II Credit Hours: 3	
BIOL 1308	Biology for Non-Science Majors I	
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3	
BIOL 2301	Anatomy & Physiology I Credit Hours: 3	
BIOL 2302	Anatomy & Physiology II Credit Hours: 3	
CHEM 1305	Introductory Chemistry I Credit Hours: 3	
CHEM 1311	General Chemistry I	
CHEM 1312	General Chemistry II Credit Hours: 3	
ENSC 1301	Environmental Science I Credit Hours: 3	
ENSC 1302	Environmental Science II Credit Hours: 3	
GEOL 1303	Physical Geology Credit Hours: 3	
GEOL 1304	Historical Geology Credit Hours: 3	
PHYS 1301	College Physics I Credit Hours: 3	

PHYS 2325 University Physics I Credit Hours: 3 PHYS 2326 University Physics II Credit Hours: 3 Language, Philosophy and Culture (3 hours) Choose ONE of the following courses. HUMN 1301 Humanities Credit Hours: 3 LITR 2341 Literature and Experience Credit Hours: 3 PHIL 1301 Introduction to Philosophy Credit Hours: 3 WGST 1301 Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3 Creative Arts (3 Hours)		
Credit Hours: 3 Language, Philosophy and Culture (3 hours) Choose ONE of the following courses. HUMN 1301 Humanities Credit Hours: 3 Literature and Experience Credit Hours: 3 PHIL 1301 Introduction to Philosophy Credit Hours: 3 WGST 1301 Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3		
Choose ONE of the following courses. HUMN 1301 Humanities Credit Hours: 3 LITR 2341 Literature and Experience Credit Hours: 3 PHIL 1301 Introduction to Philosophy Credit Hours: 3 WGST 1301 Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3		
HUMN 1301 Humanities Credit Hours: 3 Literature and Experience Credit Hours: 3 PHIL 1301 Introduction to Philosophy Credit Hours: 3 WGST 1301 Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3		
Credit Hours: 3 LITR 2341 Literature and Experience Credit Hours: 3 PHIL 1301 Introduction to Philosophy Credit Hours: 3 WGST 1301 Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3		
Credit Hours: 3 PHIL 1301 Introduction to Philosophy Credit Hours: 3 WGST 1301 Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3		
WGST 1301 Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3		
Women's and Gender Studies Credit Hours: 3		
Creative Arts (3 Hours)		
ordative Arts (o riburs)		
Choose ONE of the following courses.		
ARTS 1303 World Art Survey I Credit Hours: 3		
ARTS 1304 World Art Survey II Credit Hours: 3		
ARTS 2379 Arts and the Child Credit Hours: 3		
U.S. History (6 hours)		
HIST 1301 United States History I Credit Hours: 3		
HIST 1302 United States History II Credit Hours: 3		
Government/ Political Science (6 hours)		
POLS 2305 Federal Government Credit Hours: 3		
POLS 2306 Texas Government Credit Hours: 3		
Social Behavioral Sciences (3 hours)		
Choose ONE of the following courses.		
ANTH 2346 General Anthropology Credit Hours: 3		
CRIM 1301 Introduction to Criminal Justice Credit Hours: 3		

ECON 2301	Principles of Macroeconomics Credit Hours: 3	
ECON 2302	Principles of Microeconomics Credit Hours: 3	
GEOG 1303	World Regional Geography Credit Hours: 3	
PSYC 2301	Introduction to Psychology Credit Hours: 3	
SOCI 1301	Introduction to Sociology Credit Hours: 3	
Public Speaking (3 hours)		
COMM 1315	Public Speaking Credit Hours: 3	
Component Area Options (3 hours)		
Two 1- hour Life and Physical Science Labs - required co-requisites for the chosen science courses.		
PSYC 1100	Learning Frameworks Credit Hours: 1	

College Core Requirements (3 hours)

48 hours of upper-level credit must be "C" or better.

Core Requirements (3 hours)	
WRIT 3307	Advanced Writing Credit Hours: 3

Major Requirements (36 hours)

Choose ONE of the following courses.	
HUMN 3374	Critical Inquiry Credit Hours: 3
HUMN 3375	Ideas in Transition Credit Hours: 3
PHIL 3331	Ethics Credit Hours: 3
PHIL 4314	The Great Philosophers I Credit Hours: 3
PHIL 4315	The Great Philosophers II Credit Hours: 3
Choose ONE of the following courses.	

ANTH 3311 ANTH 4352 ANTH 4354 ANTH 4355 ANTH 4355 ANTH 4356 ANTH 4366 ANTH 4366			
PSYC 3331 Theories of Personality Credit Hours: 3 PSYC 4311 Social Psychology Credit Hours: 3 SOCI 4312 Social Structure: Class, Power, and Status Credit Hours: 3 SOCI 4312 Theories of Society Credit Hours: 3 SOCI 4322 Theories of Society Credit Hours: 3 WGST 1302 Perspectives in Women's and Gender Studies Credit Hours: 3 Literature Courses Litra 3301 Literary Studies: Genres and Critical Perspectives Credit Hours: 3 2300-level British, American, or World courses Choose TWO 2300 level courses (LITR 2321 and LITR 2326 recommended). LITR 2321 British Literature Credit Hours: 3 LITR 2326 American Literature Credit Hours: 3 American Literature Credit Hours: 3 LITR 4338 The American Renaissance Credit Hours: 3 LITR 4334 The American Renaissance Credit Hours: 3 LITR 4334 The American Novel Credit Hours: 3 LITR 4335 American Modernism Credit Hours: 3 American Literature (2 of 2) Choose ONE of the following courses. LITR 4326 Early American Literature Credit Hours: 3 LITR 4336 Contemporary American Literature	ANTH 3311		
Credit Hours: 3 PSYC 4311 Social Psychology Credit Hours: 3 SOCI 4312 Social Structure: Class, Power, and Status Credit Hours: 3 SOCI 4322 Theories of Society Credit Hours: 3 WGST 1302 Perspectives in Women's and Gender Studies Credit Hours: 3 Literature Courses Litra 3301 Literature Studies: Genres and Critical Perspectives Credit Hours: 3 2300-level British, American, or World courses Choose TWO 2300 level courses (LITR 2321 and LITR 2326 recommended). LITR 2321 British Literature Credit Hours: 3 LITR 2326 American Literature (1 of 2) Choose ONE of the following courses. LITR 4328 The American Renaissance Credit Hours: 3 LITR 4330 American Realism and Naturalism Credit Hours: 3 LITR 4334 The American Novel Credit Hours: 3 LITR 4335 American Modernism Credit Hours: 3 American Literature (2 of 2) Choose ONE of the following courses. LITR 4326 Early American Literature Credit Hours: 3 LITR 4326 Early American Literature Credit Hours: 3 LITR 4336 Contemporary American Literature	ANTH 4352		
Credit Hours: 3 SOCI 4312 Social Structure: Class, Power, and Status Credit Hours: 3 SOCI 4322 Theories of Society Credit Hours: 3 WGST 1302 Perspectives in Women's and Gender Studies Credit Hours: 3 Literature Courses LITR 3301 Literary Studies: Genres and Critical Perspectives Credit Hours: 3 2300-level British, American, or World courses Choose TWO 2300 level courses (LITR 2321 and LITR 2326 recommended). LITR 2321 British Literature Credit Hours: 3 LITR 2326 American Literature (1 of 2) Choose ONE of the following courses. LITR 4328 The American Renaissance Credit Hours: 3 LITR 4330 American Realism and Naturalism Credit Hours: 3 LITR 4334 The American Novel Credit Hours: 3 LITR 4335 American Modernism Credit Hours: 3 American Literature (2 of 2) Choose ONE of the following courses. LITR 4326 Early American Literature Credit Hours: 3 LITR 4326 Contemporary American Literature Credit Hours: 3	PSYC 3331	•	
Status Credit Hours: 3 SOCI 4322 Theories of Society Credit Hours: 3 WGST 1302 Perspectives in Women's and Gender Studies Credit Hours: 3 Literature Courses Literaty Studies: Genres and Critical Perspectives Credit Hours: 3 2300-level British, American, or World courses Choose TWO 2300 level courses (LITR 2321 and LITR 2326 recommended). LITR 2321 British Literature Credit Hours: 3 LITR 2326 American Literature Credit Hours: 3 American Literature (1 of 2) Choose ONE of the following courses. LITR 4328 The American Renaissance Credit Hours: 3 LITR 4334 The American Novel Credit Hours: 3 LITR 4335 American Modernism Credit Hours: 3 American Literature (2 of 2) Choose ONE of the following courses. LITR 4326 Early American Literature Credit Hours: 3	PSYC 4311		
WGST 1302 Perspectives in Women's and Gender Studies Credit Hours: 3 Literature Courses LiTR 3301 Literary Studies: Genres and Critical Perspectives Credit Hours: 3 2300-level British, American, or World courses Choose TWO 2300 level courses (LITR 2321 and LITR 2326 recommended). LITR 2321 British Literature Credit Hours: 3 LITR 2326 American Literature Credit Hours: 3 American Literature (1 of 2) Choose ONE of the following courses. LITR 4328 The American Realism and Naturalism Credit Hours: 3 LITR 4330 American Realism and Naturalism Credit Hours: 3 LITR 4334 The American Novel Credit Hours: 3 LITR 4335 American Modernism Credit Hours: 3 LITR 4336 Early American Literature Credit Hours: 3	SOCI 4312	Status	
Literature Courses Literature Courses Literature Courses Literature Studies: Genres and Critical Perspectives Credit Hours: 3 2300-level British, American, or World courses Choose TWO 2300 level courses (LITR 2321 and LITR 2326 recommended). LITR 2321 British Literature Credit Hours: 3 LITR 2326 American Literature Credit Hours: 3 American Literature (1 of 2) Choose ONE of the following courses. LITR 4328 The American Renaissance Credit Hours: 3 LITR 4330 American Realism and Naturalism Credit Hours: 3 LITR 4334 The American Novel Credit Hours: 3 LITR 4335 American Modernism Credit Hours: 3 American Literature (2 of 2) Choose ONE of the following courses. LITR 4326 Early American Literature Credit Hours: 3	SOCI 4322	· ·	
Literary Studies: Genres and Critical Perspectives Credit Hours: 3 2300-level British, American, or World courses Choose TWO 2300 level courses (LITR 2321 and LITR 2326 recommended). LITR 2321 British Literature Credit Hours: 3 LITR 2326 American Literature (1 of 2) Choose ONE of the following courses. LITR 4328 The American Renaissance Credit Hours: 3 LITR 4330 American Realism and Naturalism Credit Hours: 3 LITR 4334 The American Novel Credit Hours: 3 LITR 4335 American Literature (2 of 2) Choose ONE of the following courses. LITR 4326 Early American Literature Credit Hours: 3 LITR 4336 Contemporary American Literature	WGST 1302	Studies	
Perspectives Credit Hours: 3 2300-level British, American, or World courses Choose TWO 2300 level courses (LITR 2321 and LITR 2326 recommended). LITR 2321 British Literature Credit Hours: 3 LITR 2326 American Literature (1 of 2) Choose ONE of the following courses. LITR 4328 The American Renaissance Credit Hours: 3 LITR 4330 American Realism and Naturalism Credit Hours: 3 LITR 4334 The American Novel Credit Hours: 3 LITR 4335 American Modernism Credit Hours: 3 American Literature (2 of 2) Choose ONE of the following courses. LITR 4326 Early American Literature Credit Hours: 3	Literature Courses		
Choose TWO 2300 level courses (LITR 2321 and LITR 2326 recommended). LITR 2321 British Literature Credit Hours: 3 LITR 2326 American Literature (1 of 2) Choose ONE of the following courses. LITR 4328 The American Renaissance Credit Hours: 3 LITR 4330 American Realism and Naturalism Credit Hours: 3 LITR 4334 The American Novel Credit Hours: 3 LITR 4335 American Modernism Credit Hours: 3 American Literature (2 of 2) Choose ONE of the following courses. LITR 4326 Early American Literature Credit Hours: 3 LITR 4336 Contemporary American Literature	LITR 3301	Perspectives	
LITR 2321 British Literature Credit Hours: 3 LITR 2326 American Literature (1 of 2) Choose ONE of the following courses. LITR 4328 The American Renaissance Credit Hours: 3 LITR 4330 American Realism and Naturalism Credit Hours: 3 LITR 4334 The American Novel Credit Hours: 3 LITR 4335 American Modernism Credit Hours: 3 American Literature (2 of 2) Choose ONE of the following courses. LITR 4326 Early American Literature Credit Hours: 3 LITR 4336 Contemporary American Literature	2300-level British, American, or World courses		
Credit Hours: 3 LITR 2326 American Literature (1 of 2) Choose ONE of the following courses. LITR 4328 The American Renaissance Credit Hours: 3 LITR 4330 American Realism and Naturalism Credit Hours: 3 LITR 4334 The American Novel Credit Hours: 3 LITR 4335 American Modernism Credit Hours: 3 LITR 4326 Early American Literature (2 of 2) LITR 4336 Contemporary American Literature	Choose TWO 2300 level courses (LITR 2321 and LITR 2326 recommended).		
American Literature (1 of 2) Choose ONE of the following courses. LITR 4328 The American Renaissance Credit Hours: 3 LITR 4330 American Realism and Naturalism Credit Hours: 3 LITR 4334 The American Novel Credit Hours: 3 LITR 4335 American Modernism Credit Hours: 3 American Literature (2 of 2) Choose ONE of the following courses. LITR 4326 Early American Literature Credit Hours: 3 LITR 4336 Contemporary American Literature	LITR 2321		
Choose ONE of the following courses. LITR 4328 The American Renaissance Credit Hours: 3 LITR 4330 American Realism and Naturalism Credit Hours: 3 LITR 4334 The American Novel Credit Hours: 3 LITR 4335 American Modernism Credit Hours: 3 American Literature (2 of 2) Choose ONE of the following courses. LITR 4326 Early American Literature Credit Hours: 3 LITR 4336 Contemporary American Literature	LITR 2326		
LITR 4328 The American Renaissance Credit Hours: 3 LITR 4330 American Realism and Naturalism Credit Hours: 3 LITR 4334 The American Novel Credit Hours: 3 LITR 4335 American Modernism Credit Hours: 3 American Literature (2 of 2) Choose ONE of the following courses. LITR 4326 Early American Literature Credit Hours: 3 LITR 4336 Contemporary American Literature	American Literature (1 of 2)		
Credit Hours: 3 LITR 4330 American Realism and Naturalism Credit Hours: 3 LITR 4334 The American Novel Credit Hours: 3 LITR 4335 American Modernism Credit Hours: 3 American Literature (2 of 2) Choose ONE of the following courses. LITR 4326 Early American Literature Credit Hours: 3 LITR 4336 Contemporary American Literature	Choose ONE of the following courses.		
Credit Hours: 3 LITR 4334 The American Novel Credit Hours: 3 LITR 4335 American Modernism Credit Hours: 3 American Literature (2 of 2) Choose ONE of the following courses. LITR 4326 Early American Literature Credit Hours: 3 LITR 4336 Contemporary American Literature	LITR 4328		
Credit Hours: 3 LITR 4335 American Modernism Credit Hours: 3 American Literature (2 of 2) Choose ONE of the following courses. LITR 4326 Early American Literature Credit Hours: 3 LITR 4336 Contemporary American Literature	LITR 4330		
Credit Hours: 3 American Literature (2 of 2) Choose ONE of the following courses. LITR 4326 Early American Literature Credit Hours: 3 LITR 4336 Contemporary American Literature	LITR 4334		
Choose ONE of the following courses. LITR 4326 Early American Literature Credit Hours: 3 LITR 4336 Contemporary American Literature	LITR 4335		
LITR 4326 Early American Literature Credit Hours: 3 LITR 4336 Contemporary American Literature	American Literature (2 of 2)		
Credit Hours: 3 LITR 4336 Contemporary American Literature	Choose ONE of the following courses.		
	LITR 4326	•	
	LITR 4336		

LITR 4338	American Minority Literature Credit Hours: 3	
LITR 4340	American Immigrant Literature Credit Hours: 3	
British Literature		
Choose any TWO LITR 3300/4300 level courses in British Literature including at least ONE from the list below.		
LITR 3361	Shakespeare Credit Hours: 3	
LITR 4312	Chaucer Credit Hours: 3	
LITR 4316	16th- and 17th-Century British	

World Literature

Choose ONE LITR 3300/4300 level course in World Literature. This course may not satisfy any other degree requirement.

Literature Credit Hours: 3

Pre-1800 Literature

Choose ONE LITR 3300/4300 level course in Pre-1800 Literature. This course may not satisfy any other degree requirement.

Literature electives

Choose THREE 3300/4300 level Literature courses. These courses may not satisfy any other degree requirements.

Electives (33 hours)

Lower-level electives (12 hours)Upper-level electives (21 hours) – any 3300/4300 level courses at UHCL that are not used to satisfy any other degree requirements.

Literature B.A. with English Language Arts and Reading 4-8 Certification

Note: This degree requires a minimum of 136 credit hours.

University Core Requirements (42 Hours)

Communication (6 hours)

WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
Choose ONE of the following courses.		
MATH 1314	College Algebra Credit Hours: 3	
MATH 1332	Contemporary Mathematics Credit Hours: 3	
Life and Physical Sciences (6 hours)		
Choose TWO of the following courses.		
ASTR 1303	Stars and Galaxies Credit Hours: 3	
ASTR 1304	Solar System Credit Hours: 3	
BIOL 1306	Biology for Science Majors I Credit Hours: 3	
BIOL 1307	Biology for Science Majors II Credit Hours: 3	
BIOL 1308	Biology for Non-Science Majors I	
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3	
BIOL 2301	Anatomy & Physiology I Credit Hours: 3	
BIOL 2302	Anatomy & Physiology II Credit Hours: 3	
CHEM 1305	Introductory Chemistry I Credit Hours: 3	
CHEM 1311	General Chemistry I	
CHEM 1312	General Chemistry II Credit Hours: 3	
ENSC 1301	Environmental Science I Credit Hours: 3	
ENSC 1302	Environmental Science II Credit Hours: 3	
GEOL 1303	Physical Geology Credit Hours: 3	
GEOL 1304	Historical Geology Credit Hours: 3	
PHYS 1301	College Physics I Credit Hours: 3	

PHYS 1302	College Physics II Credit Hours: 3	
PHYS 2325	University Physics I Credit Hours: 3	
PHYS 2326	University Physics II Credit Hours: 3	
Language, Philosophy and Culture (3 hours)		
Choose ONE of the following courses.		
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
Choose ONE of the following courses.		
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
U.S. History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social Behavioral Sciences (3 hours)		
Choose ONE of the following courses.		
ANTH 2346	General Anthropology Credit Hours: 3	
CRIM 1301	Introduction to Criminal Justice	

Credit Hours: 3

Principles of Macroeconomics Credit Hours: 3		
Principles of Microeconomics Credit Hours: 3		
World Regional Geography Credit Hours: 3		
Introduction to Psychology Credit Hours: 3		
Introduction to Sociology Credit Hours: 3		
Public Speaking (3 hours)		
Public Speaking Credit Hours: 3		
Component Area Options (3 hours)		
Two 1- hour Life and Physical Science Labs - required co-requisites for the chosen science courses.		
Learning Frameworks Credit Hours: 1		

College of Human Sciences and Humanities Core Requirements (9 hours)

48 hours of upper–level credit must be "C" or better.

Human Science Requirement (3 hours)	
Choose ONE of the following courses.	
ANTH 3311	Contemporary Cultural Anthropology Credit Hours: 3
ANTH 4352	World Prehistory and Archaeology Credit Hours: 3
PSYC 3331	Theories of Personality Credit Hours: 3
PSYC 4311	Social Psychology Credit Hours: 3
SOCI 4312	Social Structure: Class, Power, and Status Credit Hours: 3
SOCI 4322	Theories of Society Credit Hours: 3
WGST 1302	Perspectives in Women's and Gender Studies Credit Hours: 3

Core Requirement (3 hours)		
Choose ONE of the following courses.		
WRIT 3305	Writing for the Humanities Credit Hours: 3	
WRIT 3307	Advanced Writing Credit Hours: 3	
Additional Information Grade of "B-" or better is required.		
Humanities Requirements (3 hours)		
Choose ONE of the following courses.		
HUMN 3374	Critical Inquiry Credit Hours: 3	
HUMN 3375	Ideas in Transition Credit Hours: 3	
PHIL 3331	Ethics Credit Hours: 3	
PHIL 4314	The Great Philosophers I Credit Hours: 3	
PHIL 4315	The Great Philosophers II Credit Hours: 3	

College of Education Core Requirements (18 hours)

Core Requirements	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3
SPED 2301	Introduction to Special Populations Credit Hours: 3
SPED 4300	Survey of Exceptionalities Credit Hours: 3
TCED 1301	Exploring Teaching as a Profession Credit Hours: 3

Teacher Education Program (TEP) Admission Requirements

 $\boldsymbol{\cdot}$ Completion of 60 semester credit hours.

- Completion of prerequisite coursework (EDUC 4310, INST 3313, and SILC 4315.)
- · Completion of public speaking requirement.
- Completion of Basic Skills in Reading, Mathematics, and Writing.
- 2.750 GPA overall or in the last 60 semester credit hours.
- Completion of 12 semester credit hours in the subject-specific content area for target teacher certification.
- Application for admission to the Teacher Education Program (TEP).

Major Requirements (55 hours)

2300-level American or British Literature course		
Choose TWO 2300 level courses (LITR 2321 and LITR 2326 recommended).		
LITR 2321	British Literature Credit Hours: 3	
LITR 2326	American Literature Credit Hours: 3	

American Literature

Choose ONE 3300/4300 level course in American Literature. This course may not satisfy any other degree requirement.

British Literature

Choose ONE 3300/4300 level course in British Literature. This course may not satisfy any other degree requirement.

British Literature (pre-1700)

Choose ONE 3300/4300 level course in pre-1700 British Literature. This course may not satisfy any other degree requirement.

World or Multicultural Literature

Choose ONE 3300/4300 level course in World or Multicultural Literature. This course may not satisfy any other degree requirement.

Pre-1800 Literature

Choose ONE 3300/4300 level course in Preo-1800 Literature. This course may not satisfy any other degree requirement.

Literature elective

Choose ONE 3300/4300 Literature course. This course may not satisfy any other degree requirement.

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Two natural science courses in addition to the university core.

LITR 3301	Literary Studies: Genres and Critical Perspectives Credit Hours: 3
LITR 3302	Principles of Composition Credit Hours: 3
LLLS 4311	Survey of Reading Credit Hours: 3
LLLS 4346	Teaching Language Arts in the 4-8 Classroom Credit Hours: 3
LLLS 4351	Reading in Content Subjects Credit Hours: 3
MATH 1350	Mathematics for Teachers I Credit Hours: 3
MATH 1351	Mathematics for Teachers II Credit Hours: 3
TCED 4102	Secondary (4-8 and 7-12) Content Teacher Seminar Credit Hours: 1
TCED 4304	Creating Positive Learning Environments in 4-8 Credit Hours: 3

Additional Information

GPA of 2.500 or higher required in LITR and LLLS coursework.

Pedagogy Requirements (12 hours)

Courses	
TCED 4378	Pre-Service Internship I Credit Hours: 3
TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9

Additional Information

- \cdot Enrollment in the courses listed above requires admission to the TEP.
- 3.000 GPA required in pedagogy coursework.
- TCED 4378 Pre-Service Internship I must be taken in the long semester immediately preceding the final semester.
- TCED 4978 Pre-Service Internship II must be taken in the final semester.

Teacher Certification Requirements

- Passing scores on the appropriate state assessments (Texas Examinations of Educator Standards [TExES] are required for recommendation for teacher certification.
 - 4-8 English Language Arts and Reading TEXES #117
 - EC-12 Pedagogy and Professional Responsibilities TEXES #160
- All courses outside the University Core must be "C-" or better unless otherwise stated.

Literature B.A. with English Language Arts and Reading 7-12 Certification

Note: This degree requires a minimum of 127 credit hours.

University Core Requirements (42 Hours)

Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
Choose ONE of the following courses.		
MATH 1314	College Algebra Credit Hours: 3	
MATH 1332	Contemporary Mathematics Credit Hours: 3	
Life and Physical Sciences (6 hours)		
Choose TWO of the following courses.		

ASTR 1303	Stars and Galaxies Credit Hours: 3	
ASTR 1304	Solar System Credit Hours: 3	
BIOL 1306	Biology for Science Majors I Credit Hours: 3	
BIOL 1307	Biology for Science Majors II Credit Hours: 3	
BIOL 1308	Biology for Non-Science Majors I	
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3	
BIOL 2301	Anatomy & Physiology I Credit Hours: 3	
BIOL 2302	Anatomy & Physiology II Credit Hours: 3	
CHEM 1305	Introductory Chemistry I Credit Hours: 3	
CHEM 1311	General Chemistry I	
CHEM 1312	General Chemistry II Credit Hours: 3	
ENSC 1301	Environmental Science I Credit Hours: 3	
ENSC 1302	Environmental Science II Credit Hours: 3	
GEOL 1303	Physical Geology Credit Hours: 3	
GEOL 1304	Historical Geology Credit Hours: 3	
PHYS 1301	College Physics I Credit Hours: 3	
PHYS 1302	College Physics II Credit Hours: 3	
PHYS 2325	University Physics I Credit Hours: 3	
PHYS 2326	University Physics II Credit Hours: 3	
Language, Philosophy and Culture (3 hours)		
Choose ONE of the following courses.		
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	

PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
Choose ONE of the following courses.		
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
U.S. History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social Behavioral Sciences (3 hours)		
Choose ONE of the following courses.		
ANTH 2346	General Anthropology Credit Hours: 3	
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3	
ECON 2301	Principles of Macroeconomics Credit Hours: 3	
ECON 2302	Principles of Microeconomics Credit Hours: 3	
GEOG 1303	World Regional Geography Credit Hours: 3	
PSYC 2301	Introduction to Psychology Credit Hours: 3	
SOCI 1301	Introduction to Sociology Credit Hours: 3	
Public Speaking (3 hours)		

COMM 1315	Public Speaking Credit Hours: 3	
Component Area Options (3 hours)		
Two 1- hour Life and PhysicalScience Labs - required co-requisites for the chosen science courses.		
PSYC 1100	Learning Frameworks Credit Hours: 1	

College of Human Sciences and Humanities Core Requirements (9 hours)

48 hours of upper-level credit must be "C" or better.

Human Science Requirement (3 hours)		
Choose ONE of the following courses.		
ANTH 3311	Contemporary Cultural Anthropology Credit Hours: 3	
ANTH 4352	World Prehistory and Archaeology Credit Hours: 3	
PSYC 3331	Theories of Personality Credit Hours: 3	
PSYC 4311	Social Psychology Credit Hours: 3	
SOCI 4312	Social Structure: Class, Power, and Status Credit Hours: 3	
SOCI 4322	Theories of Society Credit Hours: 3	
WGST 1302	Perspectives in Women's and Gender Studies Credit Hours: 3	
Core Requirement (3 hours)		
Choose ONE of the following co	urses.	
WRIT 3305	Writing for the Humanities Credit Hours: 3	
WRIT 3307	Advanced Writing Credit Hours: 3	
Additional Information Grade of "B-" or better is requi	red.	
Humanities Requirements (3 hours)		

Choose ONE of the following courses.	
HUMN 3374	Critical Inquiry Credit Hours: 3
HUMN 3375	Ideas in Transition Credit Hours: 3
PHIL 3331	Ethics Credit Hours: 3
PHIL 4314	The Great Philosophers I Credit Hours: 3
PHIL 4315	The Great Philosophers II Credit Hours: 3

College of Education Core Requirements (18 hours)

Core Requirements	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3
SPED 2301	Introduction to Special Populations Credit Hours: 3
SPED 4300	Survey of Exceptionalities Credit Hours: 3
TCED 1301	Exploring Teaching as a Profession Credit Hours: 3

Teacher Education Program (TEP) Admission Requirements

- Completion of 60 semester credit hours.
- Completion of prerequisite coursework (EDUC 4310, INST 3313, and SILC 4315.)
- · Completion of public speaking requirement.
- Completion of Basic Skills in Reading, Mathematics, and Writing.
- 2.750 GPA overall or in the last 60 semester credit hours.
- Completion of 12 semester credit hours in the subject-specific content area for target teacher certification.

 Application for admission to the Teacher Education Program (TEP).

Major Requirements (46 hours)

2300-level American or British Literature courses Choose TWO 2300 level courses (LITR 2321 and LITR 2326 recommended). LITR 2321 British Literature Credit Hours: 3 LITR 2326 American Literature Credit Hours: 3

American Literature

Choose ONE 3300/4300 level course in American Literature. This course may not satisfy any other degree requirement.

British Literature

Choose ONE 3300/4300 level course in American Literature. This course may not satisfy any other degree requirement.

World or Multicultural Literature

Choose ONE 3300/4300 level course in World or Multicultural Literature. This course may not satisfy any other degree requirement.

Pre-1800 Literature

Choose ONE 3300/4300 level course in pre-1800 Literature. This course may not satisfy any other degree.

Literature electives

Additional Courses

Choose TWO 3300/4300 LITR level courses. These courses may not satisfy any other degree requirements.

LITR 3301	Literary Studies: Genres and Critical Perspectives Credit Hours: 3
LITR 3302	Principles of Composition Credit Hours: 3

LITR 3361

Shakespeare
Credit Hours: 3

LLLS 4313

Corrective and Remedial Reading
Credit Hours: 3

LLLS 4332

Diagnostic and Prescriptive Reading
Credit Hours: 3

LLLS 4352

Young Adult Literature and Reading
Credit Hours: 3

TCED 4102	Secondary (4-8 and 7-12) Content Teacher Seminar
	Credit Hours: 1
TCED 4306	Creating Positive Learning Environments in 7-12 Credit Hours: 3

Additional Information

GPA of 2.500 or higher is required in LITR and LLLS coursework.

Pedagogy Requirements (15 hours)

Courses	
LLLS 4364	Methods in Secondary English/ Language Arts Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3
TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9

Additional Information

- Enrollment in the courses listed above requires admission to the TEP.
- 3.000 GPA required in pedagogy coursework.
- TCED 4378 Pre-Service Internship I must be taken in the long semester immediately preceding the final semester.
- \cdot TCED 4978 Pre–Service Internship II must be taken in the final semester.

Teacher Certification Requirements

- Passing scores on the appropriate state assessments (Texas Examinations of Educator Standards [TExES] are required for recommendation for teacher certification.
 - 7-12 English Language Arts and Reading TEXES #231
 - EC-12 Pedagogy and Professional Responsibilities TEXES #160
- All courses outside the University Core must be "C-" or better unless otherwise stated.

Management B.S.

University Core Requirements (42 Hours)

Develop interpersonal skills, cultivate decisionmaking skills and start thinking like an entrepreneur. The skills you acquire with your Bachelor of Science in Management from University of Houston-Clear Lake can be applied to areas like personnel management, organizational behavior, production, international and small business, healthcare, government agencies, financial institutions, hospitality, retail or education. Learn the foundations of management and select area of specialization within the context of leadership, human resource management or environmental management. Regardless of your point of entry into the business world, your coursework will help you acquire the essential skills in operations management and quality control, business ethics and more.

The degree in Management leads to the bachelor of science. A minimum of 57 Upper-Level (33XX and 43XX) hours and a total of 120 hours are required for the baccalaureate degree. A minimum cumulative GPA of 2.0 or higher is required to graduate.

Communication (6 hours)	
WRIT 1301	Composition I Credit Hours: 3
WRIT 1302	Composition II Credit Hours: 3
Additional Information Grades must be C- or higher.	
Mathematics (3 hours)	

MATH 1324	Mathematics for Business and Social Sciences. Credit Hours: 3	
Additional Information Grade must be C- or higher.		
Life and Physical Sciences	(6 hours)	
Choose two course from the app	roved list	
ASTR 1303	Stars and Galaxies Credit Hours: 3	
ASTR 1304	Solar System Credit Hours: 3	
BIOL 1306	Biology for Science Majors I Credit Hours: 3	
BIOL 1307	Biology for Science Majors II Credit Hours: 3	
BIOL 1308	Biology for Non-Science Majors I	
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3	
BIOL 2301	Anatomy & Physiology I Credit Hours: 3	
BIOL 2302	Anatomy & Physiology II Credit Hours: 3	
CHEM 1305	Introductory Chemistry I Credit Hours: 3	
CHEM 1311	General Chemistry I	
CHEM 1312	General Chemistry II Credit Hours: 3	
ENSC 1301	Environmental Science I Credit Hours: 3	
ENSC 1302	Environmental Science II Credit Hours: 3	
GEOL 1303	Physical Geology Credit Hours: 3	
GEOL 1304	Historical Geology Credit Hours: 3	
PHYS 1301	College Physics I Credit Hours: 3	
PHYS 1302	College Physics II Credit Hours: 3	
PHYS 2325	University Physics I Credit Hours: 3	
PHYS 2326	University Physics II	

Credit Hours: 3

Language, Philosophy and Culture (3 hours)		
Choose one course from the approved l	ist	
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
Choose one course from the approved l	ist	
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
American History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)	
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social and Behavioral Sciences (3 hours)		
ECON 2301	Principles of Macroeconomics Credit Hours: 3	
Additional Information		
Other courses may meet this requirement, however, ECON 2301 will still be required for all Business majors.		
Component Area Option (6 hours)		
Two 1- hour Life and Physical Science Labs		
COMM 1315	Public Speaking Credit Hours: 3	

PSYC 1100	Learning Frameworks
	Credit Hours: 1

College Core Requirements (48 hours)

The following courses, or their approved equivalents, together with accounting and economics principles and business law, constitute the business core and are required of all business students. No more than 6 hours of grades in the range of D+, D or D- are permitted in Upper-Level (33XX amd 43XX) Business Core Requirements.

Core Requirements for Business Majors (48 hours)	
ACCT 2301	Principles of Accounting I - Financial Credit Hours: 3
ACCT 2302	Principles of Accounting II- Managerial Credit Hours: 3
BAPA 1301	Business Principles Credit Hours: 3
ECON 2301	Principles of Macroeconomics Credit Hours: 3
ISAM 1305	Business Computer Applications Credit Hours: 3
LEGL 2301	Legal Environment of Business Credit Hours: 3
MATH 1325	Calculus for Business and Social Sciences Credit Hours: 3
DSCI 3321	Statistics I Credit Hours: 3
DSCI 3331	Quantitative Methods for Management Credit Hours: 3
ECON 3311	Money and Banking Credit Hours: 3
FINC 3331	Business Finance Credit Hours: 3
ISAM 3303	Information Systems for Management Credit Hours: 3
MGMT 3301	Management Theory and Practice Credit Hours: 3

MGMT 4312	Strategic Management (Capstone) Credit Hours: 3
MKTG 3301	Principles of Marketing Credit Hours: 3
WRIT 3312	Written Communications in Business Credit Hours: 3
Additional Information MGMT 4312 Capstone courserequires permission.	

Major Requirements (21 hours)

All courses within the Major Requirements must be completed with a grade of C- or better. A minimum cumulative GPA of 2.0 or higher is required to graduate. Management majors may take any 15 hours of Upper-Level (33XX and 43XX) management electives or select one of the four of the concentrations offered.

Major Requirements (21 hours)	
2 courses (6 hours)	
MGMT 3331	Human Resource Management Credit Hours: 3
MGMT 4354	Organizational Behavior Theory and Application Credit Hours: 3

Choose any 5 Upper-Level (33XX or 43XX) MGMT courses beyond those already required (15 hours)OR Complete one of the Management Concentrations (15 hours)

Elective Requirements (9 hours)

Elective Requirements (9 hours)

Any 3 Upper-Level (33XX or 43XX) courses offered by Colleges of Business, Human Sciences & Humanities & Computer Engineering or Education

Management Concentrations (optional) 1) Entrepreneurship & Small Business Concentration (15 hours)

Entrepreneurship & Small Business Concentration (15 hours)	
2 courses (6 hours)	
MGMT 4336	Principles of Entrepreneurship Credit Hours: 3
MGMT 4337	Applied Small and Family Business Management Credit Hours: 3

Choose 3 courses from list (9 hours):	
MKTG 4333	Marketing for Entrepreneurs Credit Hours: 3
MGMT 3313	Organizational Communication Credit Hours: 3
MGMT 3341	Human Resource Planning, Staffing and Selection Credit Hours: 3
MGMT 4326	Effective Negotiations Credit Hours: 3
MGMT 4353	International Business Management Credit Hours: 3
MGMT 4371	Seminar on the Social Responsibility of Business Credit Hours: 3
MGMT 4391	Selected Topics in Management Credit Hours: 3

Managment Concentration(Optional)2) Leadership Concentration (15 hours)

Leadership Concentration (15 hours)	
2 courses (6 hours)	
MGMT 4327	Leadership Credit Hours: 3
MGMT 4334	Leading Teams Credit Hours: 3

2 courses from list (6 hours):	
LEGL 4353	Dispute Resolution Credit Hours: 3
MGMT 3313	Organizational Communication Credit Hours: 3
MGMT 4326	Effective Negotiations Credit Hours: 3
MGMT 4328	Cross Cultural and International Leadership Credit Hours: 3
MGMT 4332	Organizational Design and Learning Credit Hours: 3
MGMT 4341	Leadership in a Global Business Environment Credit Hours: 3
MGMT 4356	Employee Training and Organizational Development Credit Hours: 3

Additional Information

May replace LEGL 4353 with MGMT 4931 special topics course titled Dispute Resolution.

May replace MGMT 4326 with MGMT 4931 special topics course titled Effective Negotiations.

Any Upper-Level (33XX or 43XX) MGMT course not already taken (3 hours)

Managment Concentration (optional)

3) Human Resource Managment Concentration (15 hours)

Human Resource Management Concentration (15 hours)	
3 courses (9 hours)	
MGMT 3341	Human Resource Planning, Staffing and Selection Credit Hours: 3
MGMT 3351	Wage and Salary Administration Credit Hours: 3
MGMT 4325	Legal Concepts for Human Resource Professionals Credit Hours: 3

1 course from list (3 hours):	
MGMT 4316	Human Resource Management Information Systems Credit Hours: 3
MGMT 4333	Collective Bargaining in the Public Sector Credit Hours: 3
MGMT 4351	Industrial Labor Relations Credit Hours: 3
MGMT 4356	Employee Training and Organizational Development Credit Hours: 3
LEGL 4353	Dispute Resolution Credit Hours: 3

Additional Information

May replace LEGL 4353 with MGMT 4931 special topics course titled Dispute Resolution.

Any Upper-Level (33XX or 43XX) MGMT course not already taken (3 hours)

Management Concentration(optional)

4) Environmental Management Concentration (15 hours)

Environmental Management Concentration (15 hours)	
2 courses (6 hours)	
ENVR 3311	Foundations of Environmental Management Credit Hours: 3
ENVR 4315	Introduction to Environmental Law Credit Hours: 3

2 courses from ENVR rubric 4000 level (6 hours)

Any Upper-Level (33XX or 43XX) MGMT course not already taken (3 hours)

Management Information Systems B.S.

University Core Requirements (42 Hours)

The Management Information Systems bachelor degree is designed for students to acquire knowledge, skills and abilities necessary for analyzing, designing, developing and implementing organizational information systems. The degree coursework is comprised of business courses (in areas such as accounting, marketing and finance) as ell as information systems courses (in areas such as web application development, database applications development, computer networks design and administration, and business applications programming). The degree coursework prepares students for careers that include business application developer, database application developer, network designer and administrator, web application developer and technical support.

The degree in Management Information Systems lead to the bachelor of science. A minimum of 57 Upper-Level (33XX and 43XX) hours and a total of 120 hours are required for the baccalaureate degree. A minimum cumulative GPA of 2.0 or higher is required to graduate.

Communication (6 hours)	
WRIT 1301	Composition I Credit Hours: 3
WRIT 1302	Composition II Credit Hours: 3
Additional Information Grades must be C- or better	
Mathematics (3 hours)	

Mathematics for Business and Social

Sciences.

MATH 1324

	Sciences. Credit Hours: 3	
Additional Information Grade must be C- or better		
Life and Physical Sciences (6 hours)		
Choose two course from the approved l	ist	
ASTR 1303	Stars and Galaxies Credit Hours: 3	
ASTR 1304	Solar System Credit Hours: 3	
BIOL 1306	Biology for Science Majors I Credit Hours: 3	
BIOL 1307	Biology for Science Majors II Credit Hours: 3	
BIOL 1308	Biology for Non-Science Majors I	
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3	
BIOL 2301	Anatomy & Physiology I Credit Hours: 3	
BIOL 2302	Anatomy & Physiology II Credit Hours: 3	
CHEM 1305	Introductory Chemistry I Credit Hours: 3	
CHEM 1311	General Chemistry I	
CHEM 1312	General Chemistry II Credit Hours: 3	
ENSC 1301	Environmental Science I Credit Hours: 3	
ENSC 1302	Environmental Science II Credit Hours: 3	
GEOL 1303	Physical Geology Credit Hours: 3	
GEOL 1304	Historical Geology Credit Hours: 3	
PHYS 1301	College Physics I Credit Hours: 3	
PHYS 1302	College Physics II Credit Hours: 3	
PHYS 2325	University Physics I Credit Hours: 3	
PHYS 2326	University Physics II Credit Hours: 3	

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Language, Philosophy and Culture (3 hours)		
Choose one course from the approved HUMN 1301	Humanities	
1101/11/1501	Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
Choose one course from the approve	d list	
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
American History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science	e (6 hours)	
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social and Behavioral Sciences (3 hours)		
ECON 2301	Principles of Macroeconomics Credit Hours: 3	
Additional Information Other courses may meet this requirement, however, ECON 2301 will still be required for all Business majors		
Component Area Option (6 hours)		
Two 1- hour Life and Physical Science	e Labs	
COMM 1315	Public Speaking	

Credit Hours: 3

PSYC 1100	Learning Frameworks
	Credit Hours: 1

College Core Requirements (48 hours)

The following courses, or their approved equivalents, together with accounting and economics principles and business law, constitute the business core and are required of all business students. No more than 6 hours of grades in the range of D+, D or D- are permitted in Upper-Level (33XX and 43XX) Business Core Requirements.

Core Requirements for Business Majors (48 hours)	
ACCT 2301	Principles of Accounting I - Financial Credit Hours: 3
ACCT 2302	Principles of Accounting II- Managerial Credit Hours: 3
BAPA 1301	Business Principles Credit Hours: 3
ECON 2302	Principles of Microeconomics Credit Hours: 3
ISAM 1305	Business Computer Applications Credit Hours: 3
LEGL 2301	Legal Environment of Business Credit Hours: 3
MATH 1325	Calculus for Business and Social Sciences Credit Hours: 3
DSCI 3321	Statistics I Credit Hours: 3
DSCI 3331	Quantitative Methods for Management Credit Hours: 3
ECON 3311	Money and Banking Credit Hours: 3
FINC 3331	Business Finance Credit Hours: 3
ISAM 3303	Information Systems for Management Credit Hours: 3
MGMT 3301	Management Theory and Practice Credit Hours: 3

MGMT 4312	Strategic Management (Capstone) Credit Hours: 3
MKTG 3301	Principles of Marketing Credit Hours: 3
WRIT 3312	Written Communications in Business Credit Hours: 3
Additional Information MGMT 4312 Capstone courserequires permission.	

Major Requirements (30 hours)

All courses within the Major Requirements must be completed with a grade of C- or better. A minimum cumulative GPA of 2.0 or higher is required to graduate.

Major Requirements (30 hours)	
ISAM 3304	Introduction to Business Applications Programming Credit Hours: 3
ISAM 3314	Applications Development with Java Credit Hours: 3
ISAM 3331	Introduction to Business Database Application Development
ISAM 3333	Applications Development with C# Credit Hours: 3
ISAM 4331	Introduction to Business Internet Applications Development Credit Hours: 3
ISAM 4332	Advanced Business Internet Applications Development Credit Hours: 3
ISAM 4362	Advanced Business Database Application Development
ISAM 4365	Analysis and Design of Information Systems Credit Hours: 3
ISAM 4366	Introduction to Computer Networks Management Credit Hours: 3

Elective Requirements (3 hours)

Elective Requirement (3 hours)

Any Upper-Level (33XX or 43XX) ISAM course beyond required courses already taken.

Marketing B.S.

University Core Requirements (42 Hours)

Marketing is more than a job — it's a crucial business function. UHCL's Bachelor of Science in Marketing provides the education necessary to succeed in advertising, event management, advertising, marketing research, public relations, social media and more. Discover the science and art of marketing strategy, while learning fundamental principles of advertising and promotion. In your coursework, you'll explore consumer behavior, and study marketing channels and distribution. You will learn to plan and conduct market research, as well as study distribution channels and logistics.

The degree in Marketing leads to the bachelor of science. A minimum of 57 Upper-Level (33XX and 43XX) hours and a total of 120 hours are required for the baccalaureate degree. A minimum cumulative GPA of 2.0 or higher is required to graduate.

Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Additional Information Grades must be C- or better.		
Mathematics (3 hours)		
MATH 1324	Mathematics for Business and Social Sciences. Credit Hours: 3	

Additional Information

Grade must be C- or better

Choose two course from the appro	oved list
ASTR 1303	Stars and Galaxies Credit Hours: 3
ASTR 1304	Solar System Credit Hours: 3
BIOL 1306	Biology for Science Majors I Credit Hours: 3
BIOL 1307	Biology for Science Majors II Credit Hours: 3
BIOL 1308	Biology for Non-Science Majors I
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3
BIOL 2301	Anatomy & Physiology I Credit Hours: 3
BIOL 2302	Anatomy & Physiology II Credit Hours: 3
CHEM 1305	Introductory Chemistry I Credit Hours: 3
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II Credit Hours: 3
ENSC 1301	Environmental Science I Credit Hours: 3
ENSC 1302	Environmental Science II Credit Hours: 3
GEOL 1303	Physical Geology Credit Hours: 3
GEOL 1304	Historical Geology Credit Hours: 3
PHYS 1301	College Physics I Credit Hours: 3
PHYS 1302	College Physics II Credit Hours: 3
PHYS 2325	University Physics I Credit Hours: 3
PHYS 2326	University Physics II Credit Hours: 3

HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
Choose one course from the ap	proved list	
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
American History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Sci	ence (6 hours)	
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social and Behavioral Sciences (3 hours) Choose one course from the approved list		
ECON 2301	Principles of Macroeconomics Credit Hours: 3	
Additional Information Other courses may meet this requirement, however, ECON 2301 will still be required for all Business majors		

Component Area Option (6 hours)

Two 1- hour Life and Physical Science Labs

Public Speaking Credit Hours: 3

Learning Frameworks Credit Hours: 1

COMM 1315

PSYC 1100

College Core Requirements (48 hours)

The following courses, or their approved equivalents, together with accounting and economics principles and business law, constitute the business core and are required of all business students. No more than 6 hours of grades in the range of D+, D or D- are permitted in upper-level Business Core Requirements.

Core Requirements for Business Majors (48 hours)		
ACCT 2301	Principles of Accounting I - Financial Credit Hours: 3	
ACCT 2302	Principles of Accounting II- Managerial Credit Hours: 3	
BAPA 1301	Business Principles Credit Hours: 3	
ECON 2302	Principles of Microeconomics Credit Hours: 3	
ISAM 1305	Business Computer Applications Credit Hours: 3	
LEGL 2301	Legal Environment of Business Credit Hours: 3	
MATH 1325	Calculus for Business and Social Sciences Credit Hours: 3	
DSCI 3321	Statistics I Credit Hours: 3	
DSCI 3331	Quantitative Methods for Management Credit Hours: 3	
ECON 3311	Money and Banking Credit Hours: 3	
FINC 3331	Business Finance Credit Hours: 3	
ISAM 3303	Information Systems for Management Credit Hours: 3	
MGMT 3301	Management Theory and Practice Credit Hours: 3	
MGMT 4312	Strategic Management (Capstone) Credit Hours: 3	
MKTG 3301	Principles of Marketing Credit Hours: 3	

WRIT 3312	Written Communications in Business Credit Hours: 3
Additional Information	
MGMT 4312 Capstone courserequires permission.	

Major Requirements (18 hours)

All courses within the Major Requirements must be completed with a grade of C- or better. A minimum cumulative GPA of 2.0 or higher is required to graduate.

Major Requirements(18 hours)	
MKTG 3313	Marketing Channels and Distribution Credit Hours: 3
MKTG 3343	Consumer Behavior Credit Hours: 3
MKTG 3351	Marketing Research Credit Hours: 3

Major Electives (9 hours)

Choose 3 MKTG Upper-Level (33XX and 43XX) courses other than those already reequired.

Elective Requirements (12 hours)

Elective Requirements (# hours)

Choose 4 Upper-Level (33XX and 43XX) courses offered by Colleges of Business, Human Sciences & Humanities, Science & Engineering or Education

Mathematical Science B.A.

The plan in Mathematical Science leads to the bachelor of arts (B.A.) or bachelor of science (B.S.) degree. The undergraduate degree is designed to prepare the student for a career in industry or education, or to prepare the student for graduate study in mathematics, statistics, operations research or other mathematically based disciplines. The plan includes courses in both the classical foundations of mathematics

and the modern concern with numerical issues spawned by the computer. Students who are seeking teaching certification will follow the degree plan and certification on notated pages. Please consult the College of Education (COE) for 4-8 degree and certification as well as for 8-12 degree and certification.

Requirements

This degree requires 120 hours and includes 42 hours of University Core. University Core is listed separately in the catalog. However; some of the Major Requirements courses listed above also satisfy University Core. If other courses are taken to satisfy University Core, the Major Requirements above are still necessary for graduation and substitutions are not accepted.

University Core Requirements (42 Hours)

Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
MATH 1314	College Algebra Credit Hours: 3	
Life and Physical Sciences (6 hours)		
ASTR 1303	Stars and Galaxies Credit Hours: 3	
ASTR 1304	Solar System Credit Hours: 3	
BIOL 1306	Biology for Science Majors I Credit Hours: 3	
BIOL 1307	Biology for Science Majors II Credit Hours: 3	
BIOL 1308	Biology for Non-Science Majors I	
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3	

Anatomy & Physiology I

BIOL 2301

BIOL 2301	Credit Hours: 3
BIOL 2302	Anatomy & Physiology II Credit Hours: 3
CHEM 1305	Introductory Chemistry I Credit Hours: 3
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II Credit Hours: 3
ENSC 1301	Environmental Science I Credit Hours: 3
ENSC 1302	Environmental Science II Credit Hours: 3
GEOL 1303	Physical Geology Credit Hours: 3
GEOL 1304	Historical Geology Credit Hours: 3
PHYS 1301	College Physics I Credit Hours: 3
PHYS 1302	College Physics II Credit Hours: 3
PHYS 2325	University Physics I Credit Hours: 3
PHYS 2326	University Physics II Credit Hours: 3
Language, Philosophy and Cultur	e (3 hours)
HUMN 1301	Humanities Credit Hours: 3
LITR 2341	Literature and Experience Credit Hours: 3
PHIL 1301	Introduction to Philosophy Credit Hours: 3
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3
Creative Arts (3 Hours)	
ARTS 1303	World Art Survey I Credit Hours: 3
ARTS 1304	World Art Survey II Credit Hours: 3
ARTS 2379	Arts and the Child Credit Hours: 3
American History (6 hours)	

HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social and Behavioral Sciences (3 hours)		
ANTH 2346	General Anthropology Credit Hours: 3	
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3	
ECON 2301	Principles of Macroeconomics Credit Hours: 3	
ECON 2302	Principles of Microeconomics Credit Hours: 3	
GEOG 1303	World Regional Geography Credit Hours: 3	
PSYC 2301	Introduction to Psychology Credit Hours: 3	
SOCI 1301	Introduction to Sociology Credit Hours: 3	
Component Area Option (6 hours)		
Two 1- hour Life and PhysicalScience Labs		
COMM 1315	Public Speaking Credit Hours: 3	
PSYC 1100	Learning Frameworks Credit Hours: 1	

Major Requirements (36 Hours)

Required minimum for all Major Requirements is "C-".

Major Requirements	
MATH 2412	Pre-Calculus Mathematics Credit Hours: 4
MATH 2413	Calculus I Credit Hours: 4
MATH 2414	Calculus II

MATH 2315	Calculus III Credit Hours: 3	
MATH 2318	Linear Algebra Credit Hours: 3	
MATH 2320	Differential Equations Credit Hours: 3	
MATH 3300	Introduction to Modern Algebra and Number Theory Credit Hours: 3	
MATH 3312	Number Theory Credit Hours: 3	
WRIT 3315	Advanced Technical Writing Credit Hours: 3	
Additional Major Requirements courses		
Select one		
CSCI 1318	Pascal Programming I Credit Hours: 3	
CSCI 1320	C Programming Credit Hours: 3	
CSCI 3311	Programming With Visual Basic Credit Hours: 3	
Additional Major Requirements	Credit Hours: 3	
	Credit Hours: 3	
Additional Major Requirements	Credit Hours: 3	

Elective Requirements (9 Hours)

Required minimum for all Major Electives is "C-".

Major Elective Requirements (9 hours)	
Three upper level MATH/STAT classes which must be selected from the following list:	
MATH 3301	History of Mathematical Sciences Credit Hours: 3
MATH 3331	Advanced Calculus Credit Hours: 3
MATH 4315	Numerical Analysis and its Applications Credit Hours: 3

MATH 4316	Mathematic Software Applications Credit Hours: 3
MATH 4321	Predicate Logic Credit Hours: 3
MATH 4322	Introduction to Abstract Algebra Credit Hours: 3
MATH 4325	Theory of Models and Applications Credit Hours: 3
MATH 4345	Introduction to Statistics Credit Hours: 3
MATH 4346	Probability for Actuarial Exam P1 Credit Hours: 3
STAT 4345	Introduction to Statistics Credit Hours: 3
STAT 4346	Probability for Actuarial Exam P1 Credit Hours: 3
MATH 4348	Introduction to Financial Math for Exam FM Credit Hours: 3
STAT 4348	Introduction to Financial Math for Exam FM Credit Hours: 3

Additional Information

- Choose between MATH 4345 Introduction to Statistics Or STAT 4345 Introduction to Statistics
- Choose between MATH 4346 Or STAT 4346 Probability for Actuarial Exam P1
- Choose between MATH 4348 Introduction to Financial Math for Exam FM Or STAT 4348 Introduction to Financial Math for Exam FM

General Electives (33 hours)

Upper level UHCL classes selected from any rubric. It is the responsibility of the student to investigate and comply with prerequisites for all electives. STAT 3308 and STAT 3334 cannot be used as credit for the Math degree.

Mathematical Science B.A. with Mathematics 7-12 Certification

University Core Requirements (42 Hours)

Communication (6 hours)	
WRIT 1301	Composition I Credit Hours: 3

WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
MATH 2413	Calculus I Credit Hours: 4	

Additional Information

Three (3) hours of Calculus will count toward the University Core and one (1) hour will count toward the Major.

Life and Physical Sciences (6 hours)	
Choose two courses from the list.	
ASTR 1303	Stars and Galaxies Credit Hours: 3
ASTR 1304	Solar System Credit Hours: 3
BIOL 1306	Biology for Science Majors I Credit Hours: 3
BIOL 1307	Biology for Science Majors II Credit Hours: 3
BIOL 1308	Biology for Non-Science Majors I
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3
BIOL 2301	Anatomy & Physiology I Credit Hours: 3
BIOL 2302	Anatomy & Physiology II Credit Hours: 3
CHEM 1305	Introductory Chemistry I Credit Hours: 3
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II Credit Hours: 3
ENSC 1301	Environmental Science I Credit Hours: 3
ENSC 1302	Environmental Science II Credit Hours: 3
GEOL 1303	Physical Geology Credit Hours: 3
GEOL 1304	Historical Geology Credit Hours: 3
PHYS 1301	College Physics I Credit Hours: 3
PHYS 1302	College Physics II Credit Hours: 3

PHYS 2325	University Physics I Credit Hours: 3	
PHYS 2326	University Physics II Credit Hours: 3	
Language, Philosophy and Culture (3 hours)		
Choose one course from the list.		
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
Choose one course from the list.		
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
American History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social and Behavioral Sciences (3 hours)		
Choose one course from the list.		
ANTH 2346	General Anthropology Credit Hours: 3	
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3	
ECON 2301	Principles of Macroeconomics	

ECON 2302	Principles of Microeconomics Credit Hours: 3
GEOG 1303	World Regional Geography Credit Hours: 3
PSYC 2301	Introduction to Psychology Credit Hours: 3
SOCI 1301	Introduction to Sociology Credit Hours: 3
Component Area Option (6 hours)	
Two 1- hour Life and PhysicalScience Labs	
COMM 1315	Public Speaking

Credit Hours: 3

Learning Frameworks Credit Hours: 1

College Core Requirements (19 hours)

PSYC 1100

College Core Requirements	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3
SPED 2301	Introduction to Special Populations Credit Hours: 3
SPED 4300	Survey of Exceptionalities Credit Hours: 3
TCED 1301	Exploring Teaching as a Profession Credit Hours: 3
TCED 4102	Secondary (4-8 and 7-12) Content Teacher Seminar Credit Hours: 1

Major Requirements (49 hours)

Major Requirements	
Choose one Natural Science Elective, in addition to the University Core science (3 hours from: ASTR, BIOL, CHEM, ENSC, GEOL or PHYS)	
MATH 2318	Linear Algebra Credit Hours: 3
MATH 2320	Differential Equations Credit Hours: 3
MATH 2414	Calculus II

MATH 3300	Introduction to Modern Algebra and Number Theory Credit Hours: 3
MATH 3304	Algebra Through Technology Credit Hours: 3
MATH 3305	Euclidian and Non-Euclidian Geometry Credit Hours: 3
MATH 3312	Number Theory Credit Hours: 3
MATH 4344	Introduction to Probability Credit Hours: 3
LLLS 4351	Reading in Content Subjects Credit Hours: 3
WRIT 3315	Advanced Technical Writing Credit Hours: 3
TCED 4306	Creating Positive Learning Environments in 7-12 Credit Hours: 3
Choose four courses from th	ne following list of 8 choices:
Choose four courses from the	calculus III Credit Hours: 3
	Calculus III
MATH 2315	Calculus III Credit Hours: 3 History of Mathematical Sciences
MATH 2315 MATH 3301	Calculus III Credit Hours: 3 History of Mathematical Sciences Credit Hours: 3 Numerical Analysis and its Applications
MATH 2315 MATH 3301 MATH 4315	Calculus III Credit Hours: 3 History of Mathematical Sciences Credit Hours: 3 Numerical Analysis and its Applications Credit Hours: 3 Mathematic Software Applications
MATH 2315 MATH 3301 MATH 4315 MATH 4316	Calculus III Credit Hours: 3 History of Mathematical Sciences Credit Hours: 3 Numerical Analysis and its Applications Credit Hours: 3 Mathematic Software Applications Credit Hours: 3 Predicate Logic
MATH 2315 MATH 3301 MATH 4315 MATH 4316 MATH 4321	Calculus III Credit Hours: 3 History of Mathematical Sciences Credit Hours: 3 Numerical Analysis and its Applications Credit Hours: 3 Mathematic Software Applications Credit Hours: 3 Predicate Logic Credit Hours: 3 Introduction to Abstract Algebra

Pedagogy Requirements (15 Hours)

Pedagogy Requirements	
TCED 4363	Methods in Secondary Mathematics Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3

TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9
Additional Information	

Additional Information

- All courses outside the University Core must be C- or better.
- Check prerequisites before enrolling in any courses.

Mathematical Science B.S.

The plan in Mathematical Science leads to the bachelor of arts (B.A.) or bachelor of science (B.S.) degree. The undergraduate degree is designed to prepare the student for a career in industry or education, or to prepare the student for graduate study in mathematics, statistics, operations research or other mathematically based disciplines. The plan includes courses in both the classical foundations of mathematics and the modern concern with numerical issues spawned by the computer. Students who are seeking teaching certification will follow the degree plan and certification on notated pages. Please consult the College of Education (COE) for 4-8 degree and certification as well as for 8-12 degree and certification.

Requirements

This degree requires 120 hours and includes 42 hours of University Core. University Core is listed separately in the catalog. However; some of the Major Requirements courses listed above also satisfy University Core. If other courses are taken to satisfy University Core, the Major Requirements above are still necessary for graduation and substitutions are not accepted.

University Core Requirements (42 Hours)

Communication (6 hours)

WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)	Mathematics (3 hours)	
MATH 1314	College Algebra Credit Hours: 3	
Life and Physical Sciences (6 hours)		
ASTR 1303	Stars and Galaxies Credit Hours: 3	
ASTR 1304	Solar System Credit Hours: 3	
BIOL 1306	Biology for Science Majors I Credit Hours: 3	
BIOL 1307	Biology for Science Majors II Credit Hours: 3	
BIOL 1308	Biology for Non-Science Majors I	
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3	
BIOL 2301	Anatomy & Physiology I Credit Hours: 3	
BIOL 2302	Anatomy & Physiology II Credit Hours: 3	
CHEM 1305	Introductory Chemistry I Credit Hours: 3	
CHEM 1311	General Chemistry I	
CHEM 1312	General Chemistry II Credit Hours: 3	
ENSC 1301	Environmental Science I Credit Hours: 3	
ENSC 1302	Environmental Science II Credit Hours: 3	
GEOL 1303	Physical Geology Credit Hours: 3	
GEOL 1304	Historical Geology Credit Hours: 3	
PHYS 1301	College Physics I Credit Hours: 3	
PHYS 1302	College Physics II Credit Hours: 3	
PHYS 2325	University Physics I Credit Hours: 3	

PHYS 2326	University Physics II Credit Hours: 3	
Language, Philosophy and Culture (3 hours)		
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
American History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)	
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social and Behavioral Sciences (3 hours)	
ANTH 2346	General Anthropology Credit Hours: 3	
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3	
ECON 2301	Principles of Macroeconomics Credit Hours: 3	
ECON 2302	Principles of Microeconomics Credit Hours: 3	
GEOG 1303	World Regional Geography Credit Hours: 3	
PSYC 2301	Introduction to Psychology Credit Hours: 3	

SOCI 1301	Introduction to Sociology Credit Hours: 3
Component Area Option (6 hours)	
Two 1- hour Life and PhysicalScience Labs	
COMM 1315	Public Speaking Credit Hours: 3
PSYC 1100	Learning Frameworks Credit Hours: 1

Major Requirements (39 Hours)

Required minimum for all Major Requirements is "C-".

Major Requirements	
MATH 2412	Pre-Calculus Mathematics Credit Hours: 4
MATH 2413	Calculus I Credit Hours: 4
MATH 2414	Calculus II
MATH 2315	Calculus III Credit Hours: 3
MATH 2318	Linear Algebra Credit Hours: 3
MATH 2320	Differential Equations Credit Hours: 3
MATH 3331	Advanced Calculus Credit Hours: 3
MATH 4316	Mathematic Software Applications Credit Hours: 3
MATH 4322	Introduction to Abstract Algebra Credit Hours: 3
MATH 4345	Introduction to Statistics Credit Hours: 3
STAT 4345	Introduction to Statistics Credit Hours: 3
MATH 4344	Introduction to Probability Credit Hours: 3
STAT 4344	Introduction to Probability Credit Hours: 3
CSCI 1318	Pascal Programming I Credit Hours: 3

CSCI 3311	Programming With Visual Basic Credit Hours: 3
WRIT 3315	Advanced Technical Writing Credit Hours: 3

Additional Information

Choose between MATH 4322 Introduction to Abstract Algebra Or MATH 4345 Introduction to Statistics Or STAT 4345 Introduction to Statistics MATH 4344 Introduction to Probability Or STAT 4344 Introduction to Probability CSCI 1318 Pascal Programming I Or CSCI 1320 C Programming Or CSCI 3311 Programming With Visual Basic

Elective Requirements (9 Hours)

Required minimum for all Major Electives is "C-".

Najor Elective Requirements (9 hours)		
Three upper level MATH classes which list:	Three upper level MATH classes which must be selected from the following list:	
MATH 3312	Number Theory Credit Hours: 3	
MATH 4313	Introduction to Topology Credit Hours: 3	
MATH 4315	Numerical Analysis and its Applications Credit Hours: 3	
MATH 4321	Predicate Logic Credit Hours: 3	
MATH 4322	Introduction to Abstract Algebra Credit Hours: 3	
MATH 4325	Theory of Models and Applications Credit Hours: 3	
MATH 4341	Introduction to Analysis Credit Hours: 3	
MATH 4345	Introduction to Statistics Credit Hours: 3	
STAT 4345	Introduction to Statistics Credit Hours: 3	
MATH 4346	Probability for Actuarial Exam P1 Credit Hours: 3	
STAT 4346	Probability for Actuarial Exam P1 Credit Hours: 3	
MATH 4348	Introduction to Financial Math for Exam FM Credit Hours: 3	

STAT 4348	Introduction to Financial Math for Exam FM Credit Hours: 3
MATH 4350	Financial Economics for Actuarial Exam MFE Credit Hours: 3
STAT 4350	Financial Economics Credit Hours: 3
MATH 4363	Functions of a Complex Variable Credit Hours: 3

Additional Information

Choose between MATH 4345 Introduction to Statistics Or STAT 4345 Introduction to Statistics MATH 4346 Probability for Actuarial Exam P1 Or STAT 4346 Probability for Actuarial Exam P1 MATH 4348 Introduction to Financial Math for Exam FM Or STAT 4348 Introduction to Financial Math for Exam FM MATH 4350 Financial Economics for Actuarial Exam MFE Or STAT 4350 Financial Economics

General Electives (30 hours)

Upper level UHCL classes selected from any rubric. It is the responsibility of the student to investigate and comply with prerequisites for all electives.STAT 3308 and STAT 3334 cannot be used as credit for the Math degree.

Mathematical Science B.S. with Mathematics 7-12 Certification

University Core Requirements (42 Hours)

Communication (6 hours)	
WRIT 1301	Composition I Credit Hours: 3
WRIT 1302	Composition II Credit Hours: 3
Mathematics (3 hours)	
MATH 2413	Calculus I Credit Hours: 4
Additional Information Three (3) hours of Calculus will count hour will count toward the Major.	t toward the University Core and one (1)
Life and Physical Sciences (6 h	ours)
Choose two courses from list	

ASTR 1303	Stars and Galaxies Credit Hours: 3
ASTR 1304	Solar System Credit Hours: 3
BIOL 1306	Biology for Science Majors I Credit Hours: 3
BIOL 1307	Biology for Science Majors II Credit Hours: 3
BIOL 1308	Biology for Non-Science Majors I
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3
BIOL 2301	Anatomy & Physiology I Credit Hours: 3
BIOL 2302	Anatomy & Physiology II Credit Hours: 3
CHEM 1305	Introductory Chemistry I Credit Hours: 3
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II Credit Hours: 3
ENSC 1301	Environmental Science I Credit Hours: 3
ENSC 1302	Environmental Science II Credit Hours: 3
GEOL 1303	Physical Geology Credit Hours: 3
GEOL 1304	Historical Geology Credit Hours: 3
PHYS 1301	College Physics I Credit Hours: 3
PHYS 1302	College Physics II Credit Hours: 3
PHYS 2325	University Physics I Credit Hours: 3
PHYS 2326	University Physics II Credit Hours: 3
Language, Philosophy and Cultur	re (3 hours)
Choose one course from the list.	
HUMN 1301	Humanities Credit Hours: 3
LITR 2341	Literature and Experience Credit Hours: 3

PHIL 1301	Introduction to Philosophy Credit Hours: 3
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3
Creative Arts (3 Hours)	
Choose one course from the	list.
ARTS 1303	World Art Survey I Credit Hours: 3
ARTS 1304	World Art Survey II Credit Hours: 3
ARTS 2379	Arts and the Child Credit Hours: 3
American History (6 ho	urs)
HIST 1301	United States History I Credit Hours: 3
HIST 1302	United States History II Credit Hours: 3
Government/ Political S	cience (6 hours)
POLS 2305	Federal Government Credit Hours: 3
POLS 2306	Texas Government Credit Hours: 3
Social and Behavioral S	ciences (3 hours)
Choose one course from the	e list.
	General Anthropology Credit Hours: 3
Choose one course from the ANTH 2346 CRIM 1301	General Anthropology
ANTH 2346 CRIM 1301	General Anthropology Credit Hours: 3 Introduction to Criminal Justice
ANTH 2346	General Anthropology Credit Hours: 3 Introduction to Criminal Justice Credit Hours: 3 Principles of Macroeconomics
ANTH 2346 CRIM 1301 ECON 2301	General Anthropology Credit Hours: 3 Introduction to Criminal Justice Credit Hours: 3 Principles of Macroeconomics Credit Hours: 3 Principles of Microeconomics
ANTH 2346 CRIM 1301 ECON 2301 ECON 2302	General Anthropology Credit Hours: 3 Introduction to Criminal Justice Credit Hours: 3 Principles of Macroeconomics Credit Hours: 3 Principles of Microeconomics Credit Hours: 3 World Regional Geography
ANTH 2346 CRIM 1301 ECON 2301 ECON 2302 GEOG 1303	General Anthropology Credit Hours: 3 Introduction to Criminal Justice Credit Hours: 3 Principles of Macroeconomics Credit Hours: 3 Principles of Microeconomics Credit Hours: 3 World Regional Geography Credit Hours: 3 Introduction to Psychology

COMM 1315	Public Speaking Credit Hours: 3
PSYC 1100	Learning Frameworks Credit Hours: 1

College Core Requirements (19 hours)

College Core Requirements	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3
SPED 2301	Introduction to Special Populations Credit Hours: 3
SPED 4300	Survey of Exceptionalities Credit Hours: 3
TCED 1301	Exploring Teaching as a Profession Credit Hours: 3
TCED 4102	Secondary (4-8 and 7-12) Content Teacher Seminar Credit Hours: 1

Major Requirements (49 hours)

Major Requirements	
LLLS 4351	Reading in Content Subjects Credit Hours: 3
MATH 2315	Calculus III Credit Hours: 3
MATH 2318	Linear Algebra Credit Hours: 3
MATH 2320	Differential Equations Credit Hours: 3
MATH 2414	Calculus II
MATH 3304	Algebra Through Technology Credit Hours: 3
MATH 3305	Euclidian and Non-Euclidian Geometry Credit Hours: 3
MATH 3331	Advanced Calculus Credit Hours: 3
MATH 4344	Introduction to Probability Credit Hours: 3

TCED 4306	Creating Positive Learning Environments in 7-12 Credit Hours: 3
WRIT 3315	Advanced Technical Writing Credit Hours: 3
Choose one course from the follo	owing 2 choices:
MATH 4322	Introduction to Abstract Algebra Credit Hours: 3
MATH 4345	Introduction to Statistics Credit Hours: 3
Choose four courses from the fo	llowing list of 9 choices:
MATH 3312	Number Theory Credit Hours: 3
MATH 4313	Introduction to Topology Credit Hours: 3
MATH 4315	Numerical Analysis and its Applications Credit Hours: 3
MATH 4316	Mathematic Software Applications Credit Hours: 3
MATH 4321	Predicate Logic Credit Hours: 3
MATH 4322	Introduction to Abstract Algebra Credit Hours: 3
MATH 4325	Theory of Models and Applications Credit Hours: 3
MATH 4341	Introduction to Analysis Credit Hours: 3
MATH 4363	Functions of a Complex Variable Credit Hours: 3

Pedagogy Requirements (15 hours)

Pedagogy Requirements	
TCED 4363	Methods in Secondary Mathematics Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3
TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9
Additional Information	

Additional Information

- · All courses outside the University Core must be C- or better.
- · Check prerequisites before enrolling in any courses.

Mathematics B.A. with Mathematics 4-8 Certification

University Core Requirements (42 Hours)

Communication (6 hours)	
WRIT 1301	Composition I Credit Hours: 3
WRIT 1302	Composition II Credit Hours: 3
Mathematics (3 hours)	
MATH 2413	Calculus I Credit Hours: 4
Additional Information	

Three (3) hours of Calculus will count toward the University Core and one (1) hour will count toward the Major.

Life and Physical Sciences (6 hours)	
Choose two courses from t	he list.
ASTR 1303	Stars and Galaxies Credit Hours: 3
ASTR 1304	Solar System Credit Hours: 3
BIOL 1306	Biology for Science Majors I Credit Hours: 3
BIOL 1307	Biology for Science Majors II Credit Hours: 3
BIOL 1308	Biology for Non-Science Majors I
BIOL 1309	Biology for Non-Science Majors I Credit Hours: 3
BIOL 2301	Anatomy & Physiology I Credit Hours: 3
BIOL 2302	Anatomy & Physiology II Credit Hours: 3
CHEM 1305	Introductory Chemistry I Credit Hours: 3
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II Credit Hours: 3

ENSC 1301	Environmental Science I Credit Hours: 3	
ENSC 1302	Environmental Science II Credit Hours: 3	
GEOL 1303	Physical Geology Credit Hours: 3	
GEOL 1304	Historical Geology Credit Hours: 3	
PHYS 1301	College Physics I Credit Hours: 3	
PHYS 1302	College Physics II Credit Hours: 3	
PHYS 2325	University Physics I Credit Hours: 3	
PHYS 2326	University Physics II Credit Hours: 3	
Language, Philosophy and Cultur	re (3 hours)	
Choose one course from the list.		
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
Choose one course from the list.		
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
American History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		

POLS 2305	Federal Government Credit Hours: 3
POLS 2306	Texas Government Credit Hours: 3
Social and Behavioral Sciences (3 hours)
Choose one course from the list.	
ANTH 2346	General Anthropology Credit Hours: 3
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3
ECON 2301	Principles of Macroeconomics Credit Hours: 3
ECON 2302	Principles of Microeconomics Credit Hours: 3
GEOG 1303	World Regional Geography Credit Hours: 3
PSYC 2301	Introduction to Psychology Credit Hours: 3
SOCI 1301	Introduction to Sociology Credit Hours: 3
Component Area Option (6 hours)	
Two 1- hour Life and PhysicalScience Labs	

College Core Requirements (19 hours)

Public Speaking Credit Hours: 3

Credit Hours: 1

Learning Frameworks

COMM 1315

PSYC 1100

College Core Requirements	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3
SPED 2301	Introduction to Special Populations Credit Hours: 3
SPED 4300	Survey of Exceptionalities Credit Hours: 3
TCED 1301	Exploring Teaching as a Profession Credit Hours: 3

TCED 4102	Secondary (4-8 and 7-12) Content
	Teacher Seminar
	Credit Hours: 1

Major Requirements (49 hours)

Major Requirements	
	e Electives, in addition to the University Core R, BIOL, CHEM, ENSC, GEOL or PHYS)
LLLS 4311	Survey of Reading Credit Hours: 3
LLLS 4351	Reading in Content Subjects Credit Hours: 3
MATH 1350	Mathematics for Teachers I Credit Hours: 3
MATH 1351	Mathematics for Teachers II Credit Hours: 3
MATH 2318	Linear Algebra Credit Hours: 3
MATH 2414	Calculus II
MATH 3300	Introduction to Modern Algebra and Number Theory Credit Hours: 3
MATH 3304	Algebra Through Technology Credit Hours: 3
MATH 4344	Introduction to Probability Credit Hours: 3
TCED 4304	Creating Positive Learning Environments in 4–8 Credit Hours: 3
WRIT 3315	Advanced Technical Writing Credit Hours: 3
Choose THREE courses	from the following list of 9 choices:
MATH 2315	Calculus III Credit Hours: 3
MATH 3301	History of Mathematical Sciences Credit Hours: 3
MATH 3305	Euclidian and Non-Euclidian Geometry Credit Hours: 3
MATH 3312	Number Theory Credit Hours: 3
MATH 4315	Numerical Analysis and its Applications Credit Hours: 3

MATH 4316	Mathematic Software Applications Credit Hours: 3
MATH 4321	Predicate Logic Credit Hours: 3
MATH 4322	Introduction to Abstract Algebra Credit Hours: 3
MATH 4345	Introduction to Statistics Credit Hours: 3

Pedagogy Requirements (15 hours)

Pedagogy Requirements	
TCED 4333	Mathematics Methods for Grades 4-8 Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3
TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9

Additional Information

- All courses outside the University Core must be C- or better.
- · Check prerequisites before enrolling in any courses.
- In the 12 hours (core included) of Science, students must have at least one course in each of the following areas: Biology, Earth Science and Physics/Chemistry/Astronomy.

Mathematics Scholars Plan - Linked B.S.-M.S. Degree Plans in Mathematics

The Mathematics Scholars Plan combines the B.S. degree plan in Mathematics with the M.S. degree plan in Mathematics with the intention of allowing highly motivated and qualified students to complete both the B.S. and M.S. degrees in mathematics in a time and cost efficient manner. Students in the plan may take up to four courses at the graduate level in their senior year if they have completed the required course prerequisites. These graduate credit hours may be applied toward either the

B.S. or M.S. degree, but not both. Additionally, students in the Scholars Plan are expected to begin a graduate research project early in their studies. After admission to the Scholars Plan and successful completion of the B.S. degree in Mathematics, the Mathematics Graduate Admissions committee will consider waiving the Graduate Record Examination (GRE) requirement for admission into the Mathematics Graduate Program, will also recommend the student to CSE Dean's Scholarship and will give priority when considering graduate teaching assistant in the math department.

Mathematics scholars plan application Requirements:

- Applicants may apply for admission to the program during their junior or senior year at UHCL. The application form is available at the math department.
- Applicants must declare themselves to be Mathematics majors immediately upon admission to Math Scholars Plan.
- Applicants must have completed a minimum of 21 credit hours in mathematics coursework and have a cumulative mathematics GPA of 3.5.
- Applicants must provide a letter of recommendation from a math faculty adviser familiar with the student's coursework.
- Applicants must interview with the Scholars Plan Admissions Committee.

After admission, successful continuation in the Scholars Plan will require students to:

 Maintain an overall GPA of 3.0 and mathematics GPA of 3.0. Failure to maintain these averages will result in a one-semester probation period during which the student must improve their cumulative GPA to 3.0 and their mathematics GPA to 3.0.

- Participate in CSE Science and Mathematics Colloquium.
- Enroll in the Mathematics Graduate Program upon completion of the requirements for the B.S. degree.
- Successfully complete a research project (Math 6837, Math 6838) or graduate thesis (Math 6939) under the supervision of a graduate faculty adviser as part of their MS degree coursework

Students who fail to meet any of these requirements will be dropped from the Scholars Plan, but may continue to pursue the B.S. or M.S. degree in chemistry. Students who are dropped from the Scholars Program, but still wish to pursue the MS degree, must meet the standard application requirements for admission to the Mathematics Graduate Program.

At the completion of the requirements for each degree the student will be awarded both the B.S. and M.S. degrees. A notation will be made on the student's transcript indicating they have completed the Mathematics Scholars Plan.

In the event a student is unable to complete the entire program of study, s/he is assured the B.S. degree in Mathematics upon completion of the requirements for that degree. In the event a student fails to complete the M.S. degree requirements, graduate level classes taken while in the program may be applied toward the B.S. degree.

Physics B.S.

The plan in Physics leads to the bachelor of science (B.S.) degree at the undergraduate level. Our location and the connections our faculty have with National Aeronautics and Space Administration (NASA) and allied aerospace industry allow UHCL to offer students unique research opportunities. In addition to our Physics B.S., we also offer a sub-plan in Engineering Physics, specifically designed for students interested in pursuing a career in engineering. The Houston-Galveston area is a thriving center for many science-intensive industries, from aerospace to petrochemical; thus, the demand for professionals with knowledge of physics is high. Local industries in Houston provide a huge potential to employ individuals with a B.S. in Physics, in addition to the increasing demand for physics teachers in high schools. This demand is also expected to grow dramatically over the next decade. An undergraduate degree in Physics would enable the students to progress into graduate programs in Physics, Astronomy or Engineering. Students may select electives in areas of particular interest. Physics is a very broad discipline, which can lead to a variety of career options. UHCL Physics program provides several areas where students can develop a degree plan to support their specific career goals. Some of these focus areas include: Geophysics, Biophysics, Space Physics, Computational Physics, Mathematical Physics, Materials Science, Physics Education, Premedical and Prelaw. Courses needed to support these focus areas are chosen in consultation with a physics adviser and faculty member from a different program.

Degree Requirements

Communication (6 hours)

This degree requires 120 hours and includes 42 hours of University Core. However; some of the Major Requirements courses listed below also satisfy University Core. If other courses are taken to satisfy University Core, the Major Requirements below are still necessary for graduation and substitutions are not accepted.

University Core Requirements (42 Hours)

Communication (Cincurs)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (4 hours)		
MATH 2413	Calculus I Credit Hours: 4	
Additional Information Three (3) hours of Calculus will count toward the University Core and one (1) hour will count toward the Major.		
Life and Physical Sciences (6 hours)		
CHEM 1311	General Chemistry I	
CHEM 1312	General Chemistry II Credit Hours: 3	
Language, Philosophy and Culture (3 hours)		
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
ARTS 1303	World Art Survey I Credit Hours: 3	

ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
American History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6	6 hours)	
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social and Behavioral Sciences (3 hours)	
ANTH 2346	General Anthropology Credit Hours: 3	
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3	
ECON 2301	Principles of Macroeconomics Credit Hours: 3	
ECON 2302	Principles of Microeconomics Credit Hours: 3	
GEOG 1303	World Regional Geography Credit Hours: 3	
PSYC 2301	Introduction to Psychology Credit Hours: 3	
SOCI 1301	Introduction to Sociology Credit Hours: 3	
Component Area Option (6 hours)		
CHEM 1111	Laboratory for General Chemistry I Credit Hours: 1	
CHEM 1112	Laboratory for General Chemistry II Credit Hours: 1	
COMM 1315	Public Speaking Credit Hours: 3	
PSYC 1100	Learning Frameworks Credit Hours: 1	

Major Requirements (49 Hours)

Students seeking a B.S. degree in the Physics should complete the following requirements:

Major Requirements	
CHEM 1111	Laboratory for General Chemistry I Credit Hours: 1
CHEM 1112	Laboratory for General Chemistry II Credit Hours: 1
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II Credit Hours: 3
MATH 2315	Calculus III Credit Hours: 3
MATH 2413	Calculus I Credit Hours: 4
MATH 2414	Calculus II
PHYS 2125	Laboratory for University Physics I Credit Hours: 1
PHYS 2126	Laboratory for University Physics II Credit Hours: 1
PHYS 2325	University Physics I Credit Hours: 3
PHYS 2326	University Physics II Credit Hours: 3
PHYS 3103	Laboratory for Modern Physics Credit Hours: 1
PHYS 3303	Modern Physics Credit Hours: 3
PHYS 3311	Mathematical Methods for Physics and Engineering I Credit Hours: 3
PHYS 3312	Mathematical Methods for Physics and Engineering II Credit Hours: 3
PHYS 3321	Intermediate Mechanics Credit Hours: 3
PHYS 3331	Intermediate Electromagnetism Credit Hours: 3
PHYS 3342	Quantum Theory Credit Hours: 3
PHYS 3351	Thermodynamics & Statistical Mechanics Credit Hours: 3

PHYS 4371	Undergraduate Physics Research Credit Hours: 3
PHYS 4372	Research Seminar Credit Hours: 3
WRIT 3315	Advanced Technical Writing Credit Hours: 3
Additional Major Requirements	
Select one	
CSCI 1318	Pascal Programming I Credit Hours: 3
CSCI 1320	C Programming Credit Hours: 3
CSCI 3311	Programming With Visual Basic Credit Hours: 3
Additional Information	
Demonstrated knowledge of a Programming Language: (e.g., Visual Basic, Matlab, C, C++, or Fortran) may fulfill requirement or CSCI 1318 or CSCI 1320	

Specialization Elective Requirements (28 hours)

Choose one of the following:

or CSCI 3311.

Physics without Specialization (12 hours) upper-level Physical Science classes selected from ASTR, CHEM, GEOL, PHYS or related classes approved in advance by faculty adviser.(16 hours) Upper-level (3000-4000) electives approved in advance by faculty adviser. Engineering Physics Specialization (28 hours)			
		(9 hours) Upper-level (3000-4000) electives approved by faculty adviser.	
		CENG 3264	Engineering Design and Project Management
CENG 3312	Digital Circuits Credit Hours: 3		
CENG 3112	Laboratory for Digital Circuits Credit Hours: 1		
CENG 3313	Linear Circuits Credit Hours: 3		
CENG 3113	Laboratory for Linear Circuits Credit Hours: 1		
PHYS 4322	Statics and Mechanics of Materials Credit Hours: 3		

PHYS 4352	Fluids and Heat Transfer Credit Hours: 3
SENG 4310	Introduction to Systems Engineering Credit Hours: 3

Physics Scholars Plan -Linked B.S.-M.S. Degree Plans in Physics

The Physics Scholars Plan combines the B.S. degree plan in Physics with our M.S. degree plan in Physics with the intention of allowing highly motivated and qualified students to complete both the B.S. and M.S. degrees in physics in a time and cost efficient manner. Students in the plan may take up to four courses at the graduate level in their senior year if they have completed the required course prerequisites. These graduate credit hours may be applied toward either the B.S. or M.S. degree, but not both. Additionally, students in the Scholars Plan are expected to begin a graduate research project early in their studies. After admission to the Scholars Plan and successful completion of the B.S. degree in Physics, the Physics Program Graduate Admissions committee will consider waiving the Graduate Record Examination (GRE) requirement for admission into the Physics Graduate Program.

Physics scholars plan application Requirements:

- Applicants may apply for admission to the program during their sophomore, junior or senior year in college.
- Applicants must declare themselves to be Physics majors immediately upon admission.

- Applicants must have completed

 a minimum of 12 credit hours in
 mathematics/science coursework at the
 lower level, including a minimum of
 eight credit hours in physics, and have a
 cumulative mathematics/science GPA of 3.5.
- Applicants must provide a letter of recommendation from a science faculty adviser familiar with the student's coursework.
- Applicants must interview with the Scholars Plan Admissions Committee. After admission, successful continuation in the Scholars Plan will require students to:

After admission, successful continuation in the Scholars Plan will require students to:

- Maintain an overall GPA of 3.0 and Mathematics/Science GPA of 3.0. Failure to maintain these averages will result in a one-semester probation period during which the student must improve his/ her cumulative GPA to 3.0, and their Mathematics/Science GPA to 3.0.
- Participate in a research project as an Independent Study course under the supervision of a graduate faculty adviser during the senior undergraduate year.
- Enroll in the Physics Graduate Program upon completion of the requirements for the B.S. degree.
- Successfully complete a research project as an Independent Study or graduate thesis under the supervision of a graduate faculty adviser as part of their MS degree coursework.

Students who fail to meet any of these requirements will be dropped from the Scholars

Plan, but may continue to pursue the B.S. or M.S. degree. Students who are dropped from the Scholars Program, but who wish to continue to pursue the M.S. degree, must meet the standard application requirements for admission to the Physics Graduate Program.

At the completion of the requirements for each degree the student will be awarded the B.S. and M.S. degrees. A notation will be made on the student's transcript indicating they have completed the Physics Scholars Plan.

In the event a student is unable to complete the entire program of study, they are assured the B.S. degree in Physics upon completion of the requirements for that degree. In the event a student fails to complete the M.S. degree requirements, graduate level classes taken while in the program may be applied toward the B.S. degree.

Pre-Engineering

Students will have the opportunity to explore five different engineering paths. Throughout the program, students will be immersed in the physics, chemistry, mathematics and computer science instruction they need to be prepared for a future in engineering. Pre-Engineering students will also enroll in typical university core curriculum and foundational curriculum courses. After completing the coursework, students may continue at UHCL in an existing degree program. Students may also apply for admission to the University of Houston Cullen College of Engineering upon satisfaction of UH transfer admission standards. Pre-Engineering students may transfer to any other university in the

country pending that institution's admission and course transfer requirements.

Pre-Engineering Requirements

Requirements

These programs require 64–68 hours based on specialization. Programs include University Core requirements and lower level introductory engineering courses. University Core is listed separately in the catalog. Additional University Core requirements may be needed outside of this program depending upon selected specialization.

Transfer to University of Houston

Students who complete a Pre-Engineering specialization at UHCL will be guaranteed acceptance to an Engineering programs at UH-Central if they meet the following GPA criteria:

- · Math GPA 3.0 or better
- · Science GPA 3.0 or better
- English GPA 2.5 or better
- · Cumulative GPA 3.25 or better
- Engineering GPA 3.0 or better

Note: The above GPA requirements for UH–Central will be calculated using all attempted course work. Only the hours and grade points earned on the last attempt will be counted in the UHCL GPA calculation.

Students who do not transfer to UH–Central will have an option to transfer to other universities (pending that institution's admission and course transfer requirements) or continue their education at UHCL.

Specialization in Chemical Engineering Requirements

Semester 1 (17 credits)		
WRIT 1301	Composition I Credit Hours: 3	
HIST 1301	United States History I Credit Hours: 3	
ENGR 1201	Introduction to Engineering Credit Hours: 2	
CHEM 1311	General Chemistry I	
CHEM 1111	Laboratory for General Chemistry I Credit Hours: 1	
MATH 2413	Calculus I Credit Hours: 4	
PSYC 1100	Learning Frameworks Credit Hours: 1	
Semester 2 (18 credits)		
WRIT 1302	Composition II Credit Hours: 3	
CHEM 1312	General Chemistry II Credit Hours: 3	
CHEM 1112	Laboratory for General Chemistry II Credit Hours: 1	
COMM 1315	Public Speaking Credit Hours: 3	
PHYS 2325	University Physics I Credit Hours: 3	
PHYS 2125	Laboratory for University Physics I Credit Hours: 1	
MATH 2414	Calculus II	
Semester 3 (17 credits)		
POLS 2305	Federal Government Credit Hours: 3	
PHYS 2326	University Physics II Credit Hours: 3	
PHYS 2126	Laboratory for University Physics II Credit Hours: 1	
MATH 2315	Calculus III Credit Hours: 3	
CHEM 2323	Organic Chemistry I Credit Hours: 3	

CHEM 2123	Laboratory for Organic Chemistry I
STAT 3334	Probability and Statistics for Scientists and Engineers Credit Hours: 3
Semester 4 (16 credits)	
POLS 2306	Texas Government Credit Hours: 3
MENG 2334	Thermodynamics I Credit Hours: 3
MATH 2320	Differential Equations Credit Hours: 3
CHEM 2325	Organic Chemistry II Credit Hours: 3
CHEM 2125	Laboratory for Organic Chemistry II Credit Hours: 1
HIST 1302	United States History II Credit Hours: 3

Specialization in Civil Engineering Requirements

Semester 1 (17 credits)		
WRIT 1301	Composition I Credit Hours: 3	
HIST 1301	United States History I Credit Hours: 3	
ENGR 1201	Introduction to Engineering Credit Hours: 2	
CHEM 1311	General Chemistry I	
CHEM 1111	Laboratory for General Chemistry I Credit Hours: 1	
MATH 2413	Calculus I Credit Hours: 4	
PSYC 1100	Learning Frameworks Credit Hours: 1	
Semester 2 (17 credits)		
WRIT 1302	Composition II Credit Hours: 3	
ENGR 1304	Engineering Graphics I Credit Hours: 3	
COMM 1315	Public Speaking Credit Hours: 3	

PHYS 2325	University Physics I Credit Hours: 3
PHYS 2125	Laboratory for University Physics I Credit Hours: 1
MATH 2414	Calculus II
Semester 3 (16 credits)	
POLS 2305	Federal Government Credit Hours: 3
PHYS 2326	University Physics II Credit Hours: 3
PHYS 2126	Laboratory for University Physics II Credit Hours: 1
MATH 2315	Calculus III Credit Hours: 3
MENG 2301	Statics Credit Hours: 3
CSCI 1370	Software Development with Java Credit Hours: 3
CSCI 1320	C Programming Credit Hours: 3
Additional Information	

Additional Information

Students may take either CSCI 1370 or CSCI 1320.

Semester 4 (15 credits)	
POLS 2306	Texas Government Credit Hours: 3
WRIT 3315	Advanced Technical Writing Credit Hours: 3
MATH 2320	Differential Equations Credit Hours: 3
HIST 1302	United States History II Credit Hours: 3
MENG 2302	Dynamics Credit Hours: 3

Specialization in Electrical Engineering Requirements

Semester 1 (17 credits hours)	
WRIT 1301	Composition I Credit Hours: 3
HIST 1301	United States History I Credit Hours: 3

ENGR 1201	Introduction to Engineering Credit Hours: 2
CHEM 1311	General Chemistry I
CHEM 1111	Laboratory for General Chemistry I Credit Hours: 1
MATH 2413	Calculus I Credit Hours: 4
PSYC 1100	Learning Frameworks Credit Hours: 1
Semester 2 (17 credits)	
WRIT 1302	Composition II Credit Hours: 3
MATH 2305	Discrete Mathematics
COMM 1315	Public Speaking Credit Hours: 3
PHYS 2325	University Physics I Credit Hours: 3
PHYS 2125	Laboratory for University Physics I Credit Hours: 1
MATH 2414	Calculus II
Semester 3 (17 credits)	
POLS 2305	Federal Government Credit Hours: 3
PHYS 2326	University Physics II Credit Hours: 3
PHYS 2126	Laboratory for University Physics II Credit Hours: 1
MATH 2315	Calculus III Credit Hours: 3
CENG 3312	Digital Circuits Credit Hours: 3
CENG 3112	Laboratory for Digital Circuits Credit Hours: 1
CSCI 1370	Software Development with Java Credit Hours: 3
CSCI 1320	C Programming Credit Hours: 3
Additional Information Students may take either CSCI 1370 or CSCI 1320.	
Semester 4 (16 credits)	
POLS 2306	Texas Government Credit Hours: 3

WRIT 3315	Advanced Technical Writing Credit Hours: 3
MATH 2320	Differential Equations Credit Hours: 3
CENG 3313	Linear Circuits Credit Hours: 3
CENG 3113	Laboratory for Linear Circuits Credit Hours: 1
MATH 2318	Linear Algebra Credit Hours: 3

Specialization in Industrial Engineering Requirements

Semester 1 (17 credits)	
WRIT 1301	Composition I Credit Hours: 3
HIST 1301	United States History I Credit Hours: 3
ENGR 1201	Introduction to Engineering Credit Hours: 2
CHEM 1311	General Chemistry I
CHEM 1111	Laboratory for General Chemistry I Credit Hours: 1
MATH 2413	Calculus I Credit Hours: 4
PSYC 1100	Learning Frameworks Credit Hours: 1
Semester 2 (17 credits)	
WRIT 1302	Composition II Credit Hours: 3
ENGR 1304	Engineering Graphics I
	Credit Hours: 3
COMM 1315	Credit Hours: 3 Public Speaking Credit Hours: 3
COMM 1315 PHYS 2325	Public Speaking
	Public Speaking Credit Hours: 3 University Physics I
PHYS 2325	Public Speaking Credit Hours: 3 University Physics I Credit Hours: 3 Laboratory for University Physics I

POLS 2305	Federal Government Credit Hours: 3
PHYS 2326	University Physics II Credit Hours: 3
PHYS 2126	Laboratory for University Physics II Credit Hours: 1
MATH 2315	Calculus III Credit Hours: 3
ECON 2301	Principles of Macroeconomics Credit Hours: 3
ECON 2302	Principles of Microeconomics Credit Hours: 3
STAT 3334	Probability and Statistics for Scientists and Engineers Credit Hours: 3

Additional Information

Students may take either ECON 2301 or ECON 2302.

Semester 4 (14 credits)	
POLS 2306	Texas Government Credit Hours: 3
WRIT 3315	Advanced Technical Writing Credit Hours: 3
MATH 2320	Differential Equations Credit Hours: 3
CENG 3264	Engineering Design and Project Management
HIST 1302	United States History II Credit Hours: 3

Specialization in Mechanical Engineering Requirements

Semester 1 (17 credits)	
WRIT 1301	Composition I Credit Hours: 3
HIST 1301	United States History I Credit Hours: 3
ENGR 1201	Introduction to Engineering Credit Hours: 2
CHEM 1311	General Chemistry I
CHEM 1111	Laboratory for General Chemistry I Credit Hours: 1

MATH 2413	Calculus I Credit Hours: 4	
PSYC 1100	Learning Frameworks Credit Hours: 1	
Semester 2 (17 credits)		
WRIT 1302	Composition II Credit Hours: 3	
ENGR 1304	Engineering Graphics I Credit Hours: 3	
COMM 1315	Public Speaking Credit Hours: 3	
PHYS 2325	University Physics I Credit Hours: 3	
PHYS 2125	Laboratory for University Physics I Credit Hours: 1	
MATH 2414	Calculus II	
Semester 3 (16 credits)		
POLS 2305	Federal Government Credit Hours: 3	
PHYS 2326	University Physics II Credit Hours: 3	
PHYS 2126	Laboratory for University Physics II Credit Hours: 1	
MATH 2315	Calculus III Credit Hours: 3	
MENG 2301	Statics Credit Hours: 3	
MATH 2318	Linear Algebra Credit Hours: 3	
Semester 4 (18 credits)		
POLS 2306	Texas Government Credit Hours: 3	
WRIT 3315	Advanced Technical Writing Credit Hours: 3	
MATH 2320	Differential Equations Credit Hours: 3	
MENG 2361	Introduction to Mechanical Design Credit Hours: 3	
MENG 2302	Dynamics Credit Hours: 3	
MENG 2334	Thermodynamics I Credit Hours: 3	

Professional Accounting Integrated B.S. and M.S.

The integrated bachelor of science and master of science degrees in Professional Accounting are designed for focused entering undergraduate students who know they want to meet the requirements to sit for the CPA examination and pursue a professional career in accounting.

The objective of the integrated plan is to provide students with the required background to sit for the CPA examination and to provide a basis for exercising judgment in accounting-related and business decisions within administrative, managerial and professional positions as well as enhance rapid career development.

Students must apply to the graduate program, take the GMAT exam (unless a waiver is met) and meet all graduate accounting entrance requirements by the first semester of their senior year. Professional Accounting M.S. applicants meeting all the following criteria will qualify for the waiver of the GMAT exam:

- 3.0 cumuliave GPA on upper division courses at UHCL (minimum of 24 hours required)
- 2. 3.0 GPA on upper division courses at UHCL (minimum of 12 hours required).

In addition, students in the integrated degree program will be required to have a cumulative UHCL GPA of at least 3.000 for admission to the M.S. in Professional Accounting. The B.S. in Professional Accounting will not be awarded until all requirements for the M.S. are completed. Students failing to be admitted into the graduate

Professional Accounting program will revert to the 120-hour B.S. in Accounting degree program and proceed in the normal manner to graduation. Students planning on taking the CPA examination are required to have a 3-semester credit hour ethics course, which has been approved by the Texas State Board of Public Accountancy (TSBPA). ACCT 4346 Ethics for Accountants has been approved by TSBPA and satisfies the ethic course requirement.

The integrated B.S. and M.S. in Professional Accounting degre program wil include 114 hours of undergraduate and 36 hours of graduate course work.

University Core Requirements (42 Hours)

Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
MATH 1324	Mathematics for Business and Social Sciences. Credit Hours: 3	
Life and Physical Sciences (6 hours)		
Choose two course from the approved l	ist	
ASTR 1303	Stars and Galaxies Credit Hours: 3	
ASTR 1304	Solar System Credit Hours: 3	
BIOL 1306	Biology for Science Majors I Credit Hours: 3	
BIOL 1307	Biology for Science Majors II Credit Hours: 3	
BIOL 1308	Biology for Non-Science Majors I	

BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3	
BIOL 2301	Anatomy & Physiology I Credit Hours: 3	
BIOL 2302	Anatomy & Physiology II Credit Hours: 3	
CHEM 1305	Introductory Chemistry I Credit Hours: 3	
CHEM 1311	General Chemistry I	
CHEM 1312	General Chemistry II Credit Hours: 3	
ENSC 1301	Environmental Science I Credit Hours: 3	
ENSC 1302	Environmental Science II Credit Hours: 3	
GEOL 1303	Physical Geology Credit Hours: 3	
GEOL 1304	Historical Geology Credit Hours: 3	
PHYS 1301	College Physics I Credit Hours: 3	
PHYS 1302	College Physics II Credit Hours: 3	
PHYS 2325	University Physics I Credit Hours: 3	
PHYS 2326	University Physics II Credit Hours: 3	
Language, Philosophy and Cultur	e (3 hours)	
Choose one course from the approved li	st	
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
Choose one course from the approved list		
ARTS 1303	World Art Survey I Credit Hours: 3	

ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
American History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social and Behavioral Sciences (3 hours) Choose one course from the approved list		
ECON 2301	Principles of Macroeconomics Credit Hours: 3	
Additional Information Other courses may meet this requirement, however, ECON 2301 will still be required for all Business majors.		
Component Area Option (6 hours)		
Two 1- hour Life and Physical Science Labs		
COMM 1315	Public Speaking Credit Hours: 3	
PSYC 1100	Learning Frameworks Credit Hours: 1	

College Core Requirements (48 hours)

The following courses, or their approved equivalents, together with accounting and economics principles and business law, constitute the business core and are required of all business students. No more than 6 hours of grades in the range of D+, D or D- are permitted in Upper-Level (33XX and 43XX) Business Core Requirements.

Core Requirements for Business Majors (48 hours)

ACCT 2301	Principles of Accounting I - Financial Credit Hours: 3
ACCT 2302	Principles of Accounting II- Managerial Credit Hours: 3
BAPA 1301	Business Principles Credit Hours: 3
ECON 2302	Principles of Microeconomics Credit Hours: 3
ISAM 1305	Business Computer Applications Credit Hours: 3
LEGL 2301	Legal Environment of Business Credit Hours: 3
MATH 1325	Calculus for Business and Social Sciences Credit Hours: 3
DSCI 3321	Statistics I Credit Hours: 3
DSCI 3331	Quantitative Methods for Management Credit Hours: 3
ECON 3311	Money and Banking Credit Hours: 3
FINC 3331	Business Finance Credit Hours: 3
ISAM 3303	Information Systems for Management Credit Hours: 3
MGMT 3301	Management Theory and Practice Credit Hours: 3
MGMT 4312	Strategic Management (Capstone) Credit Hours: 3
MKTG 3301	Principles of Marketing Credit Hours: 3
WRIT 3312	Written Communications in Business Credit Hours: 3

MGMT 4312 Capstone course--requires permission.

Major Requirements (21 hours)

All major requirements must be grades of C- or higher

Undergraduate Courses

ACCT 3333	Cost Accounting Credit Hours: 3
ACCT 3341	Intermediate Accounting I Credit Hours: 3
ACCT 3342	Intermediate Accounting II Credit Hours: 3
ACCT 4331	Federal Taxation of Individuals Credit Hours: 3
ACCT 4332	Financial Information Systems Credit Hours: 3
ACCT 4341	Auditing I Credit Hours: 3

Undergraduate Electives

3 hour of Undergraduate ACCT Elective Upper-Level, 33XX or 43XX 3 hour Undergraduate BUS Elective Upper-Level, 33XX or 43XX

Additional Information

ACCT 3331 & ACCT 3332 can never be used as ACCT Electives

Graduate Courses	
ACCT 4346	Business Ethics for Accountants Credit Hours: 3
ACCT 5234	Corporate and Pass Through Entity Taxation Credit Hours: 3
ACCT 5431	Advanced Accounting Credit Hours: 3
ACCT 5432	Acct for Govt & Not Profit Credit Hours: 3
ACCT 6732	Seminar in Fraud Examination and Audit Risk (Capstone)
LEGL 5131	Legal Concepts for the Business Professional Credit Hours: 3

Graduate Electives

9 hours of ACCT Electives Graduate Level, 5XXX or 6XXX6 hours of BUS Electives Graduate Level, 5XXX or 6XXX3 hour FINC Elective Graduate Level, 5XXX or 6XXX

Additional Information

Course work at the 33XX or 43XX level and graduate foundation courses may not be included in the 18 hours of graduate ACCT, FINC or BUS electives.

Professional Accounting Integrated B.S./M.S. with a Concentration in Management Information Systems

The integrated bachelor of science and master of science degrees in Professional Accounting are designed for focused entering undergraduate students who know they want to meet the requirements to sit for the CPA examination and pursue a professional career in accounting.

The objective of the integrated plan is to provide students with the required background to sit for the CPA examination and to provide a basis for exercising judgment in accounting-related and business decisions within administrative, managerial and professional positions as well as enhance rapid career development.

Students must apply to the graduate program, take the GMAT exam (unless a waiver is met) and meet all graduate accounting entrance requirements by the first semester of their senior year. Professional Accounting M.S. applicants meeting all the following criteria will qualify for the waiver of the GMAT exam:

- 3.0 cumuliave GPA on upper division courses at UHCL (minimum of 24 hours required).
- 2. 3.0 GPA on upper division courses at UHCL (minimum of 12 hours required).

In addition, students in the integrated degree program will be required to have a cumulative UHCL GPA of at least 3.000 for admission to the M.S. in Professional Accounting. The B.S. in Professional Accounting will not be awarded until all requirements for the M.S. are completed. Students failing to be admitted into the graduate Professional Accounting program will revert to the 120-hour B.S. in Accounting degree program and proceed in the normal manner to graduation. Students planning on taking the CPA examination are required to have a 3semester credit hour ethics course, which has been approved by the Texas State Board of Public Accountancy (TSBPA). ACCT 4346 Ethics for Accountants has been approved by TSBPA and satisfies the ethic course requirement.

The integrated B.S. and M.S. in Professional Accounting degree program will include 114 hours of undergraduate and 36 hours of graduate course work.

Students in the integrated Professional Accounting degree program may complete a Concentration in Management Information Systems by completing a set combination of undergraduate and graduate course work.

University Core Requirements (42 Hours)

Communication (6 hours)	
WRIT 1301	Composition I Credit Hours: 3
WRIT 1302	Composition II Credit Hours: 3
Additional Information WRIT 1301 and WRIT 1302 must be "C-" or better.	
Mathematics (3 hours)	

MATH 1324	Mathematics for Business and Social
	Sciences.
	Credit Hours: 3

Additional Information

Math 1324 must be "C-" or better.

Life and Physical Sciences (6 hours)	
Choose two course from the approved l	ist
ASTR 1303	Stars and Galaxies Credit Hours: 3
ASTR 1304	Solar System Credit Hours: 3
BIOL 1306	Biology for Science Majors I Credit Hours: 3
BIOL 1307	Biology for Science Majors II Credit Hours: 3
BIOL 1308	Biology for Non-Science Majors I
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3
BIOL 2301	Anatomy & Physiology I Credit Hours: 3
BIOL 2302	Anatomy & Physiology II Credit Hours: 3
CHEM 1305	Introductory Chemistry I Credit Hours: 3
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II Credit Hours: 3
ENSC 1301	Environmental Science I Credit Hours: 3
ENSC 1302	Environmental Science II Credit Hours: 3
GEOL 1303	Physical Geology Credit Hours: 3
GEOL 1304	Historical Geology Credit Hours: 3
PHYS 1301	College Physics I Credit Hours: 3
PHYS 1302	College Physics II Credit Hours: 3
PHYS 2325	University Physics I Credit Hours: 3
PHYS 2326	University Physics II Credit Hours: 3

Language, Philosophy and Culti	ure (3 hours)	
Choose one course from the approved	list	
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
Choose one course from the approved	list	
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
American History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science	(6 hours)	
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social and Behavioral Sciences (3 hours) Choose one course from the approved list		
ECON 2301	Principles of Macroeconomics Credit Hours: 3	
Additional Information Other courses may meet this requirement, however, ECON 2301 will still be required for all Business majors.		
Component Area Option (6 hours)		
Two 1- hour Life and Physical Science	2 Labs	
COMM 1315	Public Speaking Credit Hours: 3	

PSYC 1100	Learning Frameworks
	Credit Hours: 1

College Core Requirements (48 hours)

The following courses, or their approved equivalents, together with accounting and economics principles and business law, constitute the business core and are required of all business students. No more than 6 hours of grades in the range of D+, D or D- are permitted in Upper-Level (33XX and 43XX) Business Core Requirements.

Core Requirements for Business Majors (48 hours)	
ACCT 2301	Principles of Accounting I - Financial Credit Hours: 3
ACCT 2302	Principles of Accounting II- Managerial Credit Hours: 3
BAPA 1301	Business Principles Credit Hours: 3
ECON 2302	Principles of Microeconomics Credit Hours: 3
ISAM 1305	Business Computer Applications Credit Hours: 3
LEGL 2301	Legal Environment of Business Credit Hours: 3
MATH 1325	Calculus for Business and Social Sciences Credit Hours: 3
DSCI 3321	Statistics I Credit Hours: 3
DSCI 3331	Quantitative Methods for Management Credit Hours: 3
ECON 3311	Money and Banking Credit Hours: 3
FINC 3331	Business Finance Credit Hours: 3
ISAM 3303	Information Systems for Management Credit Hours: 3
MGMT 3301	Management Theory and Practice Credit Hours: 3

MGMT 4312	Strategic Management (Capstone) Credit Hours: 3
MKTG 3301	Principles of Marketing Credit Hours: 3
WRIT 3312	Written Communications in Business Credit Hours: 3
Additional Information MGMT 4312 Capstone courserequires permission.	

Major Requirements (21 hours)

All major requirements must be grades of C- or higher

Undergraduate Courses	
ACCT 3333	Cost Accounting Credit Hours: 3
ACCT 3341	Intermediate Accounting I Credit Hours: 3
ACCT 3342	Intermediate Accounting II Credit Hours: 3
ACCT 4331	Federal Taxation of Individuals Credit Hours: 3
ACCT 4332	Financial Information Systems Credit Hours: 3
ACCT 4341	Auditing I Credit Hours: 3
ISAM 3304	Introduction to Business Applications Programming Credit Hours: 3

Undergraduate Electives

3 hours Undergraduate ACCT Elective (Any one ACCT 33XX or 43XX)

Additional Information

ACCT 3331 & ACCT 3332 can never be used as ACCT Electives

Graduate Courses	
ACCT 4346	Business Ethics for Accountants Credit Hours: 3
ACCT 5234	Corporate and Pass Through Entity Taxation Credit Hours: 3

ACCT 5431	Advanced Accounting Credit Hours: 3
ACCT 5432	Acct for Govt & Not Profit Credit Hours: 3
ACCT 6732	Seminar in Fraud Examination and Audit Risk (Capstone)
LEGL 5131	Legal Concepts for the Business Professional Credit Hours: 3

Graduate Electives

6 hours of BUS Electives Graduate Level, 5XXX or 6XXX 3 hour FINC Elective Graduate Level, 5XXX or 6XXX

MIS Concentration Requirements	
Select three from the following five courses (9 hours)	
ACCT 5333	Fundamentals of Database Design and Development Credit Hours: 3
ACCT 5334	Advanced Database Applications Development Credit Hours: 3
ACCT 5335	Information Systems Audit and Security Credit Hours: 3
ACCT 5336	Systems Analysis and Design Credit Hours: 3
ACCT 5337	ERP System Concepts and Practices Credit Hours: 3

Psychology B.S.

The undergraduate General Psychology Program at UHCL provides a high-quality curriculum that meets student career goals and community needs. Students have the opportunity to receive a comprehensive overview of psychology, develop academic and critical thinking skills, reach career goals, uphold ethical standards, and become life-long learners.

University Core Requirements (42 Hours)

Communication (6 hours)

WRIT 1301	Composition I Credit Hours: 3
WRIT 1302	Composition II Credit Hours: 3
Mathematics (3 hours)	
Choose ONE of the following courses.	
MATH 1314	College Algebra Credit Hours: 3
MATH 1332	Contemporary Mathematics Credit Hours: 3
Life and Physical Sciences (6 ho	urs)
Choose TWO of the following courses.	
ASTR 1303	Stars and Galaxies Credit Hours: 3
ASTR 1304	Solar System Credit Hours: 3
BIOL 1306	Biology for Science Majors I Credit Hours: 3
BIOL 1307	Biology for Science Majors II Credit Hours: 3
BIOL 1308	Biology for Non-Science Majors I
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3
BIOL 2301	Anatomy & Physiology I Credit Hours: 3
BIOL 2302	Anatomy & Physiology II Credit Hours: 3
CHEM 1305	Introductory Chemistry I Credit Hours: 3
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II Credit Hours: 3
ENSC 1301	Environmental Science I Credit Hours: 3
ENSC 1302	Environmental Science II Credit Hours: 3
GEOL 1303	Physical Geology Credit Hours: 3
GEOL 1304	Historical Geology Credit Hours: 3
PHYS 1301	College Physics I Credit Hours: 3

PHYS 1302	College Physics II Credit Hours: 3	
PHYS 2325	University Physics I Credit Hours: 3	
PHYS 2326	University Physics II Credit Hours: 3	
Language, Philosophy and Cultur	e (3 hours)	
Choose ONE of the following courses.		
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
Choose ONE of the following courses.		
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
U.S. History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social Behavioral Sciences (3 hours)		
Choose ONE of the following courses.		
ANTH 2346	General Anthropology Credit Hours: 3	
CDIM see		

Introduction to Criminal Justice

Credit Hours: 3

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CRIM 1301

ECON 2301	Principles of Macroeconomics Credit Hours: 3	
ECON 2302	Principles of Microeconomics Credit Hours: 3	
GEOG 1303	World Regional Geography Credit Hours: 3	
PSYC 2301	Introduction to Psychology Credit Hours: 3	
SOCI 1301	Introduction to Sociology Credit Hours: 3	
Public Speaking (3 hours)		
COMM 1315	Public Speaking Credit Hours: 3	
Component Area Options (3 hours)		
Two 1- hour Life and Physical Science Labs - required co-requisites for the chosen science courses.		
PSYC 1100	Learning Frameworks Credit Hours: 1	

College Core Requirements (9 hours)

48 hours of upper-level credit must be "C" or better.

Core Requirement (3 hours)	
Choose ONE of the following courses.	
WRIT 3306	Writing for the Social Sciences Credit Hours: 3
WRIT 3307	Advanced Writing Credit Hours: 3

Major Requirements (48 hours)

Choose ONE of the following courses.	
HUMN 3374	Critical Inquiry Credit Hours: 3
HUMN 3375	Ideas in Transition Credit Hours: 3
PHIL 3331	Ethics Credit Hours: 3
PHIL 4314	The Great Philosophers I Credit Hours: 3

PHIL 4315	The Great Philosophers II Credit Hours: 3	
Diversity Requirement		
Choose TWO of the following courses. For ANTH 4341, the following may be substituted: SOCI 4341 or WGST 4341For PSYC 4356, the following may be substituted: SOCI 4356		
ANTH 3355	Topics in Asian Studies Credit Hours: 3	
ANTH 3357	Topics in African Studies Credit Hours: 3	
ANTH 3358	Topics in Middle Eastern Societies Credit Hours: 3	
ANTH 4301	Studies in Cultural Diversity Credit Hours: 3	
ANTH 4333	Peoples of Mexico and Central America Credit Hours: 3	
ANTH 4341	Gender and Sexuality in Global Perspectives Credit Hours: 3	
PSYC 4308	Perspectives in Women's and Gender Studies Credit Hours: 3	
PSYC 4334	Psychology of Women Credit Hours: 3	
PSYC 4356	The Aging Experience Credit Hours: 3	
SOCI 3352	Urban Sociology Credit Hours: 3	
SOCI 4316	Women and the Law Credit Hours: 3	
SOCI 4317	Race and the Law Credit Hours: 3	
SOCI 4355	Minorities in America Credit Hours: 3	
SWRK 3324	Oppression, Diversity, and Social Justice Credit Hours: 3	
Choose ONE of the following courses.		
ANTH 3311	Contemporary Cultural Anthropology Credit Hours: 3	
ANTH 3361	Anthropology of Food Credit Hours: 3	
ANTH 3362	Medicine, Bodies, and Culture Credit Hours: 3	

ANTH 4351	Families, Communities, and Globalization Credit Hours: 3
Choose ONE of the following courses.	
SOCI 4312	Social Structure: Class, Power, and Status Credit Hours: 3
SOCI 4322	Theories of Society Credit Hours: 3
Psychology Required Courses (18 hours)	

rsychology Required Courses (18 hours)	
PSYC 2301	Introduction to Psychology Credit Hours: 3
PSYC 3311	Careers and Writing in Psychology Credit Hours: 3
PSYC 3315	Psychological Thinking Credit Hours: 3
PSYC 4370	Nonexperimental Methods and Statistics Credit Hours: 3
PSYC 4371	Experimental Methods and Statistics Credit Hours: 3
PSYC 4392	Capstone in Psychology Credit Hours: 3

Additional Information

- PSYC 3311 must be taken during the first semester of the junior year and must be completed with a grade of B- or better to count for the major.
- PSYC 4392 must be taken during the final semester, and must be completed with a grade of B- or better to count for the major.

Psychology Core Requirements (9 hours)

Choose 3 courses from at least 3 different core areas:

Core I	
PSYC 3331	Theories of Personality Credit Hours: 3
PSYC 4311	Social Psychology Credit Hours: 3
Core II	
PSYC 4314	Child Psychology Credit Hours: 3

PSYC 4315	Adolescent Psychology Credit Hours: 3
Core III	
PSYC 3321	Learning Credit Hours: 3
PSYC 4382	Cognitive Psychology Credit Hours: 3
Core IV	
PSYC 4316	Brain and Behavior Credit Hours: 3

Psychology Required Electives (2 courses)	
Choose 3300/4300 level Psychology courses. These may be additional courses chosen from Core areas I-IV. (see above)	
Elective Courses (27 hours)	
Choose electives from any level 1300-4300.	

Public Service Leadership B.S.

The major in Public Service Leadership serves students seeking leadership preparation for careers in public service. Public service leaders may be administrators, trainers, public officials, or leaders in municipal fire, emergency management, and police departments. This major provides students with knowledge and skills pertaining to leadership, managerial principles, conflict resolution, strategic planning, and organizational communication.

University Core Requirements (42 Hours)

Communication (6 hours)

WRIT 1301	Composition I Credit Hours: 3
WRIT 1302	Composition II Credit Hours: 3
Mathematics (3 hours)	
Choose ONE of the following courses.	
MATH 1314	College Algebra Credit Hours: 3
MATH 1332	Contemporary Mathematics Credit Hours: 3
Life and Physical Sciences (6 ho	urs)
Choose TWO of the following courses.	
ASTR 1303	Stars and Galaxies Credit Hours: 3
ASTR 1304	Solar System Credit Hours: 3
BIOL 1306	Biology for Science Majors I Credit Hours: 3
BIOL 1307	Biology for Science Majors II Credit Hours: 3
BIOL 1308	Biology for Non-Science Majors I
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3
BIOL 2301	Anatomy & Physiology I Credit Hours: 3
BIOL 2302	Anatomy & Physiology II Credit Hours: 3
CHEM 1305	Introductory Chemistry I Credit Hours: 3
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II Credit Hours: 3
ENSC 1301	Environmental Science I Credit Hours: 3
ENSC 1302	Environmental Science II Credit Hours: 3
GEOL 1303	Physical Geology Credit Hours: 3
GEOL 1304	Historical Geology Credit Hours: 3
PHYS 1301	College Physics I Credit Hours: 3

PHYS 1302	College Physics II Credit Hours: 3	
PHYS 2325	University Physics I Credit Hours: 3	
PHYS 2326	University Physics II Credit Hours: 3	
Language, Philosophy and Cultur	re (3 hours)	
Choose ONE of the following courses.		
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
Choose ONE of the following courses.		
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
U.S. History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social Behavioral Sciences (3 hours)		
Choose ONE of the following courses.		
ANTH 2346	General Anthropology Credit Hours: 3	
CRIM 1301	Introduction to Criminal Justice	

Credit Hours: 3

ECON 2301	Principles of Macroeconomics Credit Hours: 3	
ECON 2302	Principles of Microeconomics Credit Hours: 3	
GEOG 1303	World Regional Geography Credit Hours: 3	
PSYC 2301	Introduction to Psychology Credit Hours: 3	
SOCI 1301	Introduction to Sociology Credit Hours: 3	
Public Speaking (3 hours)		
COMM 1315	Public Speaking Credit Hours: 3	
Component Area Options (3 hours)		
Two 1- hour Life and Physical Science Labs - required co-requisites for the chosen science courses.		
PSYC 1100	Learning Frameworks Credit Hours: 1	

College Core Requirements (3 hours)

48 hours of upper–level credit must be "C" or better.

Overview Requirement

Choose ONE course from: Any PSYC, ANTH, SOCI, or CRIM course at the 3300 or 4300 level.

Major Requirements (54 hours)

Choose THREE of the following courses. (9 hours)	
For CRIM 3312, the following may be substituted: SOCI 3312For PSYC 4311, the following may be substituted: SOCI 4311	
ANTH 3311	Contemporary Cultural Anthropology Credit Hours: 3
CRIM 3312	Criminology Credit Hours: 3
POLS 3301	Contemporary Issues in Political Science Credit Hours: 3
PSYC 4311	Social Psychology Credit Hours: 3

PSYC 3331	Theories of Personality Credit Hours: 3	
Required Courses (6 hours)		
PSYC 4370	Nonexperimental Methods and Statistics Credit Hours: 3	
PSYC 4371	Experimental Methods and Statistics Credit Hours: 3	
PSL Core Coursework (39 hours)		
PSLD 4325	Budgeting in Public Service Credit Hours: 3	
PSLD 4326	Human Resources Credit Hours: 3	
PSLD 4341	Cultural Competence Credit Hours: 3	
PSLD 4342	Project Management Credit Hours: 3	
PSLD 4343	Public Service Management Credit Hours: 3	
PSLD 4344	Public Service Leadership Credit Hours: 3	
PSLD 4345	Strategic Planning Credit Hours: 3	
PSLD 4347	Managerial Issues in Diversity Credit Hours: 3	
PSLD 4348	Crisis and Emergency Management Credit Hours: 3	
PSLD 4349	Ethics and Law Credit Hours: 3	
PSLD 4350	Senior Seminar: Executive Coaching Credit Hours: 3	
PSLD 4391	Selected Topics in Public Service Leadership Credit Hours: 3	
WRIT 3312	Written Communications in Business Credit Hours: 3	
Elective Requirements (21 hours)		
21 hours of electives (any 1300, 2300, 3300, or 4300 level courses).		

Registered Nurse-Bachelor of Science Nursing B.S.N.

Registered Nurse-Bachelor of Science Nursing B.S.N. Addendum

The RN-BSN program is customized for registered nurses who want to earn a bachelor's degree in nursing. The program provides an opportunity for a registered nurse (RN) to pursue a Bachelor of Science in Nursing (BSN) degree in two to three years depending upon full-time or part-time status. The degree features a primarily didactic program and experiential learning opportunities. Moreover, the program allows registered nurses to enhance their managerial and leadership skills and advance as nurse managers in various healthcare provider and payer organizations. A BSN is a prerequisite for admission to graduate nursing programs in research, consulting, and teaching. The BSN can open doors not only for those seeking academic progression but also for those seeking careers in nursing education.

The BSN program is designed to expand knowledge and skills beyond the clinical aspects of nursing that are generally acquired while preparing for the Associate of Applied Science in Nursing (AASN) diploma and the RN licensure examinations. As such, the BSN program focuses on expanding the horizons of graduates by giving them a much more extensive background in evidence-based practice, patient safety, legal issues, ethical standards, and technology integration as well as healthcare systems and

policies. The BSN will also allow students to receive crucial training in key areas such as communication, leadership, critical thinking, and clinical reasoning: students will therefore gain much-needed knowledge to deal effectively with the complex and changing future of healthcare delivery. In doing so, students will be provided with opportunities to use evidence-based practice to analyze a variety of issues in professional nursing practice that are essential for providing effective leadership in nursing care across the healthcare continuum.

The UHCL BSN program will be offered in two distinct "tracks." There will be a full-time track for RN-BSN students who are capable of taking a full semester load (12-15 course credit hours). There will also be a part-time track (6-9 credit hours) for those nurses who are working and cannot commit to the 12–15 credit hours per semester needed to be full-time students. It is expected that students pursuing the fulltime track will be able to complete the RN-BSN in 4-5 semesters (summers included). Students pursuing the part-time track will be able to complete the RN-BSN in 6-8 semesters (summers included). The majority of Nursing classes will be offered at the Pearland campus during weekdays in the morning, afternoon, and/or early evening time frames.

Applications for acceptance into the BSN program will open generally in the middle to late spring semester. Students accepted for the fall class will be notified starting in mid-June. Students accepted for the spring class will be notified starting in mid-November. Application details are on the Health Science and Humanities (HSH) web page. The typical cohort size is 30 students.

University Core Requirements (42 Hours)

Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
Choose ONE of the following courses.		
MATH 1314	College Algebra Credit Hours: 3	
MATH 1332	Contemporary Mathematics Credit Hours: 3	
MATH 1342	Elementary Statistical Methods Credit Hours: 3	
Life and Physical Sciences (6 hours)		
BIOL 2301	Anatomy & Physiology I Credit Hours: 3	
BIOL 2302	Anatomy & Physiology II Credit Hours: 3	
Language, Philosophy and Culture (3 hours)		
Choose ONE of the following courses.		
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
Choose ONE of the following courses.		
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	

HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)	
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social Behavioral Sciences (3 hours)		
PSYC 2301	Introduction to Psychology Credit Hours: 3	
Public Speaking (3 hours)		
COMM 1315	Public Speaking Credit Hours: 3	
Component Area Option (3 hours)		
PSYC 1100	Learning Frameworks Credit Hours: 1	
BIOL 2101	Laboratory for Anatomy and Physiology I	
BIOL 2102	Laboratory for Anatomy and Physiology II Credit Hours: 1	

In addition to the 42 hours of University Core curriculum above, the Nursing Core requirement below will be allowed for transfer.

Nursing Core Requirements (33 hours)

ADN Nursing courses	
In addition to the courses below, 26 hours of RSNG coursework from an Associate Degree in the Nursing program may be transferred for credit.	
BIOL 2121	Laboratory for Microbiology for Science Majors Credit Hours: 1
BIOL 2321	Microbiology for Science Majors Credit Hours: 3
PSYC 2314	Lifespan and Growth Development Credit Hours: 3

College of Human Sciences and Humanities

30 hours of resident, upper-level credit must be a "C" or better.

Major Requirements (30 hours)

Courses	
One of the courses below must be writing-intensive.	
NURS 3309	Role Transition Credit Hours: 3
NURS 3310	Legal and Ethical Issues Credit Hours: 3
NURS 3311	History and Theories of Nursing Credit Hours: 3
NURS 3313	Community Health Nursing Credit Hours: 3
NURS 3314	Trends and Issues in Nursing Practices Credit Hours: 3
NURS 3323	Community Health Nursing Project Credit Hours: 3
NURS 4313	Nursing Research Credit Hours: 3
NURS 4314	Advanced Leadership and Management Credit Hours: 3
NURS 4324	Advanced Leadership and Management Practicum Credit Hours: 3
PSYC 4370	Nonexperimental Methods and Statistics Credit Hours: 3

Elective Requirements (15 hours)

15 additional hours can be used to fulfill the UHCL residency requirements and/or to compensate for missing University Core Curriculum courses. Choose among the listed 3300/4300 level classes listed below.

BIOL 4346	Pathophysiology Credit Hours: 3
HADM 3311	Foundations of Healthcare Administration Leadership Credit Hours: 3
HLTH 3303	Nutrition and Weight Management Credit Hours: 3

HLTH 3315	Health Promotion Programs Credit Hours: 3
PSYC 3315	Psychological Thinking Credit Hours: 3
PSYC 3332	Family Psychology Credit Hours: 3
PSYC 4337	Violence Against Women Credit Hours: 3
SOCI 4304	Professional Issues in Human Services Credit Hours: 3
SOCI 4308	Perspectives in Women's and Gender Studies Credit Hours: 3
SOCI 4356	The Aging Experience Credit Hours: 3
WRIT 3312	Written Communications in Business Credit Hours: 3

Registered Nurse-Bachelor of Science Nursing B.S.N. Addendum

The RN-BSN program is customized for licensed registered nurses who want to earn a bachelor's degree in nursing. The program provides an opportunity for a registered nurse (RN) to pursue a Bachelor of Science in Nursing (BSN) degree in two to six semesters depending upon fulltime or part-time status. The degree features a primarily didactic program and experiential learning opportunities. Moreover, the program allows registered nurses to enhance their managerial and leadership skills and advance as nurse managers in various healthcare provider and payer organizations. A BSN is a prerequisite for admission to graduate nursing programs in advanced clinical practice and research. The BSN can open doors not only for those seeking

academic progression but also for those seeking careers in nursing education.

The BSN program is designed to expand knowledge and skills beyond the clinical aspects of nursing that are generally acquired while preparing for the Associate of Applied Science in Nursing (AASN) diploma and the RN licensure examinations. As such, the BSN program focuses on expanding the horizons of graduates by giving them a much more extensive background in evidence-based practice, patient safety, legal issues, ethical standards, and technology integration as well as healthcare systems and policies. The BSN will also allow students to receive crucial training in key areas such as communication, leadership, critical thinking, and clinical reasoning: students will therefore gain much-needed knowledge to deal effectively with the complex and changing future of healthcare delivery. In doing so, students will be provided with opportunities to use evidencebased practice to analyze a variety of issues in professional nursing practice that are essential for providing effective leadership in nursing care across the healthcare continuum.

The UHCL BSN program is offered in a full-time track for RN-BSN students who are capable of taking a full semester load (12–15 course credit hours). There is also a part-time track (6–9 credit hours) for those nurses who are working and cannot commit to the 12–15 credit hours per semester needed to be full-time students. It is expected that students pursuing the full-time track will be able to complete the RN-BSN in 2–3 semesters (summers included). Students pursuing the part-time track will be able to complete the RN-BSN in 5–6 semesters (summers included). The Nursing classes will be

offered at the Pearland campus during weekdays in the morning, afternoon, and/or early evening time frames. The 30 upper-level hours in Nursing must be completed in residence.

Students may be admitted to the RN-BSN program in a fall or spring semester; applications are reviewed as they are received. Application details are on the Health Science and Humanities (HSH) web page.

University Core Requirements (42 Hours)

Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
Choose ONE of the following courses.		
MATH 1314	College Algebra Credit Hours: 3	
MATH 1332	Contemporary Mathematics Credit Hours: 3	
MATH 1342	Elementary Statistical Methods Credit Hours: 3	
Life and Physical Sciences (6 hours)		
BIOL 2301	Anatomy & Physiology I Credit Hours: 3	
BIOL 2302	Anatomy & Physiology II Credit Hours: 3	
Language, Philosophy and Culture (3 hours)		
Choose ONE of the following courses.		
HUMN 1301	Humanities Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
PHIL 1301	Introduction to Philosophy Credit Hours: 3	

WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3	
Creative Arts (3 Hours)		
Choose ONE of the following courses.		
ARTS 1303	World Art Survey I Credit Hours: 3	
ARTS 1304	World Art Survey II Credit Hours: 3	
ARTS 2379	Arts and the Child Credit Hours: 3	
U.S. History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social Behavioral Sciences (3 ho	urs)	
PSYC 2301	Introduction to Psychology Credit Hours: 3	
Public Speaking (3 hours)		
COMM 1315	Public Speaking Credit Hours: 3	
Component Area Option (3 hours)		
PSYC 1100	Learning Frameworks Credit Hours: 1	
BIOL 2101	Laboratory for Anatomy and Physiology I	
BIOL 2102	Laboratory for Anatomy and Physiology II Credit Hours: 1	

In addition to the 42 hours of University Core curriculum above, the Nursing Core requirement below will be allowed for transfer.

Nursing Core Requirements (33 hours)

ADN Nursing courses	
In addition to the courses below, 26 hours of RSNG coursework from an Associate Degree in the Nursing program may be transferred for credit.	
BIOL 2121	Laboratory for Microbiology for Science Majors Credit Hours: 1
BIOL 2321	Microbiology for Science Majors Credit Hours: 3
PSYC 2314	Lifespan and Growth Development Credit Hours: 3

College of Human Sciences and Humanities

30 hours of resident, upper-level credit must be a "C" or better.

Major Requirements (30 hours)

Courses	
One of the courses below must be writing	ng-intensive.
NURS 3309	Role Transition Credit Hours: 3
NURS 3310	Legal and Ethical Issues Credit Hours: 3
NURS 3311	History and Theories of Nursing Credit Hours: 3
NURS 3313	Community Health Nursing Credit Hours: 3
NURS 3314	Trends and Issues in Nursing Practices Credit Hours: 3
NURS 3323	Community Health Nursing Project Credit Hours: 3
NURS 4313	Nursing Research Credit Hours: 3
NURS 4314	Advanced Leadership and Management Credit Hours: 3
NURS 4324	Advanced Leadership and Management Practicum Credit Hours: 3
PSYC 4370	Nonexperimental Methods and Statistics Credit Hours: 3

Social Work B.S.W.

The fully accredited undergraduate program in Social Work leads to the Bachelor of Social Work (B.S.W.) degree. Social work foundation content is found in nine interrelated areas: human behavior and the social environment (HBSE); social welfare policy; social work research; social work values and ethics; diversity; promoting social and economic justice; working with populations-at-risk; social work practice; and field placements. Considerable attention is focused on the vulnerable populations found in the Houston/Galveston metropolitan area.

The integration of content focused on diversity, values, ethics, and social justice throughout the curriculum is facilitated by the adoption and implementation of the generalist practice perspective. Generalist practice applies a wide variety of theoretical perspectives reflecting an integrated bio-psycho-social approach, professional values, and ethics and skills with diverse persons, families, groups, organizations, and communities utilizing the Planned Change Process.

Once a student has identified social work as a major, he or she must still meet the following requirements for formal admission to the program:

- Completion of essential elements of Texas Core Requirements (See University Core).
- 2. Completion of Introduction to Psychology with a grade of "C" or higher.
- 3. Completion of Introduction to Sociology with a grade of "C" or higher.

- 4. Completion of one of the following natural science courses (with a lab): General Biology; Anatomy & Physiology; General Biology for non-science majors; or The Human Body.
- 5. Completion of SWRK 3301 with a grade of "C" or higher.
- 6. Completion of SWRK 3304 with a grade of "C" or higher.
- 7. Cumulative grade point average of 2.500 or higher.

Students are encouraged to meet with UHCL BSW program faculty early in the process when considering a social work major in order to expedite graduation. For any updates regarding accreditation-related curricular changes, please contact the BSW program faculty.

Once all prerequisites for admission have been completed, a student may apply for formal admission to the BSW program at any time throughout the academic year. The application packet must include the following documents and information:

- Admission Application and corresponding Checklist.
- 2. An unofficial copy of all college transcripts
- 3. 3 letters of recommendation from previous instructors or work supervisors
- 4. A 4-6 page autobiographical statement. Applicants should be certain that their autobiographical statement is a strong sample of their ability to express themselves in writing. The statement should include a description of the student's educational, professional, and/ or life goals; personal and professional

objectives; social work or human service experience; contact, exposure to, or experience with diverse groups; and any other information the student believes may be important when considering his/her application for admission to the program.

Application packets are available on the BSW program website, at the HSH Office of Advising, and through program faculty.

University Core Requirements (42 Hours)

Communication (6 hours)

Communication (6 nours)	
WRIT 1301	Composition I Credit Hours: 3
WRIT 1302	Composition II Credit Hours: 3
Mathematics (3 hours)	
Choose ONE of the following courses.	
MATH 1314	College Algebra Credit Hours: 3
MATH 1332	Contemporary Mathematics Credit Hours: 3
Life and Physical Sciences (6 ho	urs)
Choose between BIOL 1306 or BIOL 1306 chose ONE more course from the appro	8.In addition to BIOL 1306 or BIOL 1308 ved list.
ASTR 1303	Stars and Galaxies Credit Hours: 3
ASTR 1304	Solar System Credit Hours: 3
BIOL 1306	Biology for Science Majors I Credit Hours: 3
BIOL 1307	Biology for Science Majors II Credit Hours: 3
BIOL 1308	Biology for Non-Science Majors I
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3
BIOL 2301	Anatomy & Physiology I Credit Hours: 3

BIOL 2302	Anatomy & Physiology II Credit Hours: 3
CHEM 1305	Introductory Chemistry I Credit Hours: 3
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II Credit Hours: 3
ENSC 1301	Environmental Science I Credit Hours: 3
ENSC 1302	Environmental Science II Credit Hours: 3
GEOL 1303	Physical Geology Credit Hours: 3
GEOL 1304	Historical Geology Credit Hours: 3
PHYS 1301	College Physics I Credit Hours: 3
PHYS 1302	College Physics II Credit Hours: 3
PHYS 2325	University Physics I Credit Hours: 3
PHYS 2326	University Physics II
	Credit Hours: 3
Language, Philosophy and Cultur	Credit Hours: 3
	Credit Hours: 3
Language, Philosophy and Cultur	Credit Hours: 3
Language, Philosophy and Culture Choose ONE of the following courses.	e (3 hours) Humanities
Language, Philosophy and Culture Choose ONE of the following courses. HUMN 1301	Credit Hours: 3 e (3 hours) Humanities Credit Hours: 3 Literature and Experience
Language, Philosophy and Culture Choose ONE of the following courses. HUMN 1301 LITR 2341	e (3 hours) Humanities Credit Hours: 3 Literature and Experience Credit Hours: 3 Introduction to Philosophy
Language, Philosophy and Culture Choose ONE of the following courses. HUMN 1301 LITR 2341 PHIL 1301	Credit Hours: 3 e (3 hours) Humanities Credit Hours: 3 Literature and Experience Credit Hours: 3 Introduction to Philosophy Credit Hours: 3 Gender Matters: Introduction to Women's and Gender Studies
Language, Philosophy and Cultur Choose ONE of the following courses. HUMN 1301 LITR 2341 PHIL 1301 WGST 1301	Credit Hours: 3 e (3 hours) Humanities Credit Hours: 3 Literature and Experience Credit Hours: 3 Introduction to Philosophy Credit Hours: 3 Gender Matters: Introduction to Women's and Gender Studies
Language, Philosophy and Culture Choose ONE of the following courses. HUMN 1301 LITR 2341 PHIL 1301 WGST 1301 Creative Arts (3 Hours)	Credit Hours: 3 e (3 hours) Humanities Credit Hours: 3 Literature and Experience Credit Hours: 3 Introduction to Philosophy Credit Hours: 3 Gender Matters: Introduction to Women's and Gender Studies
Language, Philosophy and Culture Choose ONE of the following courses. HUMN 1301 LITR 2341 PHIL 1301 WGST 1301 Creative Arts (3 Hours) Choose ONE of the following courses.	Credit Hours: 3 Re (3 hours) Humanities Credit Hours: 3 Literature and Experience Credit Hours: 3 Introduction to Philosophy Credit Hours: 3 Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3

U.S. History (6 hours)		
HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social Behavioral Sciences (3 hours)		
Grade must be "C" or better.		
PSYC 2301	Introduction to Psychology Credit Hours: 3	
Public Speaking (3 hours)		
COMM 1315	Public Speaking Credit Hours: 3	
Component Area Options (3 hours)		
Two 1- hour Life and PhysicalScience Labs - required co-requisites for the chosen science courses.		
PSYC 1100	Learning Frameworks Credit Hours: 1	

College Core Requirements (54 hours)

54 hours of upper-level credit must be a "C" or better.

Core Requirement	
Grade must be a "C" or better. Choose ONE of the following courses.	
WRIT 3306	Writing for the Social Sciences Credit Hours: 3
WRIT 3307	Advanced Writing Credit Hours: 3

Major Requirements (60 hours)

S	Sociology Course (Program Prerequisite)
G	Grade must be "C" or better.

SOCI 1301	Introduction to Sociology Credit Hours: 3
Interdisciplinary Requirements	
Choose TWO of the following courses. Students pursuing a Women's and Gender Studies Certificate should complete WGST 1302.In addition students must complete one SWRK elective or course designated by Major (3300/4300 level).	
ANTH 4342	Human Rights and Social Justice Credit Hours: 3
HUMN 3374	Critical Inquiry Credit Hours: 3
HUMN 3375	Ideas in Transition Credit Hours: 3
PHIL 3331	Ethics Credit Hours: 3
PHIL 4314	The Great Philosophers I Credit Hours: 3
PHIL 4315	The Great Philosophers II Credit Hours: 3
SOCI 4328	Social Conflict and Mediation Credit Hours: 3
WGST 1302	Perspectives in Women's and Gender Studies Credit Hours: 3
WGST 4372	Seminar in Women's and Gender Studies Credit Hours: 3

Overview Requirement

Students must complete 2 courses from 2 of the following 3 HSH disciplines: Psychology, Sociology, or Anthropology.

Grades must be "C" or better.

Psychology Overview Option	
Students pursing a Women's Studies Certificate should take PSYC 4334; other students may choose from the list below.	
PSYC 3321	Learning Credit Hours: 3
PSYC 3331	Theories of Personality Credit Hours: 3
PSYC 4311	Social Psychology Credit Hours: 3

PSYC 4334	Psychology of Women
	Credit Hours: 3
PSYC 4351	Abnormal Psychology
	Credit Hours: 3
PSYC 4382	Cognitive Psychology
	Credit Hours: 3
Sociology Overview Option	
SOCI 4312	Social Structure: Class, Power, and
	Status
	Credit Hours: 3

Anthropology Overview Option

Program Prerequisites (6 hours)

All students must take ANTH 3311 if they choose to do an Anthropology Overview.Students interested in completing a Women's Studies Certificate in addition to the BSW should choose either ANTH 4301 or ANTH 4341. These course may be taken only if they are cross-listed with WGST.

ANTH 3311	Contemporary Cultural Anthropology Credit Hours: 3
ANTH 4301	Studies in Cultural Diversity Credit Hours: 3
ANTH 4341	Gender and Sexuality in Global Perspectives Credit Hours: 3

Grade must be "C" or better.	
SWRK 3301	Introduction to Social Work Credit Hours: 3
SWRK 3304	Issues and Ethics in Social Work Credit Hours: 3
Program Courses (39 hou	rs)
Grade must be "C" or better.	
SWRK 3314	Diversity and Human Behavior in the Social Environment Credit Hours: 3
SWRK 3317	Social Welfare Policy and Services Credit Hours: 3
SWRK 3324	Oppression, Diversity, and Social Justice Credit Hours: 3
SWRK 4318	Social Work Practice I Credit Hours: 3
SWRK 4319	Social Welfare Policy Analysis

SWRK 4328	Social Work Practice II Credit Hours: 3
SWRK 4338	Social Work Practice III Credit Hours: 3
SWRK 4363	Experimental Methods and Statistics Credit Hours: 3
SWRK 4370	Nonexperimental Methods and Statistics Credit Hours: 3
SWRK 4619	Social Work Internship I Credit Hours: 6
SWRK 4629	Social Work Internship II Credit Hours: 6

Additional Information

- SWRK 4318
- · SWRK 4319
- SWRK 4328
- SWRK 4338
- SWRK 4619
- · SWRK 4629

Electives (15 hours)

Can be any courses at UHCL (1300/2300/3300/4300 level)Economics and Spanish courses are highly recommended. Other SWRK courses, if available, are also recommended.

Social Work B.S.W. and Women's and Gender Studies Certificate

Students pursuing a B.S.W. degree who would like to receive an undergraduate certificate in Women's and Gender Studies should visit with Social Work faculty regarding completion of the requirements below.

Certificate Requirements

Interdisciplinary Overview

Note: As one of the two required Interdisciplinary Overview Courses, students should take one course from the following list:

WGST 1302	Perspectives in Women's and Gender Studies Credit Hours: 3	
WGST 4372	Seminar in Women's and Gender Studies Credit Hours: 3	
Psychology Overview		
Note: As their Psychology Overview, students should take:		
PSYC 4334	Psychology of Women Credit Hours: 3	
Anthropology Overview		
Note: As their Anthropology Overview, students should take one course from the following list:		
ANTH 4301	Studies in Cultural Diversity Credit Hours: 3	
ANTH 4341	Gender and Sexuality in Global Perspectives Credit Hours: 3	
WGST 4314	Latina Social Movements in the Americas Credit Hours: 3	

Students will need to complete the
"Undergraduate Certification Form" found
online on the UHCL Women's and Gender
Studies website or should contact the HSH
Advising Office. Interested students should
meet with Social Work faculty to make plans for
completing the Women's and Gender Studies
Certificate as soon as possible.

Sociology B.S.

Are you curious about social problems? Do you have ideas about how to improve society? Are you interested in social policies and their effects? If so, Sociology may be for you. A Sociology degree prepares you for a wide range of careers in the following areas: business and industry, government, community and social services, the legal system, education, and research.

Our majors work in nonprofit organizations, government, marketing, urban planning, and human resources. They also work with atrisk youth, senior citizens, and people struggling with substance abuse. Our faculty have areas of specialization in family sociology, medical sociology, immigration, religion, race and ethnic relations, social inequality, complex organizations, nonprofit organizations, and conflict resolution.

University Core Requirements (42 Hours)

Communication (6 hours)		
WRIT 1301	Composition I Credit Hours: 3	
WRIT 1302	Composition II Credit Hours: 3	
Mathematics (3 hours)		
Choose ONE of the following courses.		
MATH 1314	College Algebra Credit Hours: 3	
MATH 1332	Contemporary Mathematics Credit Hours: 3	
Life and Physical Sciences (6 hours)		
Choose TWO of the following courses.		
ASTR 1303	Stars and Galaxies Credit Hours: 3	
ASTR 1304	Solar System Credit Hours: 3	
BIOL 1306	Biology for Science Majors I Credit Hours: 3	
BIOL 1307	Biology for Science Majors II Credit Hours: 3	
BIOL 1308	Biology for Non-Science Majors I	
BIOL 1309	Biology for Non-Science Majors II Credit Hours: 3	
BIOL 2301	Anatomy & Physiology I Credit Hours: 3	
BIOL 2302	Anatomy & Physiology II Credit Hours: 3	

CHEM 1305	Introductory Chemistry I Credit Hours: 3
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II Credit Hours: 3
ENSC 1301	Environmental Science I Credit Hours: 3
ENSC 1302	Environmental Science II Credit Hours: 3
GEOL 1303	Physical Geology Credit Hours: 3
GEOL 1304	Historical Geology Credit Hours: 3
PHYS 1301	College Physics I Credit Hours: 3
PHYS 1302	College Physics II Credit Hours: 3
PHYS 2325	University Physics I Credit Hours: 3
PHYS 2326	University Physics II Credit Hours: 3
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Language, Philosophy and Cultu	_
Language, Philosophy and Cultu	_
	_
Choose ONE of the following courses.	re (3 hours) Humanities
Choose ONE of the following courses. HUMN 1301	Humanities Credit Hours: 3 Literature and Experience
Choose ONE of the following courses. HUMN 1301 LITR 2341	Humanities Credit Hours: 3 Literature and Experience Credit Hours: 3 Introduction to Philosophy
Choose ONE of the following courses. HUMN 1301 LITR 2341 PHIL 1301	Humanities Credit Hours: 3 Literature and Experience Credit Hours: 3 Introduction to Philosophy Credit Hours: 3 Gender Matters: Introduction to Women's and Gender Studies
Choose ONE of the following courses. HUMN 1301 LITR 2341 PHIL 1301 WGST 1301	Humanities Credit Hours: 3 Literature and Experience Credit Hours: 3 Introduction to Philosophy Credit Hours: 3 Gender Matters: Introduction to Women's and Gender Studies
Choose ONE of the following courses. HUMN 1301 LITR 2341 PHIL 1301 WGST 1301 Creative Arts (3 Hours)	Humanities Credit Hours: 3 Literature and Experience Credit Hours: 3 Introduction to Philosophy Credit Hours: 3 Gender Matters: Introduction to Women's and Gender Studies
Choose ONE of the following courses. HUMN 1301 LITR 2341 PHIL 1301 WGST 1301 Creative Arts (3 Hours) Choose ONE of the following courses.	Humanities Credit Hours: 3 Literature and Experience Credit Hours: 3 Introduction to Philosophy Credit Hours: 3 Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3
Choose ONE of the following courses. HUMN 1301 LITR 2341 PHIL 1301 WGST 1301 Creative Arts (3 Hours) Choose ONE of the following courses. ARTS 1303	Humanities Credit Hours: 3 Literature and Experience Credit Hours: 3 Introduction to Philosophy Credit Hours: 3 Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3 World Art Survey I Credit Hours: 3 World Art Survey II

HIST 1301	United States History I Credit Hours: 3	
HIST 1302	United States History II Credit Hours: 3	
Government/ Political Science (6 hours)		
POLS 2305	Federal Government Credit Hours: 3	
POLS 2306	Texas Government Credit Hours: 3	
Social Behavioral Sciences (3 hours)		
Choose ONE of the following courses.		
ANTH 2346	General Anthropology Credit Hours: 3	
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3	
ECON 2301	Principles of Macroeconomics Credit Hours: 3	
ECON 2302	Principles of Microeconomics Credit Hours: 3	
GEOG 1303	World Regional Geography Credit Hours: 3	
PSYC 2301	Introduction to Psychology Credit Hours: 3	
SOCI 1301	Introduction to Sociology Credit Hours: 3	
Public Speaking (3 hours)		
COMM 1315	Public Speaking Credit Hours: 3	
Component Area Options (3 hours)		
Two 1-hour Life and Physical Science Labs - required co-requisites for the chosen science courses.		
PSYC 1100	Learning Frameworks Credit Hours: 1	

College Core Requirements (3 hours)

48 hours of upper-level credit must be "C" or better.

Core l	Requirement (3 hours)
Choos	e ONE of the following courses.

WRIT 3306	Writing for the Social Sciences Credit Hours: 3
WRIT 3307	Advanced Writing Credit Hours: 3

Major Requirements (54 hours)

Choose ONE of the follo	owing courses.
HUMN 3374	Critical Inquiry Credit Hours: 3
HUMN 3375	Ideas in Transition Credit Hours: 3
PHIL 3331	Ethics Credit Hours: 3
PHIL 4314	The Great Philosophers I Credit Hours: 3
PHIL 4315	The Great Philosophers II Credit Hours: 3
Diversity Requirement	
	g courses. For ANTH 4341, the following may be GST 4341For PSYC 4356, the following may be
ANTH 3355	Topics in Asian Studies Credit Hours: 3
ANTH 3357	Topics in African Studies Credit Hours: 3
ANTH 3358	Topics in Middle Eastern Societies Credit Hours: 3
ANTH 4301	Studies in Cultural Diversity Credit Hours: 3
ANTH 4333	Peoples of Mexico and Central America Credit Hours: 3
ANTH 4341	Gender and Sexuality in Global Perspectives Credit Hours: 3
PSYC 4308	Perspectives in Women's and Gender Studies Credit Hours: 3
PSYC 4334	Psychology of Women Credit Hours: 3
PSYC 4356	The Aging Experience Credit Hours: 3

Urban Sociology

Credit Hours: 3

SOCI 3352

SOCI 4316	Women and the Law Credit Hours: 3		
SOCI 4317	Race and the Law Credit Hours: 3		
SOCI 4355	Minorities in America Credit Hours: 3		
SWRK 3324	Oppression, Diversity, and Social Justice Credit Hours: 3		
Choose ONE of the following cour	ses.		
ANTH 3311	Contemporary Cultural Anthropology Credit Hours: 3		
ANTH 3361	Anthropology of Food Credit Hours: 3		
ANTH 3362	Medicine, Bodies, and Culture Credit Hours: 3		
Choose ONE of the following cour	ses.		
PSYC 3311	Careers and Writing in Psychology Credit Hours: 3		
PSYC 4311	Social Psychology Credit Hours: 3		
PSYC 4351	Abnormal Psychology Credit Hours: 3		
Choose ONE of the following courses.			
SOCI 1301	Introduction to Sociology Credit Hours: 3		
SOCI 1306	Social Problems Credit Hours: 3		
Required Overview courses			
SOCI 4312	Social Structure: Class, Power, and Status Credit Hours: 3		
SOCI 4322	Theories of Society Credit Hours: 3		
Required Methodology courses			
SOCI 4384	Statistics Credit Hours: 3		
SOCI 4385	Research Methods Credit Hours: 3		
Additional Information			

Both courses should be completed for credit before the end of a student's

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junior year.

Core Courses	
Choose EIGHT of the following courses.	
SOCI 3312	Criminology Credit Hours: 3
SOCI 3313	Urban and Rural Health Credit Hours: 3
SOCI 3317	Religion and Immigration Studies in Houston Credit Hours: 3
SOCI 3335	Deviance Credit Hours: 3
SOCI 3351	Political Sociology Credit Hours: 3
SOCI 3352	Urban Sociology Credit Hours: 3
SOCI 4323	Religion in Society Credit Hours: 3
SOCI 4324	Organizations in Society Credit Hours: 3
SOCI 4328	Social Conflict and Mediation Credit Hours: 3
SOCI 4335	Social Change and Social Movements Credit Hours: 3
SOCI 4341	Women in Society Credit Hours: 3
SOCI 4355	Minorities in America Credit Hours: 3
SOCI 4357	Sociology of Family, Work, and Gender Credit Hours: 3
SOCI 4358	Family and Society Credit Hours: 3
SOCI 4359	Family Policy Credit Hours: 3
SOCI 4363	American Immigration and the Immigrant Experience Credit Hours: 3
SOCI 4364	Medical Sociology Credit Hours: 3
SOCI 4365	Sociology of Mental Health and Illness Credit Hours: 3
SOCI 4367	Women's Health and Sexuality Credit Hours: 3

Elective Requirements (21 hours)

Up to 15 hours could be any level electives (any 1300/2300/3300/4300 level courses)6 hours must be upper-level (any 3300/4300 level courses.)

Sociology Concentration Areas

Sociology students are encouraged to structure their plans of study to reflect concentrations within the discipline. The concentrations below have been developed by the Sociology faculty to help students design degree plans that reflect their career and/or graduate education goals.

Criminology Concentration		
Must complete THREE of the following courses with grades of "C" or higher:		
SOCI 3312	Criminology Credit Hours: 3	
SOCI 3335	Deviance Credit Hours: 3	
SOCI 3351	Political Sociology Credit Hours: 3	
SOCI 4332	Sociology of Law Credit Hours: 3	
SOCI 4335	Social Change and Social Movements Credit Hours: 3	
Diversity Concentration		
Must complete THREE of the fo	ollowing courses with grades of "C" or higher:	
SOCI 3317	Religion and Immigration Studies in Houston Credit Hours: 3	
SOCI 3352	Urban Sociology Credit Hours: 3	
SOCI 4355	Minorities in America Credit Hours: 3	
SOCI 4363	American Immigration and the Immigrant Experience Credit Hours: 3	
Family Sociology Concentration		
Must complete THREE of the following courses with grades of "C" or higher:		
ANTH 4351	Families, Communities, and Globalization Credit Hours: 3	

SOCI 4356	The Aging Experience Credit Hours: 3	
SOCI 4357	Sociology of Family, Work, and Gender Credit Hours: 3	
SOCI 4358	Family and Society Credit Hours: 3	
SOCI 4359	Family Policy Credit Hours: 3	
Health and Medicine Concentrat	ion	
Must complete THREE of the following	courses with grades of "C" or higher:	
ANTH 3362	Medicine, Bodies, and Culture Credit Hours: 3	
SOCI 3313	Urban and Rural Health Credit Hours: 3	
SOCI 4364	Medical Sociology Credit Hours: 3	
SOCI 4365	Sociology of Mental Health and Illness Credit Hours: 3	
SOCI 4367	Women's Health and Sexuality Credit Hours: 3	
Legal Studies Concentration		
Must complete THREE of the following	courses with grades of "C" or higher:	
SOCI 4316	Women and the Law Credit Hours: 3	
SOCI 4317	Race and the Law Credit Hours: 3	
SOCI 4328	Social Conflict and Mediation Credit Hours: 3	
SOCI 4332	Sociology of Law Credit Hours: 3	
SOCI 4335	Social Change and Social Movements Credit Hours: 3	
Urban Studies Concentration		
Must complete THREE of the following	courses with grades of "C" or higher:	
SOCI 3313	Urban and Rural Health Credit Hours: 3	
SOCI 3351	Political Sociology Credit Hours: 3	
SOCI 3352	Urban Sociology Credit Hours: 3	

SOCI 4335	Social Change and Social Movements Credit Hours: 3
SOCI 4355	Minorities in America Credit Hours: 3
SOCI 4363	American Immigration and the Immigrant Experience Credit Hours: 3
Women's Studies Concentration	1
Must complete THREE of the following courses with grades of "C" or higher:	
SOCI 4308	Perspectives in Women's and Gender Studies Credit Hours: 3
SOCI 4341	Women in Society Credit Hours: 3
SOCI 4367	Women's Health and Sexuality Credit Hours: 3
WGST 4312	Women of Color Credit Hours: 3
WGST 4337	Violence Against Women Credit Hours: 3
Work and Occupations Concentr	ation
Must complete THREE of the following courses with grades of "C" or higher:	
SOCI 4311	Social Psychology Credit Hours: 3
SOCI 4324	Organizations in Society Credit Hours: 3
SOCI 4328	Social Conflict and Mediation Credit Hours: 3
SOCI 4357	Sociology of Family, Work, and Gender Credit Hours: 3

Certificate

Applied Behavior Analysis certificate

The undergraduate certificate in Behavior Analysis is designed to meet the coursework requirements for the Behavior Analyst Certification Board (BACB). This certificate is appropriate for UHCL undergraduate psychology majors, as well as students who have already completed a bachelors degree, who wish to eventually sit for the Board Certified Assistant Behavior Analyst (BCaBA) examination. Additional detail regarding this certification can be found on the BACB's website: www.bacb.com.

Certificate Requirements

The coursework required to satisfy this certificate includes the following:

Coursework	
Students must earn at least a "B-" in each class to earn the undergraduate certificate.	
PSYC 3321	Learning Credit Hours: 3
PSYC 4321	Applied Behavior Analysis I Credit Hours: 3
PSYC 4322	Applied Behavior Analysis II Credit Hours: 3
PSYC 4323	Research and Practice in Behavior Analysis Credit Hours: 3

The certificate coordinator is Dr. Jennifer Fritz, BCBA-D. Dr. Fritz can be reached at fritzj@uhcl.edu.

Biotechnology Certificate

A student may work toward a certificate in Biotechnology, which requires the completion of at least seven biology laboratory courses at UHCL. Training in these laboratories will prepare students for careers in academic, industrial, biomedical, clinical, state/federal or environmental areas.

The certificate option targets students who are working toward or have already completed a B.S. degree and wish to add course work that will be focused on the Biotechnology field. Current UHCL students (degree-seeking B.S. or M.S. students or post-baccalaureate nondegree seeking students majoring in Biology, Environmental Science or Chemistry) who wish to participate in the certificate option must be in good academic standing, maintain a minimum 2.500 GPA in the laboratory courses and be advised by a faculty member in the Biology program. Students must have completed introductory biology (six hours), general chemistry (eight hours), organic chemistry (eight hours) and calculus as general prerequisites. In addition, students must have completed or be currently enrolled in the following courses: Biochemistry, Cell Biology or Cell Physiology, Genetics, Animal/Human/Plant Physiology and Microbiology.

Certificate Requirements

A minimum of seven laboratory courses must be completed for the certificate in Biotechnology.

Required Courses
Complete the 3 courses listed.

BIOL 4252	Molecular Biology Laboratory Credit Hours: 2
BIOL 4253	Laboratory for Biotechnology Credit Hours: 2
BIOL 4254	Laboratory for Eukaryotic Gene Expression Credit Hours: 2
Additional Courses	
Select at least 4 of the courses listed. Up to 6 hours total may be taken in Independent Study.	
BIOL 4189	Independent Study in Biology Credit Hours: 1
BIOL 4289	Independent Study in Biology Credit Hours: 2
BIOL 4291	Laboratory Topics in Biology Credit Hours: 2
BIOL 4355	Tissue Culture Credit Hours: 3
BIOL 4389	Independent Study in Biology Credit Hours: 3
BIOL 4391	Selected Topics in the Biological Sciences Credit Hours: 3

Graphic Design Certificate

Undergraduate students concentrating in computer-based Graphic Design are eligible to receive a certificate in Graphic Design. The Graphic Design certificate is designed for motivated individuals concentrating in the competitive field of design.

Certificate Requirements

Fifteen hours specializing in computer-based Graphic Design.

Required Courses	
ARTS 3360	Graphic Design Credit Hours: 3

ARTS 4363	Advertising Design Credit Hours: 3	
Courses		
Choose three of the following courses.		
ARTS 2371	Digital Photography Credit Hours: 3	
ARTS 4352	Video Arts Credit Hours: 3	
ARTS 4369	Digital Illustration Credit Hours: 3	
ARTS 4392	Arts Internship Credit Hours: 3	
COMM 3360	Web Design Credit Hours: 3	
COMM 4350	3D Computer Modeling Credit Hours: 3	

Public Service Leadership Certificate

A certificate in Public Service Leadership is awarded to students who complete the following courses and who apply for certificate recognition to the director of the Public Service Leadership program.

Certificate Requirements

Courses	
In addition to PSLD 4343, select 3 of the remaining courses listed.	
PSLD 4343	Public Service Management Credit Hours: 3
PSLD 4344	Public Service Leadership Credit Hours: 3
PSLD 4345	Strategic Planning Credit Hours: 3
PSLD 4347	Managerial Issues in Diversity Credit Hours: 3
PSLD 4348	Crisis and Emergency Management Credit Hours: 3

Women's and Gender Studies Certificate

Women's and Gender Studies is an interdisciplinary curriculum administered by the College of Human Sciences and Humanities. Women's and Gender Studies courses offer challenging new perspectives by exploring the special contributions of women and the impact of gender in a variety of academic disciplines. Women's and Gender Studies supports many majors, including those in anthropology, history, humanities, literature, psychology and sociology. Women's and Gender Studies courses fulfill major requirements in several of these areas.

To complete a certificate in Women's and Gender Studies, students should visit with the Women's and Gender Studies website to register.

Certificate Requirements

Undergraduate: Nine hours of Women's and Gender Studies courses in any combinations.

Courses	
One of the following is highly recommended.	
WGST 1301	Gender Matters: Introduction to Women's and Gender Studies Credit Hours: 3
WGST 1302	Perspectives in Women's and Gender Studies Credit Hours: 3
WGST 4372	Seminar in Women's and Gender Studies Credit Hours: 3

Minors

Minor in Actuarial Science

This minor is designed to prepare students for careers as actuaries.

Required courses in the minor (15 hours)	
ACCT 2301	Principles of Accounting I - Financial Credit Hours: 3
ECON 2301	Principles of Macroeconomics Credit Hours: 3
STAT 4345	Introduction to Statistics Credit Hours: 3
STAT 4346	Probability for Actuarial Exam P1 Credit Hours: 3
STAT 4348	Introduction to Financial Math for Exam FM Credit Hours: 3

Minor in Africana Studies

The minor in Africana studies includes courses that explore the experience of peoples of African descent in both Africa and the diaspora. The minor will expose students to scholarship from historical, cross-cultural, and interdisciplinary perspectives on race, racism, colonialism, and contemporary issues relevant to African and African diasporic populations. The courses also explore the diverse cultural and social practices that form the unique identities among the different African and African diasporic populations in the Americas and around the globe. The courses included in

this minor come from different programs and departments within HSH.

Students are required to take 15 hours to complete the Africana studies minor as indicated below. Students for this minor must at least earn "C" or better for all minor courses. Students must take coursework in at least two different disciplines (indicated by four-letter rubrics) from among the HSH offerings below.

Required courses in the minor (15 hours)	
Please see additional notes regarding required course topics.	
ANTH 3357	Topics in African Studies Credit Hours: 3
ANTH 3358	Topics in Middle Eastern Societies Credit Hours: 3
ANTH 4301	Studies in Cultural Diversity Credit Hours: 3
CRIM 4335	Race and Justice Credit Hours: 3
CRIM 4391	Selected Topics in Criminology Credit Hours: 3
HIST 4315	Studies in African American History Credit Hours: 3
HIST 4325	Studies in Middle Eastern History Credit Hours: 3
HUMN 3375	Ideas in Transition Credit Hours: 3
LITR 4338	American Minority Literature Credit Hours: 3
POLS 4312	Race and Ethnic Politics Credit Hours: 3
SOCI 4329	Egypt in Transition Credit Hours: 3
SOCI 4355	Minorities in America Credit Hours: 3
WGST 4312	Women of Color Credit Hours: 3
Additional Information	

Additional Information

- · ANTH 3358, when the topic is Islam in Africa
- ANTH 4301, when the topic is African Diaspora in the Caribbean, Latin America, or Public Culture
- · CRIM 4391, when the topic is The Black Male

- · HIST 4315, when the topic is Civil Rights Movement
- HIST 4325, when the topic is The Middle East: From Colonial to Postcolonial Times
- · HUMN 3375. when the topic is Freedom
- · LITR 4338, when the topic is African American women writers

Minor in Anthropology

Students may minor in Anthropology in order to gain an overview of the discipline and to develop skills for working in diverse communities in the United States and globally.

Required courses in minor (15 hours)

12 hours of Anthropology courses (with at least 9 hours at the 3300 or 4300 level) selected inconsultation with the Anthropology minor adviser to address student interests and career plans.

ANTH 3311 Contemporary Cultural Anthropology Credit Hours: 3

Minor in Art History

Students minoring in Art History develop skills in visual literacy and analysis. Courses at the 3300 and 4300 levels should be selected in consultation with the minor adviser.

Required courses in minor (6 hours)

Students are encouraged to complete these requirements during the first 6 hours of work toward the minor. These foundational courses may be taken concurrently with electives.

ARTS 1303	World Art Survey I Credit Hours: 3
ARTS 1304	World Art Survey II Credit Hours: 3

Elective courses (9 hours)

Any Art History course at the 3300 and/or 4300 level selected with consultation with the minor adviser.

Minor in Art and Design

Students must complete five courses in studio art with a "C- "or better for a minimum of 15 credit hours.

Required course in minor (3 hours) ARTS 1316 Drawing Foundations Credit Hours: 3

Choose one of the three options below.

2-Dimensional Option	
Choose four additional ARTS courses from the following list. Note: 9 hours must be at 3300/4300level.	
ARTS 2316	Painting Credit Hours: 3
ARTS 3331	Intermediate Drawing Credit Hours: 3
ARTS 3335	Intermediate Painting Credit Hours: 3
ARTS 3340	Printmaking Credit Hours: 3
ARTS 3352	Traditional Photography Credit Hours: 3
ARTS 4350	Advanced Photography Credit Hours: 3

3-Dimensional Option	
Choose four additional ARTS courses from the following list. Note: 9 hours must be at 3300/4300level.	
ARTS 3310	Sculpture Credit Hours: 3
ARTS 3320	Ceramics Credit Hours: 3
ARTS 3341	Fibers Credit Hours: 3
ARTS 4302	Crafts Design Credit Hours: 3
ARTS 4311	Process Sculpture Credit Hours: 3

ARTS 4320	Advanced Ceramics
	Credit Hours: 3

Graphic Option	
Choose four additional ARTS courses from the following list. Note: 9 hours must be at 3300/4300level.	
ARTS 2371	Digital Photography Credit Hours: 3
ARTS 3360	Graphic Design Credit Hours: 3
ARTS 4351	Advanced Digital Photography Credit Hours: 3
ARTS 4369	Digital Illustration Credit Hours: 3
COMM 3360	Web Design Credit Hours: 3

Minor in Astronomy

This minor is designed to provide students with a background in astronomy that focuses on answering the fundamental question about our origins that humans have pondered over the ages. Building on an introductory survey of astronomy, students will explore topics in planetary science such as asteroid collisions with the Earth or the science of extrasolar planets. The upper level requirements will offer students the choice of focusing on the origin and evolution of stars, our Solar System, our universe and life elsewhere in the universe.

Required courses in minor (8 hours)	
ASTR 1103	Laboratory for Stars and Galaxies
ASTR 1303	Stars and Galaxies Credit Hours: 3
ASTR 1104	Laboratory for Solar System Credit Hours: 1
ASTR 1304	Solar System Credit Hours: 3

Elective courses in the minor (9 hours)	
ASTR 3311	Modern Astronomy Credit Hours: 3
ASTR 4311	Universal Origins
ASTR 4312	Principles of Astrobiophysics Credit Hours: 3
ASTR 4391	Selected Topics in Space Science Credit Hours: 3
PHYS 4362	Fundamentals of Astroparticle Physics Credit Hours: 3

Minor in Behavior Analysis

The minor in Behavior Analysis is designed for students who wish to better understand the principles and processes underlying the behavior of humans and non-humans as well as for students who would like to complete the coursework required to sit for the Board Certified Assistant Behavior Analyst (BCaBA) examination. To qualify to sit for the BCaBA examination, students also must fulfill a supervised experience requirement. More information can be found at www.bacb.com.

A minor in Behavior Analysis will require a student to take 15 hours from the Psychology program. The specific courses for the Behavior Analysis Minor are listed below. Courses that satisfy the coursework requirements for the BCaBA exam include PSYC 3321, PSYC 4321, PSYC 4322, and PSYC 4323. Students must earn a grade of "B-" or better in the following courses to be eligible to receive the minor.

Required courses in the minor (15 hours)

In place of PSYC 4316 students may complete PSYC 4327.

PSYC 3321	Learning Credit Hours: 3
PSYC 4321	Applied Behavior Analysis I Credit Hours: 3
PSYC 4322	Applied Behavior Analysis II Credit Hours: 3
PSYC 4323	Research and Practice in Behavior Analysis Credit Hours: 3
PSYC 4316	Brain and Behavior Credit Hours: 3

Minor in Biology

This minor is designed to provide a solid background in biological science for students majoring in other disciplines.

Required Courses

Required courses in the minor (8 hours)	
BIOL 1106	Laboratory for Biology for Science Majors I Credit Hours: 1
BIOL 1107	Laboratory for Biology for Science Majors II Credit Hours: 1
BIOL 1306	Biology for Science Majors I Credit Hours: 3
BIOL 1307	Biology for Science Majors II Credit Hours: 3

Elective Courses

Choose courses in only one focus area.

Human Biology (9 hours)	
BIOL 3173	Laboratory for Human Anatomy Credit Hours: 1
BIOL 3373	Human Anatomy Credit Hours: 3
BIOL 4241	Laboratory for Physiology Credit Hours: 2

BIOL 4345	Human Physiology
	Credit Hours: 3

Cellular Biology (10 hours)	
BIOL 3307	Cell Biology Credit Hours: 3
BIOL 3141	Laboratory for Molecular Genetics Credit Hours: 1
BIOL 3341	Molecular Genetics Credit Hours: 3
BIOL 4351	Molecular Biology Credit Hours: 3

Environment Biology (9 hours)	
BIOL 3311	Marine Biology Credit Hours: 3
BIOL 3333	Environmental Biology Credit Hours: 3
BIOL 4311	Ecology Credit Hours: 3

Plant Biology (9 hours)	
BIOL 3313	Plant Anatomy Credit Hours: 3
BIOL 4327	Plant Identification Credit Hours: 3
BIOL 4343	Plant Physiology Credit Hours: 3

Minor in Chemistry

A minor in chemistry will serve students who wish to expand their knowledge in chemistry. These skills can be used in a variety of careers from science to business or law.

Required courses in the minor (8 hours)	
CHEM 2123	Laboratory for Organic Chemistry I

CHEM 2125	Laboratory for Organic Chemistry II Credit Hours: 1
CHEM 2323	Organic Chemistry I Credit Hours: 3
CHEM 2325	Organic Chemistry II Credit Hours: 3

Elective courses in the minor (9 hours)	
Choose three of the listed courses.	
CHEM 3320	Survey of Physical Chemistry Credit Hours: 3
CHEM 4321	Physical Chemistry I Credit Hours: 3
CHEM 4341	Biochemistry I Credit Hours: 3
CHEM 4367	Instrumental Analysis Credit Hours: 3
CHEM 4368	Advanced Organic Chemistry Credit Hours: 3
CHEM 4373	Quantitative Chemical Analysis Credit Hours: 3

Additional Information

Students must complete 17 hours as indicated with at least 9 of those hours drawn from 3000 and 4000 level course offerings. All courses completed for minor credit must receive a grade of "C" or better.

Minor in Cybersecurity

Minor in Cybersecurity Addendum

An interdisciplinary minor in Cyber Security will cover all the critical topics in current security domain, including but not limited to: risk management, cloud computing, mobile security, application development security. This interdisciplinary minor will not only serve students who are interested in a career in information security field but also will be beneficial for students who are interested in pursuing careers in system administration, management information

systems, network administration, forensics, database development, or software development.

Required courses in the minor (15-17 hours)	
Select one of either CSCI 1470 or CSCI 3303; one of CSCI 1370 or CSCI 1471; and one of CSCI 4323 or CINF 4323.	
ITEC 3388	Cyber Security I Credit Hours: 3
ITEC 4383	Cyber Security II Credit Hours: 3
Additional Information	

Additional Information

All courses for minor credit must be completed with a grade of "C" or above.

Minor in Cybersecurity Addendum

An interdisciplinary minor in Cyber Security will cover all the critical topics in current security domain, including but not limited to: risk management, cloud computing, mobile security, application development security. This interdisciplinary minor will not only serve students who are interested in a career in information security field but also will be beneficial for students who are interested in pursuing careers in system administration, management information systems, network administration, forensics, database development, or software development.

Required courses in the minor (15-17 hours)	
Select one of either CSCI 1470 or CSCI 3303; one of CSCI 1370 or CSCI 1471; and one of CSCI 4323/CINF 4323 or ITEC 4366.	
ITEC 3388	Cyber Security I Credit Hours: 3
ITEC 4383	Cyber Security II Credit Hours: 3

Additional Information

All courses for minor credit must be completed with a grade of "C" or above.

Minor in Early Childhood Education

The 15-hour Minor in Early Childhood Education (ECE) in the School of Education will provide students the fundamental theories, concepts, and practices in working with young children. This minor will provide students a rich learning experience regarding early childhood issues including literacy development, parent engagement, and curriculum. Courses may be especially attractive to majors in psychology and sociology who may want to work with CPS, Child Care Licensing or other agencies related to children and families. Choose from any of the following courses for completing the minor. There are no prerequisites in enrolling in any of the following courses.

Required courses in minor (15 hours)	
ECED 4303	Child Guidance and Classroom Management for Young Children Credit Hours: 3
ECED 4305	Literacy Development Birth-Age 5 Credit Hours: 3
ECED 4307	Mathematics and Science in Early Childhood Education Credit Hours: 3
ECED 4308	Creativity in Early Childhood Credit Hours: 3
ECED 4309	Advocacy and Parent Engagement Credit Hours: 3
ECED 4320	Play Credit Hours: 3
ECED 4321	Infants and Toddlers Credit Hours: 3

ECED 4322	Cultural Awareness for Young Children Credit Hours: 3
ECED 4323	Preschool Curriculum Credit Hours: 3
ECED 4324	Early Childhood Leadership and Program Quality Credit Hours: 3
ECED 4325	Early Childhood Program Development Credit Hours: 3

Minor in Economics

This minor is designed to provide students with the tools to engage in the "economic way of thinking". Students will explore the collection and use of economic data, the design of economic policy and institutions, and in general, optimal decision–making with scarce resources. Students will be required to complete ECON2301 & ECON2302 plus 9 hours of electives. Of the 9 hours, a minimum of 3 must be macroeconomic based and 3 must be microeconomic based.

Required courses in Minor (6 hours)		
ECON 2301	Principles of Macroeconomics Credit Hours: 3	
ECON 2302	Principles of Microeconomics Credit Hours: 3	
Macroeconomics-based Electives (ECON2301 required –must take at least one course)		
ECON 3311	Money and Banking Credit Hours: 3	
ECON 3321	Development Economics Credit Hours: 3	
Microeconomics- based Electives (ECON2302 required –must take at least one course)		
HADM 3333	Healthcare Economics Credit Hours: 3	

ECON 3361	Industrial Organization Credit Hours: 3
ECON 3381	Energy and Environmental Economics
ECON 3391	Sports Economics Credit Hours: 3
ECON 3371	Public Finance Credit Hours: 3

Students must include the minor in the degree plan no later than the achievement of senior status. Minors must be completed as part of a planned degree program prior to graduation. Substitutions in a minor can be initiated by either the major- or minor-granting department, but must be approved by both departments. A minor is displayed on the transcript after graduation, but is not displayed on the diploma.

Minors are not required of any student and must not extend beyond the total number of hours for program completion (120 hours). For each minor, students must complete at least 15 hours with at least nine of these hours drawn from Upper–Level (33XX and/or 43XX) course offerings. All courses for minor credit must be completed with a grade of "C" or above.

Minor in Environmental Science

The Environmental Science minor is designed to provide a solid background in environmental science for students majoring in other disciplines.

Required courses in the minor (12 hours)	
BIOL 3333	Environmental Biology Credit Hours: 3

CHEM 3333	Environmental Chemistry Credit Hours: 3
GEOL 3333	Environmental Geology Credit Hours: 3
INDH 3333	Environmental Safety and Health Credit Hours: 3

Elective courses in the minor (6 hours)	
BIOL 4325	Environmental Toxicology Credit Hours: 3
BIOL 4334	Environmental Microbiology Credit Hours: 3
CHEM 4352	Water Chemistry and Water Pollution Credit Hours: 3
CHEM 4355	Environmental Sampling and Monitoring Credit Hours: 3
GEOL 4351	Hydrogeology Credit Hours: 3
GEOL 4356	Soil and Groundwater Remediation Credit Hours: 3
INDH 4322	Industrial Hygiene Sampling and Analysis Credit Hours: 3
INDH 4323	Hazardous Materials and Emergency Management Credit Hours: 3

Minor in Exercise Science

A minor in Exercise Science will require a student to take 15 hours from the Fitness and Human Performance program as indicated below.

Required courses in minor (15 hours)	
Students will choose between:HLTH 4307 or HLTH 4308 HLTH 4302 or HLTH 4305	
HLTH 3303	Nutrition and Weight Management Credit Hours: 3
HLTH 3304	Principles of Physical Fitness Credit Hours: 3

HLTH 4301	Physiology of Exercise Credit Hours: 3
HLTH 4302	Biomechanics Credit Hours: 3
HLTH 4305	Seminar in Sports Medicine Credit Hours: 3
HLTH 4307	Peak Performance Credit Hours: 3
HLTH 4308	Resistive Exercise: Theory and Practice Credit Hours: 3

Minor in Geographic Information Systems

A minor in Geographic Information Systems (GIS) will serve students who wish to add interdisciplinary perspectives and skills to their plans of study. The GIS minor will produce students who are equipped to function as GIS specialists in industry, government, and academia. The minor will provide students with an interdisciplinary educational opportunity to enhance their individual disciplines through the study and application of GIS theory, methods, and technologies. It will also endow students with the geographical concepts and practical skills necessary to enter the job market as GIS specialists. Finally, the minor will develop individuals with a board grasp of GIS technology who are not only technologically competent but also solution-oriented.

Required courses in minor (15 hours)	
GEOG 4312	Human Geography Credit Hours: 3
GEOG 4321	Fundamentals of Geographic Information Systems Credit Hours: 3

GEOG 4322	Problems in Geographic Information Systems Credit Hours: 3
GEOG 4323	Advanced Geographic Information Systems Credit Hours: 3
ITEC 3335	Database Development Credit Hours: 3

Minor in Geography

A minor in Geography will serve students who wish to add an interdisciplinary perspective to their plans of study. The minor course of study enhances students' understanding of: how the processes of human and physical systems have arranged and sometimes changed the surface of the Earth; the spatial organization of society; and spatial distribution at all scales-local and worldwide-in order to understand the complex connectivity of people and places. Earning a minor in Geography also enables students to make sensible judgments about issues involving relationships between the physical environment and society. Finally, the minor in Geography is designed to foster a greater order to become a better global citizen.

Students must complete 15 hours as indicated. All courses for minor credit must be completed with a grade of "C" or better.

Required courses in minor (12 hours)	
GEOG 1301	Modern Physical Geography Credit Hours: 3
GEOG 1303	World Regional Geography Credit Hours: 3
GEOG 4312	Human Geography Credit Hours: 3
GEOG 4321	Fundamentals of Geographic Information Systems Credit Hours: 3

Elective courses (3 hours)	
GEOG 4300	Geography of the United States and Canada Credit Hours: 3
GEOG 4301	Urban Geography Credit Hours: 3
GEOG 4302	Geography of Latin America Credit Hours: 3
GEOG 4303	Geography of Texas Credit Hours: 3
GEOG 4311	Historical Geography Credit Hours: 3
GEOG 4317	Introduction to Globalization Credit Hours: 3
GEOG 4322	Problems in Geographic Information Systems Credit Hours: 3
GEOG 4323	Advanced Geographic Information Systems Credit Hours: 3

Minor in Geology

A minor in geology will serve students who wish to expand the application of their major with a geology background. These skills will complement a variety of careers, including careers in science, business, law, political science and environmental management. Building on introductory courses that include a survey of geological processes and interpretation of the earth's past, students are encouraged to choose upper-level courses that will complement their career goals. The upper level requirements will offer students the choice of focusing on topics such as structural geology, petroleum geology, geochemistry and natural disasters. All courses completed for minor credit must receive a grade of "C" or better.

Required courses in the minor (4 hours)

GEOL 1303	Physical Geology Credit Hours: 3	
GEOL 1103	Laboratory for Physical Geology Credit Hours: 1	
Choose one lower level course with lab from the following: (4 hours)		
GEOL 1304	Historical Geology Credit Hours: 3	
GEOL 1104	Laboratory for Historical Geology Credit Hours: 1	
GEOL 2107	Laboratory for Geological Field Methods Credit Hours: 1	
GEOL 2309	Mineralogy and Petrology I Credit Hours: 3	

Elective courses in the minor (9 hours)	
Choose 3 of the courses listed.Note: For GEOL 4391 Selected Topics in Structural Geology or Paleontology will apply toward minor.	
GEOL 3304	Planetary Geology Credit Hours: 3
GEOL 3307	Geographical Information Systems Credit Hours: 3
GEOL 3317	Mineralogy and Petrology Credit Hours: 3
GEOL 3333	Environmental Geology Credit Hours: 3
GEOL 4317	Advanced Mineralogy and Petrology Credit Hours: 3
GEOL 4323	Soils in the Environment Credit Hours: 3
GEOL 4324	Geomorphology Credit Hours: 3
GEOL 4325	Sedimentation and Stratigraphy Credit Hours: 3
GEOL 4326	Oceanography Credit Hours: 3
GEOL 4327	Natural Disasters Credit Hours: 3
GEOL 4335	Applied GIS Credit Hours: 3
GEOL 4351	Hydrogeology Credit Hours: 3

GEOL 4356	Soil and Groundwater Remediation Credit Hours: 3
GEOL 4375	Petroleum Geology Credit Hours: 3
GEOL 4391	Selected Topics in Geology Credit Hours: 3

Minor in Health Promotion

A minor in Health Promotion will require a student to take 15 hours from the Fitness and Human Performance program.

Required courses in minor (15 hours)	
HLTH 3303	Nutrition and Weight Management Credit Hours: 3
HLTH 3304	Principles of Physical Fitness Credit Hours: 3
HLTH 3315	Health Promotion Programs Credit Hours: 3
HLTH 3318	Introduction to Community Health Credit Hours: 3
HLTH 3320	Health Inequalities Credit Hours: 3

Minor in History

A minor in History will serve students interested in understanding the human experience in the past. Those preparing for careers in law, teaching, journalism, business, social work, or any field involving information management will find the History minor especially beneficial. In all, students must complete 15 hours in History. At least 12 hours must be drawn from 3300- and/ or 4300-level course offerings. Also, at least 12 hours must be completed in residence.

Note: HIST 1301 and HIST 1302 do not count towards the minor. All courses for minor credit must be completed with a grade of "C" or better.

Required courses in minor (15 hours)	
Select 3 hours from HIST 2321 or HIST 2322.Choose 12 hours from 3300- and/ or 4300-level course offerings.	
HIST 2321	World Civilization I Credit Hours: 3
HIST 2322	World Civilization II Credit Hours: 3

Minor in Humanities

A minor in Humanities develops students' critical thinking skills through careful analyses of works of literature, philosophy, art and film.

Required courses in minor (15 hours)	
Requirements include the courses listed below and 3 HUMN courses at the 3300 or 4300 level. Students are strongly encouraged to take HUMN 4375 as one of their elective classes.	
HUMN 1301	Humanities Credit Hours: 3
HUMN 3375	Ideas in Transition Credit Hours: 3
Additional Information HUMN 3375 is a topics class and may be repeated for credit toward the minor when the topic varies.	

Minor in Instructional Practices (15 hours)

The 15-hour minor in Instructional Practices in the College of Education will provide students foundational knowledge and skills in pedagogy and awareness of public school activities. This minor may be of interest to students who have existing strengths in content areas and want to

develop and extend their interests and potential talents in the teaching profession. A Minor in Instructional Practices can be obtained with the successful completion of five of the seven undergraduate education courses listed for this minor, totaling 15 semester credit hours; where TCED 1301 is required and the other four courses are self-selected by the students but at least three courses, that is nine semester credit hours, must be taken at 3000/4000 level. There are no prerequisites that can be chosen for courses in the minor in Instructional Practices. The following courses support an undergraduate candidate's interest in potentially pursuing a teaching career in the future. Specifically, this would align with a candidate pursuing a humanities degree with a focus on social sciences, history, or literature, as well as candidates in the sciences or mathematics fields of study. Their content area expertise makes them strong teacher candidates if they chose to pursue this career in the future.

Required courses in the minor (15 hours)	
In addition to TCED 1301, complete 4 of the remaining courses listed. At least 3 of the courses selected must be at the 3000/4000 level.	
TCED 1301	Exploring Teaching as a Profession Credit Hours: 3
TCED 1306	Relational Aspects of Learning Credit Hours: 3
TCED 2302	Questioning Strategies to Promote Learning Credit Hours: 3
TCED 3302	Instructional Practices in Education Credit Hours: 3
TCED 3304	Social Justice and Critical Issues in Education Credit Hours: 3
TCED 4302	Inquiry Processes and Problem Solving Skills in Education Credit Hours: 3

TCED 4308 Assessments and Testing in Schools
Credit Hours: 3

Minor in Instructional Technology (INST) (15 hours)

The 15-hour minor in Instructional Technology (INST) in the College of Education will prepare students to design technology-rich learning environments and become comfortable with adopting emerging technologies to facilitate learning. The application of instructional technology in business and education sectors will be examined as students gain skills in the design and development of technology-based applications. Students would find career paths in areas of support for web-based and digital learning environments as well as areas of teaching and training.

Required courses in the minor (15 hours)	
INST 3313	Survey of Instructional Technologies Credit Hours: 3
INST 4355	eLearning Credit Hours: 3
INST 4357	Multimedia for Instruction Credit Hours: 3
INST 4365	Web Development Credit Hours: 3
INST 4391	Selected Topics in Instructional Technology Credit Hours: 3

Minor in Latina/o and Latin American Studies

A minor in Latina/o and Latin American Studies provides an interdisciplinary education by offering courses in the humanities and human sciences. The objective of the minor is to promote student understanding of the Latina/o and Latin American experience. No prerequisites are required. All students pursuing the minor in Latina/o and Latin American Studies must complete 15 semester credit hours. At least 9 of the 15 hours must be at the 3300 level or above. At least 12 of the 15 hours must be taken in residence. A minimum 2.000 grade point average for all courses applied to the minor is required.

Required course in the minor (3 hours)		
Select one course from the following co	ourses.	
ANTH 4333	Peoples of Mexico and Central America Credit Hours: 3	
GEOG 4302	Geography of Latin America Credit Hours: 3	
HIST 3317	Introduction to Latin American History Credit Hours: 3	
PSYC 4349	Psychology of Latina/os in the U.S. Credit Hours: 3	
Additional Information		
A course taken to satisfy the foundational requirement cannot also count as elective credit. The foundation course may be taken concurrently with electives.		
Elective courses (12 hours)		
Select four courses from the list.		
ANTH 4333	Peoples of Mexico and Central America Credit Hours: 3	

ARTS 3355	Latin American Art of the Twentieth Century Credit Hours: 3
ARTS 3356	Mexican Art, 1500-Present Credit Hours: 3
GEOG 4302	Geography of Latin America Credit Hours: 3
HIST 2301	Texas History Credit Hours: 3
HIST 3317	Introduction to Latin American History Credit Hours: 3
HIST 3319	Colonial Latin America Credit Hours: 3
HIST 3321	Modern Latin America Credit Hours: 3
HIST 3323	History of Mexico Credit Hours: 3
HIST 4308	The Mexico Borderlands Credit Hours: 3
HIST 4309	Studies in Latin American History Credit Hours: 3
HIST 4310	Latin America and the United States Credit Hours: 3
HUMN 3355	Latin American Art of the Twentieth Century Credit Hours: 3
HUMN 3356	Mexican Art, 1500-Present Credit Hours: 3
LLAS 2301	Topics in Latina/o and Latin American Studies, Humanities Credit Hours: 3
LLAS 2302	Topics in Latina/o and Latin American Studies, Human Sciences Credit Hours: 3
LLAS 4309	Topics in Latina/o and Latin American Studies Credit Hours: 3
PSYC 4349	Psychology of Latina/os in the U.S. Credit Hours: 3
SOCI 4363	American Immigration and the Immigrant Experience Credit Hours: 3
SPAN 1311	Beginning Spanish I Credit Hours: 3
SPAN 1312	Beginning Spanish II Credit Hours: 3

SPAN 2311	Intermediate Spanish I Credit Hours: 3
SPAN 2312	Intermediate Spanish II Credit Hours: 3

Minor in Literature

A minor in Literature serves students seeking to improve their critical thinking skills and knowledge of literary texts, genres, and traditions while pursuing careers in teaching, writing, and communication or continuing to graduate studies. For a Literature minor, students must complete 15 hours or five courses in LITR. All courses for minor credit must be completed with a grade of "C" or better. At least one course (3 hours) must be 2300-level, but no more than two courses may be 2300level. At least one course must be at the 4300level. Four of the five courses must satisfy one of the area requirements below. The fifth course may be from the area requirements or from the electives category.

Lower-Level LITR courses		
Choose at least ONE but no more than ?	TWO of the following courses.	
LITR 2321	British Literature Credit Hours: 3	
LITR 2326	American Literature Credit Hours: 3	
LITR 2341	Literature and Experience Credit Hours: 3	
American Literature		
Choose ONE of the following courses.		
LITR 2326	American Literature Credit Hours: 3	
LITR 4328	The American Renaissance Credit Hours: 3	
LITR 4330	American Realism and Naturalism Credit Hours: 3	

LITR 4334	The American Novel Credit Hours: 3	
LITR 4335	American Modernism Credit Hours: 3	
LITR 4336	Contemporary American Literature Credit Hours: 3	
British Literature		
Choose ONE of the following courses.		
LITR 2321	British Literature Credit Hours: 3	
LITR 4318	Restoration and 18th–Century British Literature Credit Hours: 3	
LITR 4320	The Romantic Movement in British Literature Credit Hours: 3	
LITR 4321	Jane Austen Credit Hours: 3	
LITR 4322	Victorian Literature Credit Hours: 3	
LITR 4324	Rise and Development of the British Novel Credit Hours: 3	
Pre-1700 British Literature		
Choose ONE of the following courses.		
LITR 3361	Shakespeare Credit Hours: 3	
LITR 4312	Chaucer Credit Hours: 3	
LITR 4316	16th- and 17th-Century British Literature Credit Hours: 3	
World or Multicultural Literature		
Choose ONE of the following courses listed.		
LITR 3334	Mythology Credit Hours: 3	
LITR 4326	Early American Literature Credit Hours: 3	
LITR 4338	American Minority Literature Credit Hours: 3	
LITR 4340	American Immigrant Literature Credit Hours: 3	

LITR 4342	Modern and Contemporary Drama Credit Hours: 3
LITR 4344	The Modern Novel Credit Hours: 3
LITR 4345	Contemporary Novel Credit Hours: 3
LITR 4346	Medieval Literature Credit Hours: 3
LITR 4350	Masterpieces of 19th-Century European Literature Credit Hours: 3
LITR 4352	Masterpieces of 20th-Century European Literature Credit Hours: 3

Elective courses in the minor (0-3 hours)	
LITR 2341	Literature and Experience Credit Hours: 3
LITR 3301	Literary Studies: Genres and Critical Perspectives Credit Hours: 3
LITR 3371	Creative Writing Credit Hours: 3
LITR 4301	Literary Theory Credit Hours: 3
LITR 4304	Workshop in Poetics Credit Hours: 3
LITR 4342	Modern and Contemporary Drama Credit Hours: 3
LITR 4344	The Modern Novel Credit Hours: 3
LITR 4345	Contemporary Novel Credit Hours: 3
LITR 4350	Masterpieces of 19th-Century European Literature Credit Hours: 3
LITR 4352	Masterpieces of 20th-Century European Literature Credit Hours: 3
LITR 4356	Modern American and British Poetry Credit Hours: 3
LITR 4358	Contemporary Poetry Credit Hours: 3
LITR 4360	Film as Literature Credit Hours: 3
LITR 4362	The Literature of Adolescence Credit Hours: 3

LITR 4364	Women in Literature Credit Hours: 3
LITR 4366	Literature and Religion Credit Hours: 3
LITR 4368	Literature of the Future Credit Hours: 3
LITR 4370	Tragedy Credit Hours: 3
LITR 4371	Comedy Credit Hours: 3

Minor in Marketing

This minor is designed to provide students with the consumer-oriented way of thinking and an overview of marketing activities to promote long-term success. Activities include conducting market research to identify segments of the market to target; developing and pricing products or service offerings; communicating about product or service offerings through advertising, sales, sales promotion and public relations; and getting products or services into the hands of customers.

Required Courses in Minor (6 hours)	
MKTG 3301	Principles of Marketing Credit Hours: 3
MKTG 3343	Consumer Behavior Credit Hours: 3
Marketing Electives (9 hours required)	
MKTG 3313	Marketing Channels and Distribution Credit Hours: 3
MKTG 3314	Logistics Strategy Credit Hours: 3
MKTG 3331	Integrated Marketing Communications
MKTG 3332	Professional Selling Credit Hours: 3
MKTG 3344	Internet Marketing Credit Hours: 3

MKTG 3346	Healthcare Marketing Credit Hours: 3
MKTG 3347	Customer Relationship Management Credit Hours: 3
MKTG 3348	Retail Management Credit Hours: 3
MKTG 3351	Marketing Research Credit Hours: 3
MKTG 4189	Independent Studies in Marketing Credit Hours: 3
MKTG 4311	Sales Management Credit Hours: 3
MKTG 4332	Services Marketing Credit Hours: 0
MKTG 4333	Marketing for Entrepreneurs Credit Hours: 3
MKTG 4334	Marketing Strategy
MKTG 4335	Brands and Brand Management Credit Hours: 3
MKTG 4351	International Marketing Credit Hours: 3
MKTG 4352	Seminar in International Marketing Credit Hours: 3
MKTG 4379	Internship in Marketing Credit Hours: 3
MKTG 4389	Independent Studies in Marketing Credit Hours: 3
MKTG 4391	Selected Topics in Marketing Credit Hours: 3

Students must include the minor in the degree plan no later than the achievement of senior status. Minors must be completed as part of a planned degree program prior to graduation. Substitutions in a minor can be initiated by either the major- or minor-granting department, but must be approved by both departments. A minor is displayed on the transcript after graduation, but is not displayed on the diploma.

Minors are not required of any student and must not extend beyond the total number of hours for program completion (120 hours). For each minor, students must complete at least 15 hours with at least nine of these hours drawn from Upper-Level (33XX and/or 43XX) course offerings. All courses for minor credit must be completed with a grade of C or above.

Minor in Mathematics

A minor in Mathematics will serve students who wish to follow a related interest or to expand their job prospects.

Required courses in the minor (6 hours)	
Students may choose either MATH 2318 or MATH 2320 for the remaining required hours.	
MATH 2315	Calculus III Credit Hours: 3

Elective courses in the minor (9 hours)	
MATH 3331	Advanced Calculus Credit Hours: 3
MATH 4363	Functions of a Complex Variable Credit Hours: 3
MATH 3312	Number Theory Credit Hours: 3
MATH 4315	Numerical Analysis and its Applications Credit Hours: 3
MATH 4325	Theory of Models and Applications Credit Hours: 3
MATH 4344	Introduction to Probability Credit Hours: 3
MATH 4345	Introduction to Statistics Credit Hours: 3
MATH 4348	Introduction to Financial Math for Exam FM Credit Hours: 3
Additional Information	

Additional Information

No math education courses or independent study are allowed in order to fulfill minor requirements.

Minor in Middle Eastern Studies

The minor in Middle Eastern Studies at UHCL is highly interdisciplinary, drawing on coursework from the social sciences and the humanities, and is designed to give students an introduction to the region in global and comparative perspectives. The minor provides opportunities for studying topics such as regional geographies, history, politics, languages, religion, art, and ethnic and soci-cultural diversity. The Middle Eastern Studies Minor includes an emphasis on religious traditions and communities, interfaith studies, Islamic studies, the pre-Islamic period, the Byzantine period, the emergence of Abrahamic traditions and Islam, as well as the contemporary Middle East. Coursework for the minor may focus on Africa, the Levant, The Arab Gulf, Turkey, Israel, Iran, and South Asia. The minor focuses on diasporic flows of peoples and ideas, social movements, migrations, and peace and conflict studies.

Students must complete 15 hours from courses listed below. All courses for minor credit must be completed with a grade of "C" or better. Students may also take independent studies in self-directed areas of specialization with prior approval from their major advisers and the Middle Eastern minor adviser.

Required courses in minor (15 hours)	
Students must take coursework in at least two different disciplines. Please see additional notes regarding required course topics.	
ANTH 3357	Topics in African Studies Credit Hours: 3

ANTH 3358	Topics in Middle Eastern Societies Credit Hours: 3
ANTH 4303	Islam in America Credit Hours: 3
HIST 4313	Studies in U.S. History Credit Hours: 3
HIST 4325	Studies in Middle Eastern History Credit Hours: 3
HUMN 4326	Studies in Film Credit Hours: 3
SOCI 4329	Egypt in Transition Credit Hours: 3
SOCI 4363	American Immigration and the Immigrant Experience Credit Hours: 3
WGST 4312	Women of Color Credit Hours: 3

Additional Information

- ANTH 3358 when the topic is Islam in Africa, Gender, Media, and Diplomacy in the Arab World, or Peoples and Cultures of the Middle East.
- HIST 4313 when the topic is Islam, The Middle East and the USA, or The Iraq War in Film.
- HIST 4325 when the topic is The Middle East from Colonialism to Post-Colonialism, The Modern Middle East, or Israeli-Palestine Conflict
- HUMN 4326 when the topic is the Iraq War in Film
- WGST 4312 when the topic is Gender, Media, and Diplomacy in the Arab World, Peoples and Cultures of the Middle East, Islam in Africa, or Islam in America.

Minor in Philosophy

The minor in philosophy provides an introduction to the topics of philosophy and training in the basic skills of philosophical thinking.

Required course in minor (3 hours)		
PHIL 1301 Introduction to Philosophy Credit Hours: 3		
Elective courses (12 hours)		
Choose 4 PHIL courses at the 3300 or 4300 level		

Minor in Physics

A minor in Physics will serve students who wish to expand their problem solving ability. These skills can be used in a variety of careers from science to business or law.

Required courses in the minor (12 hours)	
PHYS 2125	Laboratory for University Physics I Credit Hours: 1
PHYS 2126	Laboratory for University Physics II Credit Hours: 1
PHYS 2325	University Physics I Credit Hours: 3
PHYS 2326	University Physics II Credit Hours: 3
PHYS 3103	Laboratory for Modern Physics Credit Hours: 1
PHYS 3303	Modern Physics Credit Hours: 3

Elective courses in the minor (6 hours)	
Choose any 2 courses listed.	
PHYS 3321	Intermediate Mechanics Credit Hours: 3
PHYS 3331	Intermediate Electromagnetism Credit Hours: 3
PHYS 3342	Quantum Theory Credit Hours: 3
PHYS 3351	Thermodynamics & Statistical Mechanics Credit Hours: 3

Minor in Professional Writing

A minor in Professional Writing will serve students who wish to improve their oral and written communication skills and develop an understanding of the writing genres that are appropriate to various disciplines and professional occupations. In all, students must complete 15 hours as indicated drawn from 3300- and/or 4300-level course offerings.

All courses for minor credit must be completed with a grade of "C" or above.

Elective courses in the minor (15 hours)	
Prerequisites for all courses in the minor include the completion of WRIT 1301 and WRIT 1302 with a grade of "C-" or better and junior-level standing.	
WRIT 3304	Writing for Education Credit Hours: 3
WRIT 3305	Writing for the Humanities Credit Hours: 3
WRIT 3306	Writing for the Social Sciences Credit Hours: 3
WRIT 3307	Advanced Writing Credit Hours: 3
WRIT 3312	Written Communications in Business Credit Hours: 3
WRIT 3315	Advanced Technical Writing Credit Hours: 3
WRIT 4310	Writing for the Public: Developing Non-Profit Communication Strategies Credit Hours: 3
WRIT 4311	Grant and Proposal Writing Credit Hours: 3
WRIT 4312	The Rhetoric of Popular Culture Credit Hours: 3
WRIT 4313	Graffiti, Texting, and Networked Politics: The Sociolinguistics of Writing Credit Hours: 3
WRIT 4314	Collaborative Writing Pedagogy Credit Hours: 3
WRIT 4391	Selected Topics in Writing Credit Hours: 3

Minor in Public Service Leadership

A minor in Public Service Leadership will serve HSH majors who wish to have careers in leadership and/or management in the public sector. Students who select the PSL minor must satisfy the general university requirements for a minor as well as the specific minor requirements below. In all, students must complete 15 hours as indicated below with at least 9 of those hours drawn from 3300- and/or 4300-level course offerings.

All courses for minor credit must be completed with a grade of "C" or better.

Required courses in the minor (6 hours)		
PSLD 4343	Public Service Management Credit Hours: 3	
PSLD 4344	Public Service Leadership Credit Hours: 3	
Elective courses in the minor (9 hours)		
PSLD 4345	Strategic Planning Credit Hours: 3	
PSLD 4347	Managerial Issues in Diversity Credit Hours: 3	
PSLD 4348	Crisis and Emergency Management Credit Hours: 3	
PSLD 4349	Ethics and Law Credit Hours: 3	

Minor in Social Work

Students may minor in Social Work in order to gain an overview of the discipline and to develop knowledge and skills for working with diverse populations. Completion of coursework in the minor will emphasize social justice, an introduction to professional ethics, and practical interviewing skills needed within entry level human service agencies. In all, students must complete 15 hours as indicated below. All courses for minor credit must be completed with a grade of "C" or better.

Required courses in the minor (15 hours)	
Of special note: SWRK 4318 should be taken after completing all other coursework for the minor.	
SWRK 3301	Introduction to Social Work Credit Hours: 3
SWRK 3304	Issues and Ethics in Social Work Credit Hours: 3
SWRK 3314	Diversity and Human Behavior in the Social Environment Credit Hours: 3
SWRK 3317	Social Welfare Policy and Services Credit Hours: 3
SWRK 4318	Social Work Practice I Credit Hours: 3

Minor in Sociology

Students may earn a minor in Sociology by taking 15 hours of structured SOCI classes. This may be accomplished in combination with a major in one of the other social sciences and/or by using electives to accumulate the 15 hours.

Required courses in the minor (3 hours)	
Complete SOCI 4322 and one of the remaining courses listed.	
SOCI 1301	Introduction to Sociology Credit Hours: 3
SOCI 1306	Social Problems Credit Hours: 3
SOCI 3335	Deviance Credit Hours: 3
SOCI 4322	Theories of Society Credit Hours: 3

Elective courses (9 hours)	
SOCI 4358	Family and Society Credit Hours: 3
SOCI 4355	Minorities in America Credit Hours: 3
SOCI 4341	Women in Society Credit Hours: 3

Minor in Special Education (SPED) 15 hours

The 15-hour minor in Special Education (SPED) in the College of Education can provide undergraduates with foundational knowledge about special needs and disabilities as well as teaching theories and practices in addressing the educational needs of learners. This minor may be of special interest to psychology and social work students who may wish to work with children who have special learning needs, from early childhood to adulthood, and their families.

Required courses in the minor (15 hours)	
SPED 2301 and SPED 4300 are to be taken in sequence, that is first and second, since they serve as prerequisites for the other 3 SPED courses.	
SPED 2301	Introduction to Special Populations Credit Hours: 3
SPED 4300	Survey of Exceptionalities Credit Hours: 3
SPED 4311	Assessment in Special Education Credit Hours: 3
SPED 4321	Implementing Positive Behavior Supports Credit Hours: 3
SPED 4332	Early Childhood Special Education Credit Hours: 3

Minor in Teacher Education (15 hours)

The 15-hour minor in Teacher Education in the College of Education will provide students foundational knowledge in multiple educational areas including early childhood, special populations, multiculturalism, learning theories, and instructional technologies. This minor may be of special interest to students who want to develop their interest in the teaching profession. Moreover, it would provide basic information in working in various types of formal and information educational settings like afterschool and tutoring programs.

Required courses in the minor (15 hours)	
Complete any 5 of the courses listed. at the 3000/4000 level.	At least 3 of the courses selected must be
ECED 1303	Children and Families Credit Hours: 3
ECED 1311	Historical and Recent Trends in Early Childhood Education Credit Hours: 3
ECED 1318	Nutrition, Health and Safety Credit Hours: 3
ECED 1354	Developmental Theories of Young Children Credit Hours: 3
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
LLLS 4311	Survey of Reading Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3
SPED 2301	Introduction to Special Populations Credit Hours: 3
SPED 4300	Survey of Exceptionalities Credit Hours: 3

TCED 1301 Exploring Teaching as a Profession Credit Hours: 3

Minor in Youth and Police Studies

The Criminology program offers a minor for students interested in gaining academic and practical skills in the area of youth development, policing, and the interaction between police and teens. Students must complete the following five courses at the University of Houston–Clear Lake.

Required courses in the minor (15 hours)	
CRIM 4391 may be taken for minor credit only when the topic is Youth, Law, and Society.	
CRIM 1301	Introduction to Criminal Justice Credit Hours: 3
CRIM 4313	Juvenile Delinquency Credit Hours: 3
CRIM 4338	Policing and Society Credit Hours: 3
CRIM 4391	Selected Topics in Criminology Credit Hours: 3
PSYC 4315	Adolescent Psychology Credit Hours: 3

Teacher Certification

Post-Baccalaureate Teacher Certification Plan Core Subjects 4-8

This plan has a content waiver option based on passing the content state assessment on the first attempt. See a College of Education (COE) adviser for details.

Check prerequisites before enrolling in any courses.

Certification Plan Requirements

Academic Specialization Courses:

Academic Specialization Courses:		
Nine hours of upper-level courses required, one course from each of the following areas: Biology, Earth Science, and Physics/Chemistry/Astronomy		
LLLS 4345	Survey of Children's Literature Credit Hours: 3	
LLLS 4351	Reading in Content Subjects Credit Hours: 3	
MATH 1351	Mathematics for Teachers II Credit Hours: 3	
Choose one course from:		
LITR 3302	Principles of Composition Credit Hours: 3	
WRIT 3304	Writing for Education Credit Hours: 3	
WRIT 3307	Advanced Writing Credit Hours: 3	
Choose one course from:		
GEOG 1303	World Regional Geography Credit Hours: 3	

GEOG 4314	Teaching Geography Credit Hours: 3
Choose one course from:	
HIST 2301	Texas History Credit Hours: 3
HIST 3325	Colonial America Credit Hours: 3
HIST 3327	The New American Nation Credit Hours: 3
HIST 3330	Civil War and Reconstruction Credit Hours: 3

College of Education Core Requirements:

College of Education Core Requirements:	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3

Pedagogy:

Pedagogy:	
TCED 4331	Social Studies Methods for Grades 4-8 Credit Hours: 3
TCED 4332	Science Methods for Grades 4-8 Credit Hours: 3
TCED 4333	Mathematics Methods for Grades 4-8 Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3
TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9
TCED 4678	Post-Degree Internship I Credit Hours: 6
TCED 4679	Post-Degree Internship II/Student Teaching Credit Hours: 6

Other required courses:

Other required courses:	
SPED 4300	Survey of Exceptionalities Credit Hours: 3
TCED 4100	Core Subjects Teacher Seminar Credit Hours: 1
TCED 4303	Creating Positive Learning Environments in EC-6 Credit Hours: 3

Post-Baccalaureate Teacher Certification Plan Core Subjects EC-6 (Early Childhood Concentration)

Check prerequisites before enrolling in any courses.

Certificate Plan Requirements

Academic Specialization Courses:

Academic Specialization Courses:	
ECED 1303	Children and Families Credit Hours: 3
ECED 1311	Historical and Recent Trends in Early Childhood Education Credit Hours: 3
ECED 4302	Developing Competence in Young Children Credit Hours: 3
ECED 4311	Reading Development in Young Children Credit Hours: 3
ECED 4314	Observational/Developmental Assessment of Young Children Credit Hours: 3
TCED 4303	Creating Positive Learning Environments in EC-6 Credit Hours: 3

College of Education Core Requirements:

College of Education Core Requirements:	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3

Pedagogy:

<u> </u>	
Pedagogy:	
TCED 4321	Social Studies Methods for EC-6 Credit Hours: 3
TCED 4322	Science Methods for EC-6 Credit Hours: 3
TCED 4323	Mathematics Methods for EC-6 Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3
TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9
TCED 4678	Post-Degree Internship I Credit Hours: 6
TCED 4679	Post-Degree Internship II/Student Teaching Credit Hours: 6

Other required courses:

Other required courses:	
ARTS 2379	Arts and the Child Credit Hours: 3
HLTH 3302	Health and Physical Education - EC-6 Survey Credit Hours: 3
LLLS 4344	Reading & Writing for EC-6 Credit Hours: 3
LLLS 4345	Survey of Children's Literature Credit Hours: 3
SPED 4300	Survey of Exceptionalities Credit Hours: 3

TCED 4100 Core Subjects Teacher Seminar Credit Hours: 1

Post-Baccalaureate Teacher Certification Plan Core Subjects EC-6 (Reading Concentration)

Check prerequisites before enrolling in any courses.

Certificate Plan Requirements

Academic Specialization Courses:

Academic Specialization Courses:	
LLLS 4311	Survey of Reading Credit Hours: 3
LLLS 4313	Corrective and Remedial Reading Credit Hours: 3
LLLS 4332	Diagnostic and Prescriptive Reading Credit Hours: 3
LLLS 4344	Reading & Writing for EC-6 Credit Hours: 3
LLLS 4345	Survey of Children's Literature Credit Hours: 3
LLLS 4379	Practicum in Clinical Reading Credit Hours: 3

College of Education Core Requirements:

College of Education Core Requirements:	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3

Pedagogy:

Pedagogy:	
TCED 4321	Social Studies Methods for EC-6 Credit Hours: 3
TCED 4322	Science Methods for EC-6 Credit Hours: 3
TCED 4323	Mathematics Methods for EC-6 Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3
TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9
TCED 4678	Post-Degree Internship I Credit Hours: 6
TCED 4679	Post-Degree Internship II/Student Teaching Credit Hours: 6

Other required courses:

Other required courses:
ARTS 2379HLTH 3302SPED 4300TCED 4303TCED 4100

Post-Baccalaureate Teacher Certification Plan Core Subjects EC-6 ESL Supplemental

Check prerequisites before enrolling in any courses.

Certificate Plan Requirements

Academic Specialization Courses:	
SILC 4302	Introduction to the Study of
	Languages
	Credit Hours: 3

SILC 4310	Foundations of Bilingual and ESL Education Credit Hours: 3
SILC 4311	ESL Methods Credit Hours: 3
SILC 4312	Content-Based ESL Credit Hours: 3
SILC 4313	Language Learning Credit Hours: 3

College of Education Core Requirements:	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3

Pedagogy:

Pedagogy:	
TCED 4321	Social Studies Methods for EC-6 Credit Hours: 3
TCED 4322	Science Methods for EC-6 Credit Hours: 3
TCED 4323	Mathematics Methods for EC-6 Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3
TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9
TCED 4678	Post-Degree Internship I Credit Hours: 6
TCED 4679	Post-Degree Internship II/Student Teaching Credit Hours: 6

Other required courses:

Other required courses:	
ARTS 2379	Arts and the Child Credit Hours: 3

HLTH 3302	Health and Physical Education - EC-6 Survey Credit Hours: 3
LLLS 4344	Reading & Driting for EC-6 Credit Hours: 3
SPED 4300	Survey of Exceptionalities Credit Hours: 3
TCED 4100	Core Subjects Teacher Seminar Credit Hours: 1
TCED 4303	Creating Positive Learning Environments in EC-6 Credit Hours: 3

Post-Baccalaureate Teacher Certification Plan Core Subjects EC-6 Special Education EC-12

Check prerequisites before enrolling in any courses.

Certificate Plan Requirements

Academic Specialization Courses:

Academic Specialization Courses:	
SPED 4311	Assessment in Special Education Credit Hours: 3
SPED 4312	Diagnostic Instruction for Learners With Special Needs Credit Hours: 3
SPED 4313	Individualizing Instruction for Students With Disabilities Credit Hours: 3
SPED 4321	Implementing Positive Behavior Supports Credit Hours: 3
SPED 4332	Early Childhood Special Education Credit Hours: 3

College of Education Core Requirements:	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3

Pedagogy:

Pedagogy:	
TCED 4321	Social Studies Methods for EC-6 Credit Hours: 3
TCED 4322	Science Methods for EC-6 Credit Hours: 3
TCED 4323	Mathematics Methods for EC-6 Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3
TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9
TCED 4678	Post-Degree Internship I Credit Hours: 6
TCED 4679	Post-Degree Internship II/Student Teaching Credit Hours: 6

Other required courses:

Other required courses:	
ARTS 2379	Arts and the Child Credit Hours: 3
HLTH 3302	Health and Physical Education - EC-6 Survey Credit Hours: 3
LLLS 4344	Reading & Writing for EC-6 Credit Hours: 3
LLLS 4345	Survey of Children's Literature Credit Hours: 3
TCED 4303	Creating Positive Learning Environments in EC-6 Credit Hours: 3

TCED 4100	Core Subjects Teacher Seminar
	Credit Hours: 1

Post-Baccalaureate Teacher Certification Plan Core Subjects EC-6 with Bilingual Supplemental

Check prerequisites before enrolling in any courses.

Certificate Plan Requirements

Academic Specialization Courses:

Academic Specialization Courses:	
SILC 4301	Spanish for Bilingual Teachers Credit Hours: 3
SILC 4310	Foundations of Bilingual and ESL Education Credit Hours: 3
SILC 4313	Language Learning Credit Hours: 3
SILC 4316	Bilingual Curriculum in the Content Areas Credit Hours: 3
SILC 4351	Development of Biliteracy Credit Hours: 3

College of Education Core Requirements:

College of Education Core Requirements:	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3

Pedagogy:

Pedagogy:	
TCED 4321	Social Studies Methods for EC-6 Credit Hours: 3
TCED 4322	Science Methods for EC-6 Credit Hours: 3
TCED 4323	Mathematics Methods for EC-6 Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3
TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9
TCED 4678	Post-Degree Internship I Credit Hours: 6
TCED 4679	Post-Degree Internship II/Student Teaching Credit Hours: 6

Other required courses:

Other required courses:	
ARTS 2379	Arts and the Child Credit Hours: 3
HLTH 3302	Health and Physical Education – EC-6 Survey Credit Hours: 3
LLLS 4344	Reading & Writing for EC-6 Credit Hours: 3
SPED 4300	Survey of Exceptionalities Credit Hours: 3
TCED 4100	Core Subjects Teacher Seminar Credit Hours: 1
TCED 4303	Creating Positive Learning Environments in EC-6 Credit Hours: 3

Post-Baccalaureate Teacher Certification Plan

English Language Arts and Reading 4-8

This plan has a content waiver option based on passing the content state assessments on the first attempt. See a College of Education (COE) adviser for details.

Check prerequisites before enrolling in any courses.

Certificate Plan Requirements

Academic Specialization Courses:

Academic Specialization Courses:	
LITR 3361	Shakespeare Credit Hours: 3
LITR 3302	Principles of Composition Credit Hours: 3
LLLS 4311	Survey of Reading Credit Hours: 3
LLLS 4345	Survey of Children's Literature Credit Hours: 3
LLLS 4346	Teaching Language Arts in the 4-8 Classroom Credit Hours: 3
LLLS 4351	Reading in Content Subjects Credit Hours: 3
Choose two courses from:	
LITR 3371	Creative Writing Credit Hours: 3
LITR 4320	The Romantic Movement in British Literature Credit Hours: 3
LITR 4336	Contemporary American Literature Credit Hours: 3
LITR 4340	American Immigrant Literature Credit Hours: 3
LITR 4356	Modern American and British Poetry Credit Hours: 3

LITR 4368	Literature of the Future
	Credit Hours: 3

College of Education Core Requirements:	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3

Pedagogy:

Pedagogy:	
TCED 4378	Pre-Service Internship I Credit Hours: 3
TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9
TCED 4678	Post-Degree Internship I Credit Hours: 6
TCED 4679	Post-Degree Internship II/Student Teaching Credit Hours: 6

Other required courses:

Other required courses:	
SPED 4300	Survey of Exceptionalities Credit Hours: 3
TCED 4102	Secondary (4-8 and 7-12) Content Teacher Seminar Credit Hours: 1
TCED 4304	Creating Positive Learning Environments in 4-8 Credit Hours: 3

Post-Baccalaureate Teacher Certification Plan

English Language Arts and Reading 7-12

This plan has a content waiver option based on passing the content state assessment on the first attempt. See a College of Education (COE) adviser for details.

Check prerequisites before enrolling in any courses.

Certificate Plan Requirements

Academic Specialization Courses:

Academic Specialization Courses:		
LITR 3302	Principles of Composition Credit Hours: 3	
LITR 3361	Shakespeare Credit Hours: 3	
LLLS 4311	Survey of Reading Credit Hours: 3	
LLLS 4351	Reading in Content Subjects Credit Hours: 3	
LLLS 4352	Young Adult Literature and Reading Credit Hours: 3	
Choose two courses from:		
LITR 3334	Mythology Credit Hours: 3	
LITR 3371	Creative Writing Credit Hours: 3	
LITR 4301	Literary Theory Credit Hours: 3	
LITR 4304	Workshop in Poetics Credit Hours: 3	
LITR 4324	Rise and Development of the British Novel Credit Hours: 3	
LITR 4342	Modern and Contemporary Drama Credit Hours: 3	

LITR 4344	The Modern Novel Credit Hours: 3
LITR 4356	Modern American and British Poetry Credit Hours: 3
LITR 4358	Contemporary Poetry Credit Hours: 3
LITR 4360	Film as Literature Credit Hours: 3
LITR 4362	The Literature of Adolescence Credit Hours: 3
LITR 4364	Women in Literature Credit Hours: 3
LITR 4368	Literature of the Future Credit Hours: 3
LITR 4370	Tragedy Credit Hours: 3
LITR 4371	Comedy Credit Hours: 3

College of Education Core Requirements:	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3

Pedagogy:

Pedagogy:	
LLLS 4364	Methods in Secondary English/ Language Arts Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3
TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9
TCED 4678	Post-Degree Internship I Credit Hours: 6

TCED 4679	Post-Degree Internship II/Student
	Teaching
	Credit Hours: 6

Other required courses:

Other required courses:	
SPED 4300	Survey of Exceptionalities Credit Hours: 3
TCED 4102	Secondary (4-8 and 7-12) Content Teacher Seminar Credit Hours: 1
TCED 4306	Creating Positive Learning Environments in 7-12 Credit Hours: 3

Post-Baccalaureate Teacher Certification Plan English Language Arts, Reading and Social Studies 4-8

This plan has a content waiver option based on passing the content state assessment on the first attempt. See a College of Education (COE) adviser for details.

Check prerequisites before enrolling in any courses.

Certificate Plan Requirements

Academic Specialization Courses:

Academic Specialization Courses:	
HIST 2301	Texas History Credit Hours: 3
GEOG 1303	World Regional Geography Credit Hours: 3

GEOG 4314	Teaching Geography Credit Hours: 3	
LITR 3361	Shakespeare Credit Hours: 3	
LITR 3302	Principles of Composition Credit Hours: 3	
LLLS 4311	Survey of Reading Credit Hours: 3	
LLLS 4344	Reading & Writing for EC-6 Credit Hours: 3	
LLLS 4351	Reading in Content Subjects Credit Hours: 3	
Choose one:		
HIST 3325	Colonial America Credit Hours: 3	
HIST 3327	The New American Nation Credit Hours: 3	
HIST 3330	Civil War and Reconstruction Credit Hours: 3	
Choose two courses from:		
LITR 3371	Creative Writing Credit Hours: 3	
LITR 4320	The Romantic Movement in British Literature Credit Hours: 3	
LITR 4336	Contemporary American Literature Credit Hours: 3	
LITR 4340	American Immigrant Literature Credit Hours: 3	
LITR 4356	Modern American and British Poetry Credit Hours: 3	
LITR 4368	Literature of the Future Credit Hours: 3	

Core of Education Core Requirements:	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3

Pedagogy:

Pedagogy:	
TCED 4331	Social Studies Methods for Grades 4-8 Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3
TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9
TCED 4678	Post-Degree Internship I Credit Hours: 6
TCED 4679	Post-Degree Internship II/Student Teaching Credit Hours: 6

Other required courses:

Other required courses:	
BIOL Elective - Choose any biologyGEOL Elective - Choose any geologyPHYS/ CHEM/ASTR Elective - Choose any physics, chemistry, or astronomy	
SPED 4300	Survey of Exceptionalities Credit Hours: 3
TCED 4102	Secondary (4-8 and 7-12) Content Teacher Seminar Credit Hours: 1
TCED 4304	Creating Positive Learning Environments in 4-8 Credit Hours: 3

Post-Baccalaureate Teacher Certification Plan History 7-12

This plan has a content waiver option based on passing the content state assessment on the first attempt. See a College of Education (COE) adviser for details.

Check prerequisites before enrolling in any courses.

Certificate Plan Requirements

Academic Specialization Courses

Academic Specialization Courses	
GEOG 1303	World Regional Geography Credit Hours: 3
HIST 3325	Colonial America Credit Hours: 3
HIST 3330	Civil War and Reconstruction Credit Hours: 3
HIST 4325	Studies in Middle Eastern History Credit Hours: 3

College of Education Core Requirements

College of Education Core Requirements:	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3

Pedagogy

Pedagogy:	
TCED 4361	Methods in Secondary Social Studies Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3
TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9
TCED 4678	Post-Degree Internship I Credit Hours: 6
TCED 4679	Post-Degree Internship II/Student Teaching Credit Hours: 6

Other required courses

Other required courses:	
LLLS 4311	Survey of Reading Credit Hours: 3
LLLS 4351	Reading in Content Subjects Credit Hours: 3
SPED 4300	Survey of Exceptionalities Credit Hours: 3
TCED 4102	Secondary (4-8 and 7-12) Content Teacher Seminar Credit Hours: 1
TCED 4306	Creating Positive Learning Environments in 7-12 Credit Hours: 3

Post-Baccalaureate Teacher Certification Plan Life Sciences 7-12

This plan has a content waiver option based on passing the content state assessment on the first attempt. See a College of Education (COE) adviser for details.

Check prerequisites before enrolling in any courses.

Certificate Plan Requirements

Academic Specialization Courses:

Academic Specialization Courses:	
BIOL Elective- Choose one: BIOL 4343, BIOL 4344, or BIOL 4345 BIOL Elective- Choose one: BIOL 3311, BIOL 3333, or BIOL 4305	
BIOL 1306	Biology for Science Majors I Credit Hours: 3
BIOL 1106	Laboratory for Biology for Science Majors I Credit Hours: 1

BIOL 1307	Biology for Science Majors II Credit Hours: 3
BIOL 1107	Laboratory for Biology for Science Majors II Credit Hours: 1
CHEM 1311	General Chemistry I
CHEM 1111	Laboratory for General Chemistry I Credit Hours: 1
CHEM 1312	General Chemistry II Credit Hours: 3
CHEM 1112	Laboratory for General Chemistry II Credit Hours: 1
BIOL 3341	Molecular Genetics Credit Hours: 3

Pedagogy:

Pedagogy:	
TCED 4362	Methods in Secondary Science Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3
TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9
TCED 4678	Post-Degree Internship I Credit Hours: 6
TCED 4679	Post-Degree Internship II/Student Teaching Credit Hours: 6

Other required courses:

Other required courses:	
LLLS 4311	Survey of Reading Credit Hours: 3
LLLS 4351	Reading in Content Subjects Credit Hours: 3
SPED 4300	Survey of Exceptionalities Credit Hours: 3
TCED 4102	Secondary (4-8 and 7-12) Content Teacher Seminar Credit Hours: 1
TCED 4306	Creating Positive Learning Environments in 7-12 Credit Hours: 3

Post-Baccalaureate Teacher Certification Plan Mathematics 4-8

This plan has a content waiver option based on passing the content state assessment on the first attempt. See a College of Education (COE) adviser for details.

Check prerequisites before enrolling in any courses.

Certificate Plan Requirements

Academic Specialization Courses:

Academic Specialization Courses:		
MATH 2318	Linear Algebra Credit Hours: 3	
MATH 2413	Calculus I Credit Hours: 4	
MATH 2414	Calculus II	
MATH 3304	Algebra Through Technology Credit Hours: 3	
STAT 4344	Introduction to Probability Credit Hours: 3	
Choose four courses from:		
MATH 2315	Calculus III Credit Hours: 3	
MATH 3301	History of Mathematical Sciences Credit Hours: 3	
MATH 3305	Euclidian and Non-Euclidian Geometry Credit Hours: 3	
MATH 3312	Number Theory Credit Hours: 3	
MATH 4315	Numerical Analysis and its Applications Credit Hours: 3	

MATH 4316	Mathematic Software Applications Credit Hours: 3
MATH 4321	Predicate Logic Credit Hours: 3
MATH 4322	Introduction to Abstract Algebra Credit Hours: 3
STAT 4345	Introduction to Statistics Credit Hours: 3

College of Education Core Requirements:	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3

Pedagogy:

Pedagogy:	
TCED 4333	Mathematics Methods for Grades 4-8 Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3
TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9
TCED 4678	Post-Degree Internship I Credit Hours: 6
TCED 4679	Post-Degree Internship II/Student Teaching Credit Hours: 6

Other required courses:

Other required courses:	
LLLS 4345	Survey of Children's Literature Credit Hours: 3
LLLS 4351	Reading in Content Subjects Credit Hours: 3

SPED 4300	Survey of Exceptionalities Credit Hours: 3
TCED 4102	Secondary (4-8 and 7-12) Content Teacher Seminar Credit Hours: 1
TCED 4304	Creating Positive Learning Environments in 4-8 Credit Hours: 3

Post-Baccalaureate Teacher Certification Plan Mathematics 7-12

This plan has a content waiver option based on passing the content state assessment on the first attempt. See a College of Education (COE) adviser for details.

Check prerequisites before enrolling in any courses.

Certificate Plan Requirements

Academic Specialization Courses:

Academic Specialization Courses:	
MATH 2318	Linear Algebra Credit Hours: 3
MATH 2413	Calculus I Credit Hours: 4
MATH 2414	Calculus II
MATH 3304	Algebra Through Technology Credit Hours: 3
MATH 3305	Euclidian and Non-Euclidian Geometry Credit Hours: 3
STAT 4344	Introduction to Probability Credit Hours: 3
Choose five courses from:	
MATH 2315	Calculus III Credit Hours: 3

MATH 2320	Differential Equations Credit Hours: 3
MATH 3301	History of Mathematical Sciences Credit Hours: 3
MATH 4315	Numerical Analysis and its Applications Credit Hours: 3
MATH 4316	Mathematic Software Applications Credit Hours: 3
MATH 4322	Introduction to Abstract Algebra Credit Hours: 3
MATH 4325	Theory of Models and Applications Credit Hours: 3
STAT 4345	Introduction to Statistics Credit Hours: 3

College of Education Core Requirements:	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3

Pedagogy:

Pedagogy:	
TCED 4363	Methods in Secondary Mathematics Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3
TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9
TCED 4678	Post-Degree Internship I Credit Hours: 6
TCED 4679	Post-Degree Internship II/Student Teaching Credit Hours: 6

Other Required Courses:

LLLS 4311	Survey of Reading Credit Hours: 3
LLLS 4351	Reading in Content Subjects Credit Hours: 3
SPED 4300	Survey of Exceptionalities Credit Hours: 3
TCED 4102	Secondary (4-8 and 7-12) Content Teacher Seminar Credit Hours: 1
TCED 4306	Creating Positive Learning Environments in 7-12 Credit Hours: 3

Post-Baccalaureate Teacher Certification Plan Science 4-8

This plan has a content waiver option based on passing the content state assessment on the first attempt. See a College of Education (COE) adviser for details.

Check prerequisites before enrolling in any courses.

Certificate Plan Requirements

Academic Specialization Courses:

Academic Specialization Courses:	
BIOL 1306	Biology for Science Majors I Credit Hours: 3
BIOL 1106	Laboratory for Biology for Science Majors I Credit Hours: 1
BIOL 1307	Biology for Science Majors II Credit Hours: 3
BIOL 1107	Laboratory for Biology for Science Majors II Credit Hours: 1

ENSC 1301	Environmental Science I Credit Hours: 3
ENSC 1101	Laboratory for Environmental Science I Credit Hours: 1
PHYS 1301	College Physics I Credit Hours: 3
PHYS 1101	Laboratory for College Physics I Credit Hours: 1
GEOL 1303	Physical Geology Credit Hours: 3
GEOL 1103	Laboratory for Physical Geology Credit Hours: 1
CHEM 1311	General Chemistry I
CHEM 1111	Laboratory for General Chemistry I Credit Hours: 1

College of Education Core Requirements:	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3

Pedagogy:

Pedagogy:	
TCED 4332	Science Methods for Grades 4-8 Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3
TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9
TCED 4678	Post-Degree Internship I Credit Hours: 6
TCED 4679	Post-Degree Internship II/Student Teaching Credit Hours: 6

Other required courses:

Other required courses:	
LLLS 4345	Survey of Children's Literature Credit Hours: 3
LLLS 4351	Reading in Content Subjects Credit Hours: 3
SPED 4300	Survey of Exceptionalities Credit Hours: 3
TCED 4102	Secondary (4-8 and 7-12) Content Teacher Seminar Credit Hours: 1
TCED 4304	Creating Positive Learning Environments in 4-8 Credit Hours: 3

Post-Baccalaureate Teacher Certification Plan Social Studies 4-8

This plan has a content waiver option based on passing the content state assessment on the first attempt. See a College of Education (COE) adviser for details.

Check prerequisites before enrolling in any courses.

Certificate Plan Requirements

Academic Specialization Courses:

Academic Specialization Courses:	
GEOG 1303	World Regional Geography Credit Hours: 3
GEOG 4314	Teaching Geography Credit Hours: 3
HIST 2301	Texas History Credit Hours: 3
Choose One:	

GEOG 1301	Modern Physical Geography Credit Hours: 3
GEOG 1302	Global Geography Credit Hours: 3
Choose One:	
HIST 3325	Colonial America Credit Hours: 3
HIST 3327	The New American Nation Credit Hours: 3
HIST 3330	Civil War and Reconstruction Credit Hours: 3

College of Education Core Requirements:	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3

Pedagogy:

Pedagogy:	
TCED 4331	Social Studies Methods for Grades 4-8 Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3
TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9
TCED 4678	Post-Degree Internship I Credit Hours: 6
TCED 4679	Post-Degree Internship II/Student Teaching Credit Hours: 6

Other required courses:

Other	required	courses:
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LLLS 4345	Survey of Children's Literature Credit Hours: 3
LLLS 4351	Reading in Content Subjects Credit Hours: 3
SPED 4300	Survey of Exceptionalities Credit Hours: 3
TCED 4102	Secondary (4-8 and 7-12) Content Teacher Seminar Credit Hours: 1
TCED 4304	Creating Positive Learning Environments in 4-8 Credit Hours: 3

Post-Baccalaureate Teacher Certification Plan Social Studies 7-12

This plan has a content waiver option based on passing the content state assessment on the first attempt. See a College of Education (COE) adviser for details.

Check prerequisites before enrolling in any courses.

Certificate Plan Requirements

Academic Specialization Courses:

Academic Specialization Courses:	
GEOG 1301	Modern Physical Geography Credit Hours: 3
GEOG 1303	World Regional Geography Credit Hours: 3
GEOG 4314	Teaching Geography Credit Hours: 3
HIST 2301	Texas History Credit Hours: 3
HIST 3325	Colonial America Credit Hours: 3

HIST 3330	Civil War and Reconstruction
	Credit Hours: 3

College of Education Core Requirements:	
EDUC 4310	Theories of Educational Psychology Credit Hours: 3
INST 3313	Survey of Instructional Technologies Credit Hours: 3
SILC 4315	Theories of American Pluralism Credit Hours: 3

Pedagogy Courses:

Pedagogy Courses:	
TCED 4361	Methods in Secondary Social Studies Credit Hours: 3
TCED 4378	Pre-Service Internship I Credit Hours: 3
TCED 4978	Pre-Service Internship II/Student Teaching Credit Hours: 9
TCED 4678	Post-Degree Internship I Credit Hours: 6
TCED 4679	Post-Degree Internship II/Student Teaching Credit Hours: 6

Other required courses:

Other required courses:	
LLLS 4311	Survey of Reading Credit Hours: 3
LLLS 4351	Reading in Content Subjects Credit Hours: 3
SPED 4300	Survey of Exceptionalities Credit Hours: 3
TCED 4102	Secondary (4-8 and 7-12) Content Teacher Seminar Credit Hours: 1
TCED 4306	Creating Positive Learning Environments in 7-12 Credit Hours: 3

Course Roster

ACCT Accounting

ACCT 2301 Principles of Accounting I – Financial Credit: 3 | Lecture: 3

Accounting concepts and their application in transaction analysis and financial statement preparation; analysis of financial statements; and asset and equity accounting in proprietorships, partnerships and corporations.

ACCT 2302 Principles of Accounting II-Managerial

Credit: 3 | Lecture: 3

Accounting concepts and their application to cost behavior, budgeting, responsibility accounting, cost control and product costing.

Prerequisites: ACCT 2301

ACCT 3331 Managerial Accounting

Credit: 3 | Lecture: 3

Analysis of cost systems and preparation of cost statements. Management use of cost statements for control and financial reporting. Cannot be taken for credit by accounting majors.

Prerequisites: Six semester hours of Principles of Accounting or equivalent.

ACCT 3332 Financial Reporting and Analysis Credit: 3 | Lecture: 3

Intermediate accounting concepts and procedures for financial reporting and analysis. Cannot be taken for credit by accounting majors. Prerequisites: Six semester hours of Principles of Accounting or equivalent.

ACCT 3333 Cost Accounting

Credit: 3 | Lecture: 3

Intensive examination of cost systems, cost behavior, approaches to cost statements, implications for managerial planning and financial reporting.

Prerequisites: Six semester hours of Principles of Accounting or equivalent.

ACCT 3341 Intermediate Accounting I

Credit: 3 | Lecture: 3

Study of the concepts and procedures underlying the measurement and reporting of financial information.

Prerequisites: Six semester hours of Principles of Accounting or equivalent.

ACCT 3342 Intermediate Accounting II Credit: 3 | Lecture: 3

Continuation of the study of concepts and procedures underlying the measurement and reporting of financial information.

Prerequisites: ACCT 3341 or equivalent.

ACCT 4331 Federal Taxation of Individuals Credit: 3 | Lecture: 3

An analysis of the federal income tax laws as they apply to individuals.

Prerequisites: Six semester hours of Principles of Accounting or equivalent.

ACCT 4332 Financial Information Systems Credit: 3 | Lecture: 3

Design and operation of contemporary accounting information systems, including control concepts and reporting responsibilities. *Prerequisites: ACCT 3341 and ISAM 3303 or*

equivalent.

ACCT 4336 Principles of Auditing

Credit: 3 | Lecture: 3

This course is meant to provide students with an introduction to the internal auditing process and profession. Topics include definitions, frameworks, risk identification/analysis, governance/control issues, and conducting internal audit engagements.

Prerequisites: ACCT 3342 or equivalent

ACCT 4337 Business Valuation

Credit: 3 | Lecture: 3

Business valuation teaches the concepts and techniques in using accounting and financial information to determine the value of a business enterprise or ownership interest. The course will cover the theories and standards in business valuation, analysis of financial statements to estimate future income, the commonly used methods of business valuation, such as the income approach, market approach, and assets approach, and the calculation of discount rates. Through this course, students will acquire the basic skills and complete hands-on exercises in valuing closely held businesses and equity investments.

Prerequisites: ACCT 3342 or equivalent

ACCT 4341 Auditing I Credit: 3 | Lecture: 3

An introduction to auditing theory and standards, with emphasis on the attest function, professional ethics and responsibilities, audit risk concepts and audit planning.

Prerequisites: ACCT 3342 or equivalent Corequisites: ACCT 4332 or equivalent

ACCT 4342 Government and Not-for-Profit Accounting

Credit: 3 | Lecture: 3

The course covers the government and not-for-profit environment, fund accounting, budgeting, revenue and expenditure recognition, and financial reporting requirements.

Prerequisites: ACCT 3342 or equivalent.

ACCT 4343 Understanding Financial Statements Credit: 3 | Lecture: 3

Selected advanced topics in financial accounting and introduction to financial statement analysis. Decision-making and analytical skills needed to interpret financial information will be emphasized.

Prerequisites: ACCT 3342 or equivalent.

Corequisites: ACCT 4352

ACCT 4344 Oil and Gas Accounting

Credit: 3 | Lecture: 3

Exploration and production activities of a petroleum company are examined from both a financial and tax accounting standpoint.

Prerequisites: ACCT 3341 or equivalent.

ACCT 4345 Software Applications in Auditing Credit: 3 | Lecture: 3

This course is designed to provide the student with a solid foundation in using various software tools to improve and enhance the audit of financial statements. Students will learn about and have practical experience with manipulating raw data to unlock the useful audit information contained in the raw data. The course will use the tools to perform data extraction, analysis, and sampling. The course will also briefly cover using the tools for fraud detection and prevention.

Prerequisites: ACCT 3341 and ISAM 3303 or equivalents.

Corequisites: ACCT 4332

ACCT 4346 Business Ethics for Accountants Credit: 3 | Lecture: 3

The objective of this course is to provide the student with an educational background in what constitutes ethical conduct in business and accounting. It will provide a framework for making ethical decisions in a student's professional career in accounting. Requires reading and comprehending complex case problems and the use of critical thinking skills to determine a solution. Solutions must be presented in writing in a coherent and grammatically correct manner. Expertise in accounting is required as the cases involve some forensic work to determine what happened and what should have happened.

Prerequisites: ACCT 3341 and ACCT 3342, or ACCT 5133 and ACCT 5134, or equivalents.

ACCT 4352 Advanced Financial Accounting Credit: 3 | Lecture: 3

Accounting for the acquisition and consolidation of domestic and foreign concerns, foreign currency translations and re-measurement; accounting for branches, governmental agencies and other not-for-profit entities.

Prerequisites: ACCT 3342 or equivalent.

ACCT 4353 Federal Taxation of Business Entities Credit: 3 | Lecture: 3

This course is designed to provide a broad overview of entity taxation and the link between the accounting information reported for financial statement purposes and the information reported on business tax returns. It addresses the income tax laws governing the taxation of corporations, partnerships, limited liability companies, limited liability partnerships, and S corporations.

Prerequisites: ACCT 4331 or equivalent.

ACCT 4361 International Accounting Credit: 3 | Lecture: 3 | Lab: 0

Examination of international accounting issues from a managerial accounting and financial reporting perspective. This course addresses the current status of the international financial reporting standards (IFRS) and the challenges facing users of multinational enterprise's financial information when it is prepared using IFRS or other national financial reporting regimes.

Prerequisites: ACCT 3341 or equivalent.

ACCT 4379 Internship in Accounting Credit: 3 | Lecture: 3

Supervised work experience each week in an approved accounting firm, governmental agency, or business. Written work as required by sponsoring faculty member.

Prerequisites: 15 hours of upper-level credit, approval of associate dean and faculty chair, and sponsoring faculty member.

ACCT 4389 Independent Studies in Accounting Credit: 3 | Lecture: 3

Independent directed study in Accounting.

Prerequisites: Approval of instructor, Faculty Chair and Associate Dean required.

ACCT 4391 Selected Topics in Accounting Credit: 3 | Lecture: 3

Identified by specific title each time course is offered.

ACCT 5234 Corporate and Pass Through Entity Taxation

Credit: 3 | Lecture: 0 | Lab: 1

This course addresses entity level taxation including: corporations, partnerships, limited liability companies, limited liability partnerships, S corporations, and fiduciaries. The course examines the link between the accounting information reported for financial statement purposes and the information reported on business tax returns.

Prerequisites: ACCT 5231 or equivalent.

ACCT 5333 Fundamentals of Database Design and Development

Credit: 3 | Lecture: 3 | Lab: 0

The topics covered include the following: database concepts such as database models, modeling techniques and normalization; design, development and maintenance of a relational database and formulation of commands to insert and update data, retrieve information and generate reports from a database. Includes numerous hands-on assignments. (Cross-listed with ISAM 5331.)

Prerequisites: ISAM 3034, or ISAM 5030, or 6 hours college-level programming.

ACCT 5334 Advanced Database Applications Development

Credit: 3 | Lecture: 3 | Lab: 0

The course covers advanced commands and techniques to: design, develop and maintain a database; insert and update data in a database, retrieve information and generate reports and develop and implement database objects to manage, control and administer database processing. Includes numerous hands-on assignments. The coursework requirements also include Oracle SQL and Oracle PL/SQL certifications. (Cross-listed with ISAM 5632.)

Prerequisites: ACCT 2301 or equivalent.

ACCT 5335 Information Systems Audit and Security

Credit: 3 | Lecture: 3 | Lab: 0

Discussion of the audit process, internal controls as they relate to technology, and business process documentation. Study of business processes, deployment and management of technology resources, risk assessment and change management, IT networks, and IT governance. Extensive hands-on experience detecting fraud using generalized audit software (IDEA). Discussion of computer forensics and other current topics related to IT security. Written communication skills are emphasized through the preparation of audit reports based on findings from fraud detection assignments. Covers topics tested in the Certified Information Systems Auditor (CISA) exam. (Crosslisted with ISAM 5731.)

Prerequisites: ISAM 5330 or equivalent.

ACCT 5336 Systems Analysis and Design Credit: 3 | Lecture: 3 | Lab: 0

This course provides a step-by-step approach to developing computer-based information systems. It covers topics such as: systems development life cycle; systems development methodologies; system requirements determination and analysis; user-interface design; programs design and system architecture. The course includes a comprehensive group project. (Cross-listed with ISAM 5635.)

Prerequisites: ISAM 3034, ISAM 5030, or 6 hours of programming courses and ACCT 5333 or equivalent.

ACCT 5337 ERP System Concepts and Practices Credit: 3 | Lecture: 3 | Lab: 1

This course examines the integrated nature of business processes and how ERP systems can be configured to handle those processes. Students receive hands-on experience using SAP's current enterprise software. (Cross-listed with ISAM 5431).

Prerequisites: ACCT 5333 or equivalent.

ACCT 5431 Advanced Accounting

Credit: 3 | Lecture: 3

Accounting and reporting of domestic and foreign consolidated corporations and branches, governmental and other not-for-profit entities. *Prerequisites: ACCT 5134 or equivalent*

ACCT 5432 Acct for Govt & Not Profit Credit: 3 | Lecture: 3

The course covers the government and not-for-profit environment, fund accounting, budgeting, revenue and expenditure recognition, financial reporting requirements, and current issues.

Prerequisites: ACCT 5134 or equivalent

ACCT 6732 Seminar in Fraud Examination and Audit Risk (Capstone)

Lecture: 3 | Lab: 0

Principles, analysis, and application of concepts related to fraud examination, fraud detection, and fraud deterrence. Current issues related to audit risk assessment and planning are also included.

Prerequisites: Other degree requirements and LAST SEMESTER, or permission from instructor.

ANTH Anthropology

ANTH 2346 General Anthropology

Credit: 3 | Lecture: 3 | Lab: 0

Study of human beings, their antecedents and related primates, and their cultural behavior and institutions. Introduces the major subfields: physical and cultural anthropology, archeology, linguistics, and ethnology.

ANTH 3311 Contemporary Cultural Anthropology Credit: 3 | Lecture: 3 | Lab: 0

The comparative study of culture as manifested in technology, language, personality, and religion and in the social, economic, and political organization of societies.

ANTH 3334 Human, Sex, Culture, Health Credit: 3 | Lecture: 3 | Lab: 0

Explores cultural and biological dimensions of human sexuality from a cross-cultural perspective; examines how cultures mediate sexually transmitted disease, reproductive health, and gender roles, among other issues.

ANTH 3352 Political/Economic Anthropology Credit: 3 | Lecture: 3 | Lab: 0

Examination of the methods and theories used by anthropologists to understand political and economic systems in traditional and developing societies.

ANTH 3355 Topics in Asian Studies Credit: 3 | Lecture: 3 | Lab: 0

Investigation of social and cultural diversity. Focuses on religion, economy, politics, and social structure. Topics vary; may be repeated for credit with permission of instructor.

ANTH 3357 Topics in African Studies

Credit: 3 | Lecture: 3 | Lab: 0

Investigation of cultural diversity of African societies and the African diaspora. Topics vary; may be repeated for credit with permission of instructor.

ANTH 3358 Topics in Middle Eastern Societies Credit: 3 | Lecture: 3 | Lab: 0

Investigation of the social and cultural diversity of peoples of the Middle Eastern societies. Focuses on religion, economy, politics, and social structure. Topics vary; may be repeated for credit with permission of instructor.

ANTH 3359 Gender, Media, and Diplomacy in the Arab World

Credit: 3 | Lecture: 3 | Lab: 0

The course looks at U.S. and international policy and its relationship to diplomacy in the Arab World. Students look at the Arab world as it has developed since the dissolution of the Ottoman Empire. This class examines the connections between media production, gender, and nation state identity.

ANTH 3360 Islam in Africa

Credit: 3 | Lecture: 3 | Lab: 0

The course focuses on the growth of Islam in Africa, looking carefully at the ways that different regions of the continent have been home to highly varied Muslim communities.

ANTH 3361 Anthropology of Food

Credit: 3 | Lecture: 3 | Lab: 0

Exploration of production, consumption, and distribution of food in the United States and internationally.

ANTH 3362 Medicine, Bodies, and Culture

Credit: 3 | Lecture: 3 | Lab: 0

Study of the relationships among illness, health, healing systems, the human body, bodily practices, and broader systems of social power through lecture, discussion, films and projects.

ANTH 4301 Studies in Cultural Diversity

Credit: 3 | Lecture: 3 | Lab: 0

Critical examination of cultural diversity as expressed in formations of ethnicity, race, class, nationalism, and gender. Topics vary; may be repeated for credit with permission of instructor.

ANTH 4302 Careers in Anthropology

Credit: 3 | Lecture: 0 | Lab: 0

Explores application of anthropological insights and methods to address practical issues and public policy. Topics may include health, work and business, conflict and mediation, interfaith dialogue, governmental and non-governmental sites, cultural diversity, and education.

ANTH 4303 Islam in America

Credit: 3 | Lecture: 3 | Lab: 0

Explores various communities of Muslims from the American colonial period to the present with an emphasis on ethnic groups in different regions of the U.S.

ANTH 4304 The Arab Gulf: Culture, Economy, Modernity

Credit: 3 | Lecture: 3 | Lab: 0

The course explores the unique cultures of the Arab Gulf region in historical, contemporary, and diplomatic perspectives.

ANTH 4306 Service Learning Credit: 3 | Lecture: 3 | Lab: 0

Service Learning is a course designed for students to take an active part in organized experiences that meet actual community needs combined with academic instruction, focusing on critical, reflective thinking and personal and civic responsibility. This course will involve students in activities that address communityidentified needs with service integrating academic skills.

ANTH 4330 Cultural Study Abroad Credit: 3 | Lecture: 3 | Lab: 0

Course exposes students to culture, history, religion, and politics of another country. Involves foreign travel and includes a prerequisite of semester-long course focusing on the study-abroad country. Permission of instructor required.

ANTH 4333 Peoples of Mexico and Central **America**

Credit: 3 | Lecture: 3 | Lab: 0

A survey of anthropological approaches to the regions of Mexico, Central America, and U.S.-Mexico border. Particular attention paid to gender and women's issues as well as race and class.

ANTH 4334 Native Americans

Credit: 3 | Lecture: 3 | Lab: 0

An examination of the social and cultural diversity of indigenous peoples of North America from anthropological and historical perspectives.

ANTH 4341 Gender and Sexuality in Global Perspectives

Credit: 3 | Lecture: 3 | Lab: 0

Explores the many ways gender and sexuality are constructed cross-culturally. Compares the way different societies conceptualize each gender and assign them social, economic, and political significance.

ANTH 4342 Human Rights and Social Justice Credit: 3 | Lecture: 3 | Lab: 0

Exploration of conceptions of human rights and recent attempts to reconcile such conceptions in the context of globalization and from the perspective of social justice.

ANTH 4343 Anthropological Perspectives on World Religion

Credit: 3 | Lecture: 3 | Lab: 0

Analysis of the ways religion is lived and practiced in diverse communities in the world.

ANTH 4351 Families, Communities, and Globalization

Credit: 3 | Lecture: 3 | Lab: 0

An examination of ideas of family, race, gender, and relatedness in transnational and cross-cultural perspectives. Draws on case studies and theories from anthropology and other fields.

ANTH 4352 World Prehistory and Archaeology

Credit: 3 | Lecture: 3 | Lab: 0

An examination of the basic methods and theories used by archaeologists to explore human evolution and prehistory.

ANTH 4364 Visual Anthropology

Credit: 3 | Lecture: 3 | Lab: 0

Study of anthropology through visual media, specifically film and still photography.

ANTH 4372 Applied Qualitative Methods

Credit: 3 | Lecture: 0 | Lab: 3

Skill-building course focused on different methods, protocols, and techniques of qualitative research practices as applicable in social science studies and beyond.

ANTH 4389 Independent Study in Anthropology

Credit: 3 | Lecture: 0 | Lab: 0
Permission of instructor required.

ANTH 4391 Selected Topics in Anthropology

Credit: 3 | Lecture: 3 | Lab: 0

Identified by specific title each time course is offered. Topics vary; may be repeated for credit with permission of instructor.

ARTS Art and Design

ARTS 1303 World Art Survey I

Credit: 3 | Lecture: 3 | Lab: 0

Examination of painting, sculpture, architecture, and other arts from prehistoric to Renaissance periods.

ARTS 1304 World Art Survey II

Credit: 3 | Lecture: 3 | Lab: 0

Examination of painting, sculpture, architecture, and other arts from the post-Renaissance to the contemporary period.

ARTS 1311 Design Foundations

Credit: 3 | Lecture: 0 | Lab: 3

An exploration of the elements and principles of art within the context of two-dimensional design. Assignments will utilize various media to investigate concepts introduced in lectures and readings. Focus on terminology will enable students to speak and communicate knowledgeably about their work.

ARTS 1316 Drawing Foundations

Credit: 3 | Lecture: 0 | Lab: 3

Introduces an array of materials and techniques fundamental to the practice of drawing. Through observational studies, students will develop a technical and conceptual understanding of this expressive medium.

ARTS 1325 Drawing for Non-Art Majors

Credit: 3 | Lecture: 0 | Lab: 3

Exploration of drawing media, composition, and space relationships using recognizable forms.

ARTS 1371 Photography for Non-Art Majors

Credit: 3 | Lecture: 0 | Lab: 3

Exploration of basic methods and processes of the photographic medium. Topics include use of camera and techniques for taking better photographs.

ARTS 2316 Painting

Credit: 3 | Lecture: 0 | Lab: 3

An introduction to the materials and techniques fundamental to the discipline of painting. Through observational studies, students will develop a technical and conceptual understanding of this expressive medium.

Prerequisites: ARTS 1316

ARTS 2371 Digital Photography

Credit: 3 | Lecture: 3 | Lab: 0

Introduction to Digital Photography. Emphasis on the manual controls of the DSLR camera including ISO, Aperture, and Shutter Speeds. Introduction to Photoshop, image enhancement and combining images. Lectures on portraiture and studio photography.

ARTS 2379 Arts and the Child

Credit: 3 | Lecture: 3 | Lab: 1

Prepares individuals to teach three art forms – visual art, music, theater – to young children through elementary ages.

ARTS 3310 Sculpture

Credit: 3 | Lecture: 0 | Lab: 3

A study of three-dimensional forms as related to techniques, processes, aesthetics, and other materials.

ARTS 3320 Ceramics

Credit: 3 | Lecture: 0 | Lab: 3

Introduction to basic ceramic approaches, materials, and processes including wheel throwing, hand-building, glazing, and kiln firing. Examines contemporary and historical approaches to ceramics focusing on the vessel and sculptural objects.

ARTS 3331 Intermediate Drawing

Credit: 3 | Lecture: 0 | Lab: 3

Expands upon the methods and techniques introduced in beginning drawing courses. Studio assignments will encourage students to relate conceptual ideas with their technical skills while exploring a range of drawing media.

Prerequisites: ARTS 1316 or permission of instructor.

ARTS 3333 Life Drawing

Credit: 3 | Lecture: 0 | Lab: 3

Introduction to techniques of proportion and accuracy in drawing the human form starting from the skeleton and progressing to a live model. Students work in pencil, pastel, and charcoal in both detailed and gesture drawings. Topics vary; may be repeated for credit with permission of instructor.

Prerequisites: ARTS 1316

ARTS 3335 Intermediate Painting

Credit: 3 | Lecture: 0 | Lab: 3

This course expands upon the methods and techniques introduced in beginning painting courses. Studio assignments will encourage students to relate conceptual ideas with their technical skills while exploring a range of painting media.

Prerequisites: ARTS 2316 or permission of instructor.

ARTS 3340 Printmaking

Credit: 3 | Lecture: 0 | Lab: 3

Exploration of printmaking techniques in intaglio, chine-colle etching, woodcuts/linocuts, and monotypes.

Prerequisites: ARTS 3331

ARTS 3341 Fibers

Credit: 3 | Lecture: 0 | Lab: 3

History, design, and techniques of woven and

non-woven fiber forms.

ARTS 3350 Art 1900-1950 Credit: 3 | Lecture: 3 | Lab: 0

Examines the art of Europe, the United States, and Latin America in the first half of the twentieth century. Topics include the birth and growth of modernism, the impact of the World Wars on the artistic communities of the regions studied, and major movements such as Cubism, Dadaism, Fauvism, Impressionism, and Surrealism. (Cross-listed with HUMN 3350.)

ARTS 3351 Art 1950-Present Credit: 3 | Lecture: 3 | Lab: 0

Examines the art of Europe, the United States, and Latin America in the first half of the twentieth century. Topics include art in the aftermath of World War II, conceptualism, performance art, video art, feminist art, and the contemporary art market. (Cross-listed with HUMN 3351.)

ARTS 3352 Traditional Photography

Credit: 3 | Lecture: 3 | Lab: 1

Exploration of methods, processes, and craft of film based on photography. Techniques includes chemical development of photographic film and paper.

Prerequisites: ARTS 2371

ARTS 3355 Latin American Art of the Twentieth Century

Credit: 3 | Lecture: 3 | Lab: 0

Examine the art of 20th century Latin America through a series of major modern art centers, including Mexico City, Havana, Buenos Aires, Rio de Janeiro, Bogota, and Caracas. (Cross-listed with HUMN 3355.)

ARTS 3356 Mexican Art, 1500-Present

Credit: 3 | Lecture: 3 | Lab: 0

Explore the history of visual art in Mexico, beginning with the period of encounter between native populations of that region of the Americas and the European explorers who arrived in the Americas in the late 15th century and continuing through the colonial, independence, and modern eras. (Cross-listed with HUMN 3356.)

ARTS 3357 History and Theory of Photography

Credit: 3 | Lecture: 3 | Lab: 0

Study of history and function of photography from its development in the fine arts to present-day significance of mechanical and digital reproduction. (Cross-listed with HUMN 3357.)

ARTS 3360 Graphic Design Credit: 3 | Lecture: 3 | Lab: 0

Overview of practices of graphic design. Presentations on contemporary design techniques. Design projects in vector drawing using Adobe Illustrator. Previous skills in art, design, and computer software desirable.

ARTS 3365 3D Computer Modeling

Credit: 3 | Lecture: 0 | Lab: 3

Study of 3D modeling techniques for animation, images, and 3D computer sculptures. How to build 3D models. Modeling techniques used in 3D software applications. Texture mapping and lighting in a 3D environment.

Prerequisites: ARTS 2371 and ARTS 3360

ARTS 3369 Illustration

Credit: 3 | Lecture: 0 | Lab: 3

As an introduction to illustration, this course examines different working methods to develop content driven imagery. Assignments will use traditional illustration skills to provide exposure to various materials including pen and ink, acrylic, gouache and experimental media.

ARTS 4189 Independent Study in Art

Credit: 1 | Lecture: 0 | Lab: 0

Permission of instructor required. May be taken for 1 hour of credit. For 2 or 3 credit hours of Independent Study credit, students should enroll in ARTS 4289 or ARTS 4389.

ARTS 4289 Independent Study in Art

Credit: 2 | Lecture: 0 | Lab: 0

Permission of instructor required. May be taken for 2 hour of credit. For 1 or 3 credit hours of Independent Study credit, students should enroll in ARTS 4189 or ARTS 4389.

ARTS 4300 Methods in Elementary Art Education

Credit: 3 | Lecture: 3 | Lab: 1

Examination of EC-6 standards, research, and trends in theory and practice. Curriculum, instructional techniques, and classroom management are fully addressed. TBA practicum required. Permission of instructor required.

ARTS 4301 Methods in Secondary Art Education Credit: 3 | Lecture: 3 | Lab: 1

Examination of 7-12 standards, research and trends in theory and practice. Curriculum instructional techniques, and classroom management are fully addressed. TBA practicum required. Permission of instructor required.

ARTS 4302 Crafts Design

Credit: 3 | Lecture: 0 | Lab: 3

Study of crafts history, design, and techniques. Projects may include paper making, fibers, clay, printmaking, bookmaking, assemblage, and/or other media. May be repeated for credit. This course is studio-focused and does not qualify as an art history elective.

ARTS 4310 Advanced Sculpture

Credit: 3 | Lecture: 0 | Lab: 3

Allows students to develop advanced processes in sculpture. Topics may vary (Lost-Wax Bronze Foundry, Public Sculpture, etc.). May be repeated for credit.

Prerequisites: ARTS 3310

ARTS 4311 Process Sculpture

Credit: 3 | Lecture: 0 | Lab: 3

Study of 3-Dimensional forms through wood and metal fabrication. May be repeated for credit.

Prerequisites: ARTS 3310

ARTS 4312 Art of Ancient Iraq and the Near East

Credit: 3 | Lecture: 3 | Lab: 0

The art, history, and culture of Ancient Iraq and the Near East. Topics include prehistoric art, state formation, ideology, and empire. (Crosslisted with HUMN 4312.)

ARTS 4315 Art of the Ancient Greek World

Credit: 3 | Lecture: 3 | Lab: 0

The art, history, and culture of the ancient Greek world from the Bronze Age through the Hellenistic period. Topics include appropriation, cultural heritage, and gender studies. (Crosslisted with HUMN 4315.)

ARTS 4320 Advanced Ceramics

Credit: 3 | Lecture: 0 | Lab: 3

Emphasis on individual projects and personal growth through technique and concept. Focused investigation and application of ceramic materials, approaches, and processes including wheel-throwing, hand-building, mold making, glazing, and kiln firing. May be repeated for credit.

ARTS 4321 Raku

Credit: 3 | Lecture: 0 | Lab: 3

An ancient Japanese firing technique radically different from the traditional approach.

Materials, tools, and techniques unique to this process will be discussed and practiced. May be repeated for credit.

Prerequisites: ARTS 3320

ARTS 4322 Roman Art

Credit: 3 | Lecture: 3 | Lab: 0

The art, history, and culture of the ancient Roman world from the foundation of Rome (753 B.C.E.) through Constantine (337 C.E.). An investigation of architecture, sculpture, painting and other arts, especially as they relate to the social and political developments of ancient Italy and the Mediterranean. (Cross-listed with HUMN 4322.)

ARTS 4331 Advanced Drawing

Credit: 3 | Lecture: 0 | Lab: 3

This course encourages students to pursue individual approaches and explore drawing as an independent discipline. Through studio drawing practices and integration with the study of theory, students will develop a personal sense of imagery. May be repeated for credit with permission of instructor.

Prerequisites: ARTS 3331 Intermediate Drawing or equivalent.

ARTS 4332 Advanced Life Drawing

Credit: 3 | Lecture: 0 | Lab: 3

Advanced techniques of proportion and accuracy in drawing the human form. Students continue to work from live model in pencil, paste, and charcoal in both detailed and gesture drawings. Topics vary; may be repeated for credit with permission of instructor.

Prerequisites: ARTS 3331 or ARTS 3333

ARTS 4335 Advanced Painting Credit: 3 | Lecture: 0 | Lab: 3

This course encourages students to pursue individual approaches and explore painting as an independent discipline. Through studio painting practices and integration with the study of theory, students will develop a personal sense of imagery. May be repeated for credit.

Prerequisites: ARTS 3335

ARTS 4340 Advanced Printmaking

Credit: 3 | Lecture: 0 | Lab: 3

Exploration of printmaking techniques of intaglio, chine-colle, etching, woodcuts/linocuts and monotypes. May be repeated for credit.

Prerequisites: ARTS 3340 or equivalent.

ARTS 4341 Advanced Fibers

Credit: 3 | Lecture: 0 | Lab: 3

Supervised projects in woven and non-woven techniques with emphasis on color and design.

May be repeated for credit.

Prerequisites: ARTS 3341 Fibers.

ARTS 4348 Information Design

Credit: 3 | Lecture: 3 | Lab: 0

Exploration and design of infographics from a variety of data, statistics, and informational sources. Course lectures include visual translation, visual problem-solving, and overviews of professional infographics. Topics vary.

Prerequisites: ARTS 2371 and ARTS 3360

ARTS 4350 Advanced Photography

Credit: 3 | Lecture: 3 | Lab: 1

Further exploration of traditional photography as an artistic medium. Emphasis on craft, concept, and alternative print processes. Topics

vary; may be repeated for credit.

Prerequisites: ARTS 2371 and ARTS 3352 or

equivalent with instructor approval.

ARTS 4351 Advanced Digital Photography

Credit: 3 | Lecture: 3 | Lab: 0

Emphasis on Photoshop and post-camera processes. Collage work includes Digital Matte Painting and Advanced Photoshop Effects. Access to a DSLR camera required. Topics vary; may be repeated for credit.

Prerequisites: ARTS 2371 or permission of instructor.

ARTS 4352 Video Arts

Credit: 3 | Lecture: 3 | Lab: 0

Exploration of various methods and processes of video production using non-linear editing equipment. Emphasizes concept development, experimentation, and artistic expression. A working knowledge of video cameras and basic editing skills is helpful.

Prerequisites: ARTS 2371

ARTS 4358 History and Theory of Graphic Design

Credit: 3 | Lecture: 3 | Lab: 0

History of graphic design from the inception of written communication to postmodern design and digital revolution.

Prerequisites: ARTS 1303 or ARTS 1304 or permission

of instructor.

ARTS 4363 Advertising Design Credit: 3 | Lecture: 3 | Lab: 0

Survey of image techniques used in the field of advertising. Design projects requiring various computer techniques. Previously established design skills are required.

design skins are required.

Prerequisites: ARTS 2371 and ARTS 3360 or

permission of instructor.

ARTS 4364 Museum Studies Credit: 3 | Lecture: 3 | Lab: 0

Introduces students to the theory and operations of fine arts museums, including strategies of display, collection management, accessions, and public relations. The course will include visits to local gallery and museum spaces. (Cross-listed with HUMN 4364.)

ARTS 4365 3D Animation Credit: 3 | Lecture: 3 | Lab: 1

Fundamental principles of animation. Introduces students to 3D computer animation techniques including key framing, path animation, non-linear animation, and hierarchical animation. Covers story boarding and animation project planning.

Prerequisites: ARTS 3365

ARTS 4366 Propaganda and Persuasive Images Credit: 3 | Lecture: 3 | Lab: 0

Examines the theory and use of propagandistic and persuasive imagery with particular focus on the twentieth century. The propaganda of World War II will comprise a major unit, as well as a study of modern photo manipulation and advertising strategies.

ARTS 4368 Graphic Novel Design

Credit: 3 | Lecture: 3 | Lab: 0

Write, create, and produce original graphic novels. Techniques include both on- and off-computer skills, scripting, character design, and motion studies. Professional examples will be discussed.

Prerequisites: ARTS 3333 and ARTS 3360 or similar with permission of instructor.

ARTS 4369 Digital Illustration

Credit: 3 | Lecture: 3 | Lab: 0

Design projects using various techniques including Adobe software, typography, and photo-illustration. Assignments emphasize concept, creativity, communication, technical achievement, and presentation. Topics vary; may be repeated for credit.

Prerequisites: ARTS 3360 and ARTS 2371, or similar with permission of instructor.

ARTS 4370 Gender and Identity in the Visual Arts

Credit: 3 | Lecture: 3 | Lab: 0

Feminist art theory and criticism, and experiences of women artists in 20th century. Issues such as reclaiming past histories, seeking forms to valorize feminine experience, and exploring personal identity. Women's Studies Course.

ARTS 4371 Renaissance Art

Credit: 3 | Lecture: 3 | Lab: 0

Italian and Northern Renaissance art through lens of Renaissance humanism, patronage, and society. Major artists such as Donatello, Masaccio, Botticelli, Leonardo, Raphael, Michelangelo, Titian, Jan van Eyck, and Durer.

ARTS 4372 Studies in Western European Art

Credit: 3 | Lecture: 3 | Lab: 0

Major post-Renaissance movements from 1600 to 1850: Art of the Baroque and Rococo periods, Neoclassicism, Romanticism. Topics vary; may be repeated for credit with permission of instructor.

ARTS 4373 Impressionism

Credit: 3 | Lecture: 3 | Lab: 0

Spectacle of modern life and artistic avantgardism in Second-Empire Paris, its suburbs, and resort areas by artists such as Manet, Monet, Renior, Degas, and Casatt; the American idiom by Chase, Hassam, and others.

ARTS 4374 Modern Art

Credit: 3 | Lecture: 3 | Lab: 0

Modernity, modernism, fantasy, enigma in early 20th-century European and American art and architecture by such masters as Picasso, Matisse, Kandinsky, Mondrian, Duchamp, Dali, Magritte, Kahlo, Brancusi, Frank Lloyd Wright, Le Corbusier, and O'Keeffe.

ARTS 4375 Contemporary Art

Credit: 3 | Lecture: 3 | Lab: 0

Art theory and criticism - postmodernist discourses. Understanding and interpreting art since 1950. Follows the movements and relevant key figures from Abstract Expressionism to Pop Art to postmodern multiculturalism by such artists such as Rothko, Rauschenberg, Warhol, Nevelson, Beuys, Sherman, Holzer, Kiefer, and Viola.

ARTS 4376 Studies in Non-Western Art

Credit: 3 | Lecture: 3 | Lab: 0

Studies in the art, aesthetics, and cultural politics of India, China, Japan, Africa, and the Americas. Topics vary; may be repeated for credit with permission of instructor.

ARTS 4377 Topics in Contemporary Art

Credit: 3 | Lecture: 3 | Lab: 0

Concentrated study in single topic pertaining to contemporary art (post-WW2 period). Topics vary; may be repeated for credit with permission of instructor.

ARTS 4389 Independent Study in Art

Credit: 3 | Lecture: 0 | Lab: 0

Personal projects in Art. Enrollment requires a written proposal. Permission of instructor required. May be taken for 3 hours of credit.

ARTS 4390 Senior Seminar in Art

Credit: 3 | Lecture: 3 | Lab: 1

Required capstone course for Arts majors. Prepares students for graduate and professional engagement from several theoretical and practical perspectives.

ARTS 4391 Selected Topics in Art

Credit: 3 | Lecture: 3 | Lab: 0

Identified by specific subtitle each time course is offered. Read topic description for more details. Topics vary; may be repeated for credit with permission of instructor.

ARTS 4392 Arts Internship

Credit: 3 | Lecture: 0 | Lab: 0

Supervised on-site internship in art or design capacity. Permission of instructor required.

ASTR Astronomy and Space Science

ASTR 1103 Laboratory for Stars and Galaxies

Lecture: 0 | Lab: 1

Laboratory experiments and activities in stellar and galactic astronomy.

ASTR 1104 Laboratory for Solar System

Credit: 1 | Lecture: 0 | Lab: 1

Laboratory experiments and activities in observational and solar system astronomy.

Corequisites: ASTR 1304

ASTR 1303 Stars and Galaxies

Credit: 3 | Lecture: 3

Part of a two semester survey course in astronomy intended for both science and non-science majors. Properties of the sun and stars, stellar spectra, stellar formation, life and death of stars, formation of the elements, black holes, galaxies, expansion of the universe and cosmology. Laboratory experiments and activities in stellar and galactic astronomy. *Corequisites: ASTR 1103*

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ASTR 1304 Solar System

Credit: 3 | Lecture: 3

Part of a two semester survey course in astronomy intended for both science and non-science majors. History of astronomy, Copernican revolution, astronomical observation, physics of planetary motion, comparative study of planet surfaces and atmospheres, moons, asteroids, comets, planetary system formation and exoplanets.

Corequisites: ASTR 1104

ASTR 2377 Life and the Universe

Credit: 3 | Lecture: 3

Origin of the Universe, origin and evolution of life and the possibilities for finding life on other planets, including the search for extraterrestrial intelligence.

ASTR 3311 Modern Astronomy

Credit: 3 | Lecture: 3

Introduction to the history and development of astronomy; telescope optics; laws of planetary motion; planetary structures, atmospheres and surfaces; the sun; elements of astrophysics; stellar structure and evolution; galactic structure and evolution; cosmology. Some telescope observation sessions as "seeing" permits. Not available for graduate credit in Physical Sciences.

ASTR 4311 Universal Origins

Lecture: 0 | Lab: 1

Origin of the universe, the Earth and life.

Prerequisites: CHEM 1311, CHEM 1312 and PHYS 1301,

PHYS 1302 or PHYS 2325 and PHYS 2326.

ASTR 4312 Principles of Astrobiophysics

Credit: 3 | Lecture: 3 | Lab: 0

Overview of the search for life in the universe, including origin and evolution of habitable planets in the solar system and beyond.

Prerequisites: CHEM 1311, CHEM 1312 and PHYS 1301,

PHYS 1302 or PHYS 2325, PHYS 2326

ASTR 4391 Selected Topics in Space Science

Credit: 3 | Lecture: 3

Identified by specific title each time course is

offered.

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BAPA Business and Public Administration

BAPA 1301 Business Principles

Credit: 3 | Lecture: 3

Introduction to the role of business in modern society. Includes overview of business operations, analysis of the specialized fields within the business organization, and the development of a business vocabulary.

BAPA 3321 Logical Analysis

Credit: 3 | Lecture: 3

Development of critical thinking skills based on an investigation of traditional approaches to correct and incorrect reasoning.

BAPA 4195 Co-operative Education in Business Credit: 1 | Lecture: 1

Educational paid work assignment by a student in the field of his or her career interest and course of study. A technical report will be required at the end of the semester. Qualifies as a general or BUS elective.

Prerequisites: Approved Candidate Plan of Study, completed cooperative education file and approval of the Director of Cooperative Education.

BAPA 4366 Entrepreneurship and Small Business Consulting

Credit: 3 | Lecture: 3

Application of classroom concepts, theories and principles from all business disciplines to active operating small businesses or new business ventures. This course will qualify as a management or marketing elective.

Prerequisites: ACCT 3331, FINC 3331, MGMT 3301 and MKTG 3301 or equivalents.

BAPA 4395 Co-operative Education in Business Credit: 3 | Lecture: 3

Educational paid work assignment by a student in the field of his or her career interest and course of study. A technical report will be required at the end of the semester. Qualifies as a general or BUS elective.

Prerequisites: Prerequisite: Approved Candidate Plan of Study, completed cooperative education file and approval of the Director of Cooperative Education.

BIOL Biology

BIOL 1106 Laboratory for Biology for Science Majors I

Credit: 1 | Lecture: 0 | Lab: 1

Laboratory exercises in basic biochemistry, cell biology, cell metabolism and energetics, photosynthesis, genetics, evolution, taxonomy, bacteria and viruses. Credit may not be received for for both BIOL 1106 and BIOL 1108.

Corequisites: BIOL 1306

BIOL 1107 Laboratory for Biology for Science Majors II

Credit: 1 | Lecture: 0 | Lab: 1

Laboratory exercises relating to fungi, protists, plants, plant function, animals, animal physiology and ecology. Credit may not be received for for both BIOL 1107 and BIOL 1109.

Corequisites: BIOL 1307

BIOL 1108 Laboratory for Biology Non-Science Majors I

Credit: 1 | Lecture: 0 | Lab: 1

Laboratory activities will reinforce a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function and reproduction. Credit may not be received for for both BIOL 1106 and BIOL 1108.

Corequisites: BIOL 1308

BIOL 1109 Laboratory for Biology Non-Science Majors II

Credit: 1 | Lecture: 0 | Lab: 1

Laboratory activities will reinforce a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity and physiology. Credit may not be received for for both BIOL 1107 and BIOL 1109.

Corequisites: BIOL 1309

BIOL 1306 Biology for Science Majors I Credit: 3 | Lecture: 3 | Lab: 0

A general biology course including basic biochemistry, cell biology, cell metabolism and energetics, photosynthesis, genetics, evolution, taxonomy, bacteria and viruses. Credit may not be received for for both BIOL 1306 and BIOL 1308.

Corequisites: BIOL 1106

BIOL 1307 Biology for Science Majors II Credit: 3 | Lecture: 3 | Lab: 0

A continuation of Biology for Science Majors I with emphasis on fungi, protists, plants, plant function, animals, animal physiology and ecology. Credit may not be received for for both BIOL 1307 and BIOL 1309.

Corequisites: BIOL 1107

BIOL 1308 Biology for Non-Science Majors I Lecture: 3 | Lab: 0

Provides a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function and reproduction. Credit may not be received for for both BIOL 1306 and BIOL 1308.

Corequisites: BIOL 1108

BIOL 1309 Biology for Non-Science Majors II Credit: 3 | Lecture: 3 | Lab: 0

This course will provide a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity and physiology. Credit may not be received for for both BIOL 1307 and BIOL 1309.

Corequisites: BIOL 1109

BIOL 2101 Laboratory for Anatomy and Physiology I

Lecture: 0 | Lab: 1

Lab study of the structure and function of the integumentary, skeletal, muscular, nervous and endocrine systems. Not for Biology or Fitness & Performance majors; will not count toward any B.S. or B.A. degree specialization in Biology.

Corequisites: BIOL 2301

BIOL 2102 Laboratory for Anatomy and Physiology II

Credit: 1 | Lecture: 0 | Lab: 1

Lab study of the structure and function of the cardiovascular, respiratory, digestive, urinary and reproductive systems. Basic principles of genetics are included. Not for Biology or Fitness & Performance majors; will not count toward any B.S. or B.A. degree specialization in Biology.

Prerequisites: BIOL 2301 and BIOL 2101

Corequisites: BIOL 2302

BIOL 2121 Laboratory for Microbiology for Science Majors

Credit: 1 | Lecture: 0 | Lab: 1

Laboratory exercises using culture of microorganisms grown on selected media. *Prerequisites: BIOL 1306, BIOL 1307, CHEM 1311,*

CHEM 1312

Corequisites: BIOL 2321

BIOL 2301 Anatomy & Physiology I

Credit: 3 | Lecture: 3 | Lab: 0

Study of the structure and function of the integumentary, skeletal, muscular, nervous and endocrine systems. Not for Biology or Fitness & Performance majors; will not count toward any B.S. or B.A. degree specialization in Biology.

Corequisites: BIOL 2101

BIOL 2302 Anatomy & Physiology II

Credit: 3 | Lecture: 3 | Lab: 0

Lab study of the structure and function of the cardiovascular, respiratory, digestive, urinary and reproductive systems. Basic principles of genetics are included. Not for Biology or Fitness & Performance majors; will not count toward any B.S. or B.A. degree specialization in Biology.

Prerequisites: BIOL 2301 and BIOL 2101

Corequisites: BIOL 2102

BIOL 2321 Microbiology for Science Majors

Credit: 3 | Lecture: 3 | Lab: 0

Study of the morphology, physiology and taxonomy of representative groups of pathogenic and non-pathogenic microorganisms.

and non-pathogenic inicroorganisms.

Prerequisites: BIOL 1306, BIOL 1307, CHEM 1311,

CHEM 1312

Corequisites: BIOL 2121

BIOL 2428 Vertebrate Zoology

Credit: 4 | Lecture: 4

Lecture and laboratory exercises on the structure, development, physiology and natural history of the vertebrate animals with emphasis

on comparative evolution.

Prerequisites: BIOL 1306, BIOL 1307

BIOL 3113 Laboratory for Plant Anatomy

Credit: 1 | Lecture: 0 | Lab: 1

Examination of plant structure and function by comparing differences in the major tissue types in each plant organ (leaf, root, stem and reproductive). Students will prepare tissue mounts of both nutrient sufficient and deficient plants to examine structural changes in the different tissues.

Corequisites: BIOL 3313

BIOL 3141 Laboratory for Molecular Genetics

Credit: 1Lab: 1

Laboratory investigations using molecular genetics to demonstrate principles of transmission and population genetics.

Prerequisites: BIOL 1306 and 1307

Corequisites: BIOL 3341

BIOL 3173 Laboratory for Human Anatomy

Credit: 1 | Lecture: 0 | Lab: 1

The structure of the human body will be studied using anatomical models, preserved tissue specimens and computer programs.

Prerequisites: BIOL 1306 and BIOL 1307

Corequisites: BIOL 3373

BIOL 3306 Development of the Sciences

Credit: 3 | Lecture: 3 | Lab: 0

Concepts, techniques, practices and philosophy of science, illustrated with historical and contemporary examples. Biology majors may use only as an unrestricted elective.

BIOL 3307 Cell Biology

Credit: 3 | Lecture: 3

Study of cell structure and function, including chemical components of cells, membrane transport, cell signaling, flow of genetic information, cell growth, and cell division. Experimental techniques used in understanding cell biology will be discussed along with the cellular basis of human diseases.

Prerequisites: BIOL 1306, BIOL 1307, CHEM 1311,

CHEM 1312

BIOL 3311 Marine Biology

Credit: 3 | Lecture: 3

Study of marine organisms and their environment. One or more weekend or weekday field trips and limited laboratory exercises are required.

Prerequisites: BIOL 1306, BIOL 1307

BIOL 3313 Plant Anatomy

Credit: 3 | Lecture: 3

Structures, tissues and cells of vegetative and reproductive organs of land plants related to concepts of growth, differentiation and organization function and evolutionary history.

Prerequisites: BIOL 1306, BIOL 1307

Corequisites: BIOL 3113

BIOL 3316 Introduction to Herpetology

Credit: 3 | Lecture: 3

This course is designed to give the student a basic understanding of the science of Herpetology including an overview of the characteristics of reptiles and amphibians; with special emphasis on snakes. Classes will include training on collection, handling and identification of local species with some off campus field trips to local areas and zoos.

Prerequisites: BIOL 1306, BIOL 1307

BIOL 3333 Environmental Biology

Credit: 3 | Lecture: 3

The impacts of pollution, anthropogenic activities and other stresses on ecosystem structure and function. Course designed for science majors.

BIOL 3334 Pathogenic and Public Health Microbiology

Credit: 3 | Lecture: 3

Focuses on the causality of infectious diseases, modes of dissemination, laboratory diagnosis

and prevention and control.

Prerequisites: BIOL 1306, BIOL 1307

BIOL 3335 Epidemiology

Credit: 3 | Lecture: 3

A study of the causes and clinical methods of controlling disease in large populations.

Prerequisites: BIOL 1306, BIOL 1307

BIOL 3336 Neuropsychology Practicum

Lecture: 3

Laboratory investigation of brain/behavior relationships in the rat. Readings from primary research literature, lab experiments and research reports.

Prerequisites: Permission of instructor (HSH) and BIOL faculty adviser.

BIOL 3341 Molecular Genetics

Credit: 3 | Lecture: 3

Study of the molecular basis of genetics, including transmission genetics and population genetics. BIOL 3141 must be taken concurrently

or following BIOL 3341.

Prerequisites: BIOL 1306, BIOL 1307

Corequisites: BIOL 3141

BIOL 3373 Human Anatomy

Credit: 3 | Lecture: 3

Fundamentals of human anatomy emphasizing an organ systems approach to the study of the human body. Lecture and demonstration.

Prerequisites: BIOL 1306 and BIOL 1307

Corequisites: BIOL 3173

BIOL 4113 Laboratory for Biology of Fishes

Credit: 1 | Lecture: 0 | Lab: 1

Laboratory course on identification, anatomy, morphology and ecology of fish. Weekend or weekday field trips and collections required.

Corequisites: BIOL 4313

BIOL 4114 Laboratory for Freshwater Biology

Credit: 1 | Lecture: 0 | Lab: 1

Laboratory study of freshwater organisms and multiple weekends and/or weekday field trips to study sites off campus.

Corequisites: BIOL 4314

BIOL 4189 Independent Study in Biology

Credit: 1 | Lecture: 0 | Lab: 1

Prerequisites: Approval of instructor, chair and

associate dean.

BIOL 4191 Laboratory Topics in Biology

Credit: 1

Identified by specific title each time laboratory is

offered

BIOL 4195 Cooperative Education Work Term Credit: 1

Educational paid work assignment by a student in the field of career interest and course of study. A technical report is required at the end of the semester. (Specific requirements are noted in the Cooperative Education catalog description.)

Prerequisites: Approved Candidate Plan of Study, completed cooperative education file and approval of associate dean and Director of Cooperative Education.

BIOL 4211 Laboratory for Ecology

Credit: 2 | Lecture: 0 | Lab: 4

Four laboratory hours per week. Conduct experiments on population growth, competition and predation to test theoretical models;

construct life tables.

Prerequisites: BIOL 4311

BIOL 4225 Environmental Toxicology Laboratory

Credit: 2 | Lecture: 0 | Lab: 4

Theory and practice in aquatic toxicity testing

using EPA standard methods.

Prerequisites: BIOL 4325.

BIOL 4241 Laboratory for Physiology

Credit: 2 | Lecture: 2

Laboratory exercises demonstrating

physiological processes.

Prerequisites: BIOL 4344 or BIOL 4345.

BIOL 4242 Laboratory for Biochemistry

Credit: 2 | Lecture: 0 | Lab: 4

Laboratory exercises in Biochemistry.

Prerequisites: BIOL 4341.

BIOL 4252 Molecular Biology Laboratory

Credit: 2 | Lecture: 2

Laboratory methods and techniques in molecular

biology.

Prerequisites: BIOL 3341.

BIOL 4253 Laboratory for Biotechnology

Credit: 2 | Lecture: 2

Current methods used in biotechnological industry and research as applied to medical, biological, agricultural and environmental aspects. Students will learn modern techniques used in genetic engineering, DNA sequencing, gene cloning, etc.

Prerequisites: BIOL 3341

BIOL 4254 Laboratory for Eukaryotic Gene Expression

Credit: 2 | Lecture: 2

Practical training in current gene expression studies, including isolation, quantification and handling of RNA, cDNA synthesis, RT-PCR and quantitative PCR. Microarrays and RNAi techniques are also discussed.

Prerequisites: BIOL 3341.

BIOL 4278 Seminar in Biology

Credit: 2 | Lecture: 02

Study of objectives, methods and culture of biological science. Literature surveys, presentations and research papers are required. Students should be in their last 12 hours of coursework.

BIOL 4289 Independent Study in Biology

Credit: 2 | Lecture: 0 | Lab: 2

Prerequisites: Approval of instructor, chair and

associate dean.

BIOL 4291 Laboratory Topics in Biology

Credit: 2 | Lecture: 0 | Lab: 2

Identified by specific title each time laboratory is

offered.

BIOL 4305 Ecology of the Amazon

Credit: 3 | Lecture: 3

Study of the physical, chemical and ecological aspects of the Amazon flooded forest. Students completing course qualify for discounted optional ecology study trip to the Amazon flooded forest areas of Brazil.

BIOL 4311 Ecology

Credit: 3 | Lecture: 3

Theoretical study of organisms, populations and communities related to their environments.

Prerequisites: BIOL 1306, BIOL 1307

BIOL 4313 Biology of Fishes

Credit: 3 | Lecture: 3

Systematic study of freshwater and marine fishes, including evolution, ecology, life history

and economics of important species. *Prerequisites: BIOL 1306, BIOL 1307*

Corequisites: BIOL 4113

BIOL 4314 Freshwater Biology

Credit: 3 | Lecture: 3

Study of the physical, chemical and biology nature of freshwater lakes, ponds, rivers and

streams.

Prerequisites: BIOL 4311 Corequisites: BIOL 4114

BIOL 4315 Biology Practicum

Credit: 3 | Lecture: 3

Practical experience at an off-campus facility, such as a laboratory, aquarium, park, wetlands center or Galveston Bay non-profit. Requires junior or senior standing, pre-acceptance interview, minimum of 10 hours of work per week and approval of instructor.

BIOL 4323 Field Biology

Credit: 3 | Lecture: 3

Field methods for analysis of ecological systems.

Field work and laboratory are required.

Prerequisites: BIOL 1306, BIOL 1307

BIOL 4325 Environmental Toxicology

Credit: 3

Physiological and systemic interactions of environmental pollutants with plants and animals.

Prerequisites: BIOL 1306, BIOL 1307 and CHEM 2323

BIOL 4327 Plant Identification

Credit: 3

Taxonomic study of herbaceous and woody

plants of SE Texas.

Prerequisites: BIOL 1306 and BIOL 1307

BIOL 4332 Histology

Credit: 3 | Lecture: 3

Study of microscopic structure of animal and human tissues, including theories of fixation and

staining of clinical samples.

Prerequisites: BIOL 3373

BIOL 4334 Environmental Microbiology

Credit: 3 | Lecture: 3

Study of activity and mechanisms of microbial contribution to global ecosystems, with emphasis on geochemical cycling, bioremediation, wastewater treatment, metagenomics and laboratory investigations.

Prerequisites: BIOL 2321.

BIOL 4335 Forensic Biology

Credit: 3

Theory and techniques used in biological investigations of crimes, including toxicological, genetic and DNA analysis.

Prerequisites: BIOL 3341, BIOL 4341

BIOL 4341 Biochemistry I

Credit: 3

Study of cellular biochemical components and

metabolism.

Prerequisites: BIOL 1306, BIOL 1307 and CHEM 2323

BIOL 4342 Biochemistry II

Credit: 3

Regulation and control of intermediary metabolism. Introduction to biochemical genetics.

Prerequisites: BIOL 4341.

BIOL 4343 Plant Physiology

Credit: 3

Metabolic and physiological processes involved

in plant growth.

Prerequisites: BIOL 1306, BIOL 1307.

BIOL 4344 Comparative Animal Physiology Credit: 3 | Lecture: 3

Survey of bodily functions in both vertebrates and invertebrates. Emphasis will be on the use of the comparative approach in understanding how animals physiologically respond to and adapt to environmental challenges.

Prerequisites: BIOL 1306, BIOL 1307.

BIOL 4345 Human Physiology

Credit: 3

This course will introduce basic and advanced principles of human physiology. The study of physiology will be presented using an integrated systems approach. Lectures on topics ranging from physiology of the nervous system to human reproduction will be presented.

Prerequisites: BIOL 1306, BIOL 1307.

BIOL 4346 Pathophysiology

Credit: 3

This course will study the abnormal physiology characteristic of diseases in humans. A physiological systems approach will be taken.

Prerequisites: BIOL 4345.

BIOL 4347 Cellular Physiology

Credit: 3 | Lecture: 3

Cell structure and function; emphasis on cytological, biochemical, genetical and developmental perspectives.

Prerequisites: BIOL 4341

BIOL 4348 Developmental Biology

Credit: 3

Embryology, tissue differentiation, cell determination and pattern formation at both descriptive and molecular level. Emphasis on animal systems with additional examples from plants and protists.

Prerequisites: BIOL 3341 and either BIOL 4347 or BIOL 3307

BIOL 4349 Plant Development

Credit: 3 | Lecture: 3

Study of the developmental processes involved in seed germination, tissue differentiation, vegetative growth and transitioning to reproduction.

Prerequisites: BIOL 1306, BIOL 1307

BIOL 4351 Molecular Biology

Credit: 3 | Lecture: 3

Study of how the cell functions at the molecular level, structures of the genome in prokayotes and eukaryotes, and basic elements involved in the regulation of gene expression.

Prerequisites: BIOL 3341 or BIOL 4341

BIOL 4354 Introduction to Bioinformatics

Credit: 3 | Lecture: 3

Experimental sources of biological data, databases and internet tools.

Prerequisites: BIOL 3341

BIOL 4355 Tissue Culture

Credit: 3 | Lecture: 3

Students will learn how to manipulate cells in culture and develop laboratory skills in DNA transfection, gene expression, Lucifercase assays

and western blots.

Prerequisites: BIOL 3341

BIOL 4361 Immunology

Credit: 3 | Lecture: 3

Basic theory of humoral and cellular immune mechanisms, structure and function of antibodies, cellular and physiological consequences of immunological responses. Prerequisites: BIOL 2321 and either BIOL 3341 or

BIOL 4341

BIOL 4371 Cancer Biology

Credit: 3

Cancer, genetics and heredity: prevention,

detection and treatment of cancer.

Prerequisites: BIOL 3341 or BIOL 4351 or equivalent

BIOL 4389 Independent Study in Biology

Credit: 3

Prerequisites: Approval of instructor, chair and

associate dean.

BIOL 4391 Selected Topics in the Biological Sciences

Credit: 3

Identified by specific title each time course is

offered.

BSCI Behavioral Sciences

BSCI 4389 Independent Study in Behavioral

Sciences Credit: 3 | Lecture: 0 | Lab: 0

Permission of instructor required.

BSCI 4391 Selected Topics in Behavioral Sciences

Credit: 3 | Lecture: 3 | Lab: 1

Identified by specific title each time course is offered. Topics vary; may be repeated for credit

with permission of instructor.

BSCI 4399 Capstone in Behavioral Sciences

Credit: 3 | Lecture: 0 | Lab: 0

Capstone experience for the Behavioral Sciences

degree.

CENG Computer Engineering

CENG 3112 Laboratory for Digital Circuits

Credit: 1

Laboratory experiments using digital logic and

small scale integrated circuits.

Corequisites: CENG 3312

CENG 3113 Laboratory for Linear Circuits

Credit: 1Lab: 3

Laboratory experiments demonstrating AC/DC circuits. Experiments using lumped constants and integrated circuits will be stressed.

Corequisites: CENG 3313

CENG 3114 Laboratory for Advanced Linear

Circuits

Credit: 1 | Lecture: 0 | Lab: 3

Experiments emphasizing the design and analysis of linear lumped-constant circuits.

Corequisites: CENG 3314

CENG 3115 Laboratory for Introduction Digital

Signal Processing

Credit: 1 | Lecture: 0 | Lab: 3

Laboratory experiments in Digital Signal

Processing.

Corequisites: CENG 3315

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CENG 3116 Laboratory for Electronics Credit: 1Lab: 1

The course consists of experimental laboratory projects that explore the design, construction, and debugging of basic electronic circuits. Projects involve EDA-tool based simulation and hands-on experiments, investigate the performance characteristics of diodes, transistors, JFETs, and op-amps including the construction of differential amplifier, summing amplifier, full wave rectifier, and common emitter amplifier.

Corequisites: CENG 3316

CENG 3131 Laboratory for Telecommunications and Networks

Credit: 1 | Lecture: 0 | Lab: 3

Laboratory experiments in digital and data

communications.

Corequisites: CENF 3331

CENG 3151 Laboratory for Computer Architecture

Credit: 1 | Lecture: 0 | Lab: 3

Laboratory experiments for Computer Architecture Design and Interfacing.

Prerequisites: CENG 3312, CENG 3112

Corequisites: CENG 3351

CENG 3264 Engineering Design and Project Management

Lecture: 0 | Lab: 1

Introduction to engineering concepts including problem solving, the design process, engineering tools and topics in ethics. Laboratory instruction.

CENG 3312 Digital Circuits

Credit: 3 | Lecture: 3

Applications of point set theory and Boolean Algebra to the analysis and design of asynchronous and synchronous digital circuits. Prerequisites: MATH 2414, PHYS 2326, PHYS 2126

Corequisites: CENG 3112

CENG 3313 Linear Circuits

Credit: 3 | Lecture: 3

Basic electrical concepts; network theorems; circuit laws; resistance, capacitance, inductance, operational amplifiers, response of RC, RL and RLC circuits to initial conditions and constant forcing functions. Steady-state and transient analysis. Introduction to S-domain circuit analysis. Integration of computer applications using SPICE and MATLAB.

Prerequisites: MATH 2414, PHYS 2326, PHYS 2126

Corequisites: CENG 3113

CENG 3314 Advanced Linear Circuits

Credit: 3 | Lecture: 3

Polyphase AC circuit analysis and design, network and passive and active analog filter design using MATLAB and SPICE, time and frequency domain analysis utilizing Fourier series and Fourier analysis techniques.

Prerequisites: CENG 3113, CENG 3313

Corequisites: CENG 3114

CENG 3315 Introduction to Digital Signal Processing

Credit: 3 | Lecture: 3

Sinusoids, spectrum representation, sampling and aliasing, FIR and IIR digital filters.

Laboratory instruction.

Prerequisites: CSCI 1320, MATH 2413, MATH 2414

Corequisites: CENG 3115

CENG 3316 Electronics

Credit: 3 | Lecture: 3

The course is a study of the physical behavior of electronic devices. Emphasis is on analysis and application of electronic circuits utilizing semiconductor diodes, operational amplifiers, BJT and FET transistors. EDA tools are used to reinforce the theory through electronic analysis simulations.

Prerequisites: CENG 3313 Corequisites: CENG 3116

CENG 3331 Introduction to Telecommunications and Networks

Credit: 3 | Lecture: 3

Introduction to data communications, error detecting/correcting codes, multiplexing, circuit and packet switching and local area networks.

Prerequisites: CENG 3312 Corequisites: CENG 3131

CENG 3351 Computer Architecture

Credit: 3 | Lecture: 3

Control logic, addressing, registers, instructions, memory units, arithmetic elements, interrupts

and input-output structures.

Prerequisites: CENG 3371 or CSCI 3331. Corequisites: CENG 3151

CENG 3371 Microcontroller Programming

Credit: 3 | Lecture: 3

Microcontroller, assembly language programming and embedded system applications.

Prerequisites: CSCI 1320 or equivalent.

CENG 4113 Laboratory for Microprocessor Interfacing

Credit: 1

Laboratory experiments interfacing the Intel microcomputer to peripherals, memory, and other devices.

Corequisites: 4313

CENG 4179 Internship in Computer Engineering Credit: 1 | Lecture: 1

Supervised work experience in an approved industrial firm or government agency. Written and oral report required.

Prerequisites: 15 hours of upper-level credit; approval by adviser and associate dean.

CENG 4189 Independent Study in Computer Engineering

Credit: 1

Prerequisites: Approval of instructor, chair and associate dean.

CENG 4195 Cooperative Education Work Term Credit: 1

Educational paid work assignment by a student in the field of career interest and course of study. A technical report will be required at the end of the semester. (Specific requirements are noted in the Cooperative Education Catalog description.) Prerequisites: Approved Candidate Plan of Study, completed cooperative education file and approval of associate dean and Director of Cooperative Education.

CENG 4265 Senior Project

Credit: 2 | Lecture: 2

Project course requiring each student to complete a project approved by the instructor. The student must submit a written final report and give an oral presentation to faculty and

students. Laboratory instruction.

Prerequisites: CENG 3264 and CENG 4313 or CENG

4354.

CENG 4266 Senior Project

Credit: 2 | Lecture: 2

Project course requiring each student to complete a project approved by the instructor. The student must submit a written final report and give an oral presentation to faculty and students. Laboratory instruction.

Prerequisites: CENG 3264 and CENG 4313 or CENG

4354

CENG 4279 Internship in Computer Engineering Credit: 2 | Lecture: 2

Supervised work experience in an approved industrial firm or government agency. Written and oral report required. Prerequisite: 15 hours of upper-level credit; approval by adviser and associate dean.

Prerequisites: Prerequisite: 15 hours of upper-level credit; approval by adviser and associate dean.

CENG 4289 Independent Study in Computer Engineering

Credit: 2

Prerequisites: Approval of instructor, chair and associate dean.

CENG 4313 Microprocessor Interfacing

Credit: 3 | Lecture: 3

Techniques for interfacing microcomputers to

peripherals, memory and other devices.

Prerequisites: CENG 3351, CENG 3371

Corequisites: CENG 4113

CENG 4315 Digital Signal Processing **Applications**

Credit: 3 | Lecture: 3

Fundamental concepts in Digital Signal Processing applications with algorithmic implementations using Texas Instruments, DSPs and XILINX Field Programmable Gate Arrays.

Prerequisites: CENG 3115, CENG 3315

CENG 4331 Analysis and Design of Linear **Systems**

Credit: 3 | Lecture: 3 | Lab: 0

Continuous and discrete time systems. Fourier, Laplace and z-transforms and transfer functions. Introduction to digital signal processing and digital filter design using conventional and convolutional techniques, applications from communications and control theory. Computer solutions using MATLAB.

Prerequisites: CENG 3313 and CENG 3316

CENG 4351 Introduction to Robotics

Credit: 3 | Lecture: 3

The course introduces the use of various robotic systems and the techniques necessary to design and develop hardware components and software applications using robotic operating systems.

CENG 4354 Digital System Design

Credit: 3 | Lecture: 3

Combinational and sequential circuit design of digital systems using a hardware description

language. Laboratory instruction. Prerequisites: CENG 3312 or equivalent.

CENG 4362 Digital Control Design

Credit: 3 | Lecture: 3

Analysis and design of digital control systems

with applications critical systems.

Prerequisites: CENG 4331

CENG 4379 Internship in Computer Engineering

Credit: 3 | Lecture: 3

Supervised work experience in an approved industrial firm or government agency. Written and oral report required.

Prerequisites: Prerequisite: 15 hours of upper-level credit; approval by adviser and associate dean.

CENG 4389 Independent Study in Computer Engineering

Credit: 3 | Lecture: 3

Prerequisites: Approval of instructor, chair and

associate dean.

CENG 4391 Selected Topics in Computer Engineering

Credit: 3 | Lecture: 3

Identified by specific title each time course is

offered.

CHEM Chemistry

CHEM 1105 Laboratory for Introductory Chemistry I

Lecture: 0 | Lab: 1

Laboratory for introductory chemistry that may include topics in inorganic, organic, biochemistry, food/physiological chemistry, forensic and environmental/consumer chemistry. Credit may not be received for both CHEM 1105 and CHEM 1111.

Corequisites: CHEM 1305

CHEM 1111 Laboratory for General Chemistry I

Credit: 1 | Lecture: 0 | Lab: 1

Basic laboratory experiments supporting theoretical principles presented in CHEM 1311; introduction of the scientific method, experimental design, data collection and analysis and preparation of laboratory reports. Credit may not be received for both CHEM 1105 and CHEM 1111.

Corequisites: CHEM 1311

CHEM 1112 Laboratory for General Chemistry II

Credit: 1 | Lecture: 0 | Lab: 1

Basic laboratory experiments supporting theoretical principles presented in CHEM 1312; introduction of the scientific method, experimental design, chemical instrumentation, data collection and analysis and preparation of laboratory reports.

Corequisites: CHEM 1312

CHEM 1275 Survey of Forensic Chemistry

Credit: 2 | Lecture: 0 | Lab: 2

This course will survey current methods in Forensic Science (especially chemistry) by examining real cases.

CHEM 1305 Introductory Chemistry I

Credit: 3 | Lecture: 3

A survey course introducing chemistry, including topics in inorganic, organic, biochemistry, food/physiological chemistry, forensic and environmental/ consumer chemistry. Designed for non-science majors. Credit may not be received for both CHEM 1305 and CHEM 1311. Corequisites: CHEM1105

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CHEM 1311 General Chemistry I

Lecture: 0 | Lab: 1

Fundamental principles of Chemistry for majors in sciences, health sciences and engineering; topics include inorganic, organic, biochemistry, chemical reactions, states of matter and properties, chemical bonding, structure and descriptive chemistry. Credit may not be received for both CHEM 1305 and CHEM 1311.

Corequisites: CHEM 1111

CHEM 1312 General Chemistry II

Credit: 3 | Lecture: 3

Chemical equilibrium; phase diagrams and spectrometry; acid-base concepts; thermodynamics; kinetics; electrochemistry; nuclear chemistry; an introduction to organic chemistry and descriptive inorganic chemistry.

Prerequisites: CHEM 1311 Corequisites: CHEM 1112

CHEM 1372 Diet and Nutrition Chemistry Credit: 3 | Lecture: 3

This is a survey course designed for non-science and allied health students. It includes the effects of nutrients on health and the role of diet in prevention or treatment of chronic diseases.

CHEM 2101 Laboratory for Analytical Chemistry I

Credit: 1 | Lecture: 0 | Lab: 1

This course provides hands-on training on analysis, sampling, statistical treatment and

basic skills in analytical chemistry.

Prerequisites: CHEM 1311, CHEM 1312

Corequisites: CHEM 2301

CHEM 2102 Laboratory for Analytical Chemistry

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Credit: 1 | Lecture: 0 | Lab: 1

This course provides hands-on experience in modern instrumental techniques in analytical chemistry. Includes UV-vis absorption, IR vibrational spectroscopy, gas chromatography (GC), high performance liquid chromatography (HPLC) and NMR etc.

Prerequisites: CHEM 1311, CHEM 1312

Corequisites: CHEM 2302

CHEM 2123 Laboratory for Organic Chemistry I

Lecture: 0 | Lab: 1

Basic techniques and procedures in isolation, purification and characterization of organic compounds and simple reactions used in the organic chemistry lab.

Prerequisites: CHEM 1311, CHEM 1312

Corequisites: CHEM 2323

CHEM 2125 Laboratory for Organic Chemistry II

Credit: 1 | Lecture: 0 | Lab: 1

Extension of CHEM 2123; building from basic procedures and lab techniques to a more advanced level.

Prerequisites: CHEM 1311, CHEM 2123

Corequisites: CHEM 2325

CHEM 2301 Analytical Chemistry I

Credit: 3 | Lecture: 3

An introduction to the theory of analytical chemistry; different approaches to analysis, sampling, statistical treatment and basic principles in analytical chemistry.

Prerequisites: CHEM 1311, CHEM 1312

Corequisites: CHEM 2101

CHEM 2302 Analytical Chemistry II

Credit: 3 | Lecture: 3

An introduction to instrumental techniques, providing an introductory survey of modern instrumental techniques in analytical chemistry. Includes electrochemical, spectroscopic and chromatographic methods for the determination of atomic and molecular species. Specific topics in spectroscopy to be considered are UV-vis absorption, IR vibrational spectroscopy. Topics in chromatography include gas chromatography (GC), high performance liquid chromatography (HPLC).

Prerequisites: CHEM 1311, CHEM 1312

Corequisites: CHEM 2101

CHEM 2323 Organic Chemistry I

Credit: 3 | Lecture: 3

Study of properties and behavior of hydrocarbon compounds and their derivatives. Designed for students in science or pre-professional programs.

Prerequisites: CHEM 1311, CHEM 1312

Corequisites: CHEM 2123

CHEM 2325 Organic Chemistry II

Credit: 3 | Lecture: 3

Continuation of properties and behavior of hydrocarbon compounds and their derivatives. Designed for students in science or preprofessional programs.

Prerequisites: CHEM 1311, CHEM 2323

Corequisites: CHEM 2125

CHEM 2377 Life and the Universe

Credit: 3 | Lecture: 3

Origin of the Universe, origin and evolution of life and the possibilities for finding life on other planets, including the search for extraterrestrial intelligence.

CHEM 3310 Advanced Chemical Calculations

Credit: 3 | Lecture: 3 | Lab: 0

Prepares chemistry and biology students for math in Physical Chemistry and Biochemistry, using examples geared to these subjects.

Prerequisites: CHEM 1311 & CHEM 1312, MATH 2413 & MATH 2414, PHYS 2325 or PHYS 1301 & PHYS 1302.

CHEM 3320 Survey of Physical Chemistry

Credit: 3 | Lecture: 3

Appropriate for students pursuing the BA in Chemistry or a BS in Environmental Science. An overview of physical chemistry, thermodynamics, molecular structure, spectroscopy.

Prerequisites: CHEM 1311, CHEM 1312 and MATH 2413 and PHYS 1301, PHYS 1302.

CHEM 3333 Environmental Chemistry

Credit: 3 | Lecture: 3

Chemical processes and reactions related to chemical pollution problems and their control in the atmosphere, soils and waters.

Prerequisites: CHEM 1311, CHEM 1312 or equivalent.

CHEM 4189 Independent Study in Chemistry

Credit: 1 | Lecture: 1

Prerequisites: Approval of instructor, chair and associate dean.

CHEM 4195 Cooperative Education Work Term Credit: 1

Educational paid work assignment by a student in the field of career interest and course of study. A technical report is required at the end of the semester. (Specific requirements are noted in the Cooperative Education catalog description.) Prerequisites: Approved Candidate Plan of Study, completed cooperative education file and approval of associate dean and Director of Cooperative Education.

CHEM 4222 Laboratory for Physical Chemistry Credit: 2 | Lecture: 0 | Lab: 6

Laboratory principles and practice in physical chemistry. Six laboratory hours each week.
CHEM 4321 may be taken concurrently.
Prerequisites: CHEM 4321

CHEM 4235 Advanced Lab for Inorganic Chemistry

Credit: 2 | Lecture: 0 | Lab: 2

Laboratory principles and basic manipulation skills used during the preparation and characterization of inorganic compounds.

Prerequisites: CHEM 1311, CHEM 1312 and CHEM

2323

CHEM 4242 Laboratory for Biochemistry Credit: 2 | Lecture: 1 | Lab: 3

I aboratory principles and pr

Laboratory principles and practices in cellular biochemistry. One hour of lecture and 3 hours of laboratory per week.

Prerequisites: CHEM 4341 or corequisite

CHEM 4251 Laboratory for Environmental Analysis

Credit: 2 | Lecture: 1 | Lab: 3

Experimental methods for sampling and analysis of environmental samples using modern instruments. Hands-on laboratory and field experiments. One hour of lecture and 3 hours of laboratory per week.

Prerequisites: CHEM 3333 or corequisite

CHEM 4310 Advanced Chemical Calculations Credit: 3 | Lecture: 3

Prepares chemistry and biology students for math in Physical Chemistry and Biochemistry, using examples geared to these subjects.

Prerequisites: CHEM 1311, CHEM 1312, MATH 2413, MATH 2414 or PHYS 2325, PHYS 2326.

CHEM 4311 Chemical Origins

Credit: 3 | Lecture: 3

Origin of the universe and the chemical elements, pre-biotic chemistry and the origin of life.

Prerequisites: CHEM 1311, CHEM 1312 and PHYS 1301, PHYS 1302 or PHYS 2325 and PHYS 2326.

CHEM 4312 Principles of Astrobiochemistry Credit: 3 | Lecture: 3

Overview of the search for life in the universe, including chemical signatures of life on other planets.

Prerequisites: CHEM 1311, CHEM 1312 and PHYS 1301, PHYS 1302 or PHYS 2325, PHYS 2326.

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CHEM 4315 Handedness in Science

Credit: 3 | Lecture: 3

Suitable for chemists, physicist and biologist (especially pre-med). Handedness (chirality) in chemistry, biology, pharmaceuticals and medicine. Origin of chirality: Is it a feature of fundamental physics? Use of chirality to detect

life on other planets.

Prerequisites: CHEM 1311, CHEM 1312 and PHYS 1301,

PHYS 1302 or PHYS 2325, PHYS 2326

CHEM 4321 Physical Chemistry I

Credit: 3 | Lecture: 3

Physical Chemistry (PC) I is not a prerequisite for Physical Chemistry II. PCI covers thermodynamics and kinetics. PCII covers quantum mechanics and spectroscopy. CHEM 4321 and CHEM 4322 may be taken in any order Prerequisites: CHEM 1311, CHEM 1312, MATH 2413, MATH 2414, PHYS 2325 and PHYS 2326 and CHEM 4310.

CHEM 4322 Physical Chemistry II

Credit: 3 | Lecture: 3

Physical Chemistry (PC) I is not a prerequisite for Physical Chemistry II. PCI covers thermodynamics and kinetics. PCII covers quantum mechanics and spectroscopy. CHEM 4321 and CHEM 4322 may be taken in any order. Prerequisites: CHEM 1311, CHEM 1312, MATH 2413, MATH 2414 and PHYS 2325, PHYS 2326 and CHEM 4310.

CHEM 4328 Introduction to Medicinal Chemistry

Credit: 3 | Lecture: 3

Overview of key biological and biochemical concepts and the general tactics and strategies involved in developing an effective drug. Prerequisites: CHEM 2323, CHEM 2325

CHEM 4335 Inorganic Chemistry

Credit: 3 | Lecture: 3

Concepts and systems of inorganic chemistry; atomic structure, molecular structure and bonding, ionic crystals, solid state defects and coordination compounds.

Prerequisites: CHEM 1311, CHEM 1312 and CHEM 2323

CHEM 4341 Biochemistry I

Credit: 3 | Lecture: 3

Study of cellular biochemical components and metabolism.

Prerequisites: CHEM 2323, CHEM 4310 strongly recommended.

CHEM 4342 Biochemistry II

Credit: 3 | Lecture: 3

Regulation and control of intermediary metabolism. Introduction to biochemical genetics.

Prerequisites: CHEM 4341.

CHEM 4352 Water Chemistry and Water Pollution

Credit: 3 | Lecture: 3

Study of chemical equilibria in natural waters, water quality parameters, water sampling, important water pollutants and their fate. Prerequisites: CHEM 1311, CHEM 1312 and CHEM 2323.

CHEM 4355 Environmental Sampling and Monitoring

Credit: 3 | Lecture: 3

Principles and techniques of environmental sampling for air, water, soil and hazardous wastes. EPA standard methods for environmental analysis using biological, chemical and instrumental techniques.

Prerequisites: STAT 3308.

CHEM 4356 Soil & Groundwater Remediation Credit: 3 | Lecture: 3

Chemical, biological, geological principles and applications of various remediation techniques commonly used to clean up contaminated soils and groundwater.

Prerequisites: CHEM 3333.

CHEM 4357 Introduction to Biofuel

Credit: 3 | Lecture: 3

This course is an overview of biofuel production with fundamental concepts in biofuel production, renewable feedstocks, thermochemical and biochemical conversions of biomass to biofuel, environmental impacts, economics and life-cycle analysis; value-added processing of biofuel residues and selected case studies.

Prerequisites: CHEM 2323 and CHEM 2325

CHEM 4358 Industrial Chemistry: Process and Environment

Credit: 3 | Lecture: 3

This course will survey a variety of industrially-important processes which are based on naturally occurring or petroleum derived organic materials. As an additional component of the course, the relevance and impact of various regulations of the Environmental Protection Agency will be explored.

Prerequisites: CHEM 2323 and CHEM 2325

CHEM 4359 Drug Design and Synthesis Credit: 3 | Lecture: 3

This course presents the strategy underpinning the design and synthesis of pharmaceutical molecules used to diagnose and treat diseases and illnesses. It focuses on the design of drug molecules, with emphasis on the shape and structure. The course explores the array of chemical reactions and strategies for the synthesis of a range of drugs. Case studies are also included.

Prerequisites: CHEM 2323 and CHEM 2325

CHEM 4360 Bio-organic and Medicinal Chemistry

Credit: 3 | Lecture: 3

Survey of the fields of biological chemistry in which organic chemistry plays a significant role. Topics such as enzymatic and enzyme-like catalysis, protein/enzyme structure-function relationships, enzyme cofactor chemistry and biochemistry, nucleic acid chemistry and biochemistry, bioconjugates, bioprobes and molecular recognition will be discussed.

Prerequisites: CHEM 2323, CHEM 2325

CHEM 4363 Forensic Chemistry

Credit: 3 | Lecture: 3

Provides students training in drug chemistry, chemistry of addiction, arson investigation, chemistry of explosives, poisons, estimating the time of death.

Prerequisites: CHEM 1311, CHEM 1312 or equivalent.

CHEM 4365 Introduction to Polymer Chemistry

Credit: 3 | Lecture: 3

Introduction to chemistry, structure and properties of polymers.

Prerequisites: CHEM 1311 and CHEM 1312

CHEM 4367 Instrumental Analysis

Credit: 3 | Lecture: 3

Principles and practices of modern analytical instrumentations. Emphasis on hands-on experience in chemical analysis using UV-VIS, IC, ICP, GC, GC-MS, LC-MS, HPLC and NMR. Lecture, laboratory instruction and supervised project on unknown chemicals.

Prerequisites: CHEM 2323 and CHEM 2325

CHEM 4368 Advanced Organic Chemistry Credit: 3 | Lecture: 3

Advanced mechanistic study of the relationship between structure and reactivity in organic chemistry.

Prerequisites: CHEM 2323, CHEM 23250r equivalent.

CHEM 4370 Industrial Chemistry: Process and Environment

Credit: 3 | Lecture: 3

Survey of industrially-important processes which are based on naturally-occurring or petroleum-derived organic materials. A component of the course involves Environmental Protection, such as the Clean Air and the Toxic Substances Control.

Prerequisites: CHEM 2323, CHEM 2325

CHEM 4371 Advanced Spectroscopic Analysis

Credit: 3 | Lecture: 3

Designed for students seeking advanced analytical studies through practical spectra analysis.

Prerequisites: CHEM 2323, CHEM 2325

CHEM 4372 Chemistry Seminar

Credit: 3 | Lecture: 3

The selection, study and formal presentation of topics from the chemical literature.

Prerequisites: Approval of instructor.

CHEM 4373 Quantitative Chemical Analysis

Credit: 3 | Lecture: 3

Designed for students seeking advanced analytical studies through Quantitative Chemical Analysis.

Prerequisites: CHEM 2323, CHEM 2325

CHEM 4374 Surface Chemical Processing

Credit: 3 | Lecture: 3

The course topics cover relevant surface chemical phenomena as encountered in environmental and chemical/industrial applications. The course material will discuss the fundamental surface chemical processes and the role of surface/interface properties in scientific and industrial applications as well as the principles of conventional and advanced surface analytical techniques.

Prerequisites: CHEM 1311, CHEM 1312

CHEM 4375 Petroleum Geology

Credit: 3 | Lecture: 3

This course studies the topics of the "petroleum system", origin and migration of hydrocarbons, reservoirs, traps and seals, sedimentary basins and some of the most commonly used methods in exploration and development.

CHEM 4376 Introduction to Petroleum Chemistry

Credit: 3 | Lecture: 3

This course provides a broad understanding of the composition, chemical/physical properties of crude oil and petroleum products as well as the relative unit operations in industrial process.

Prerequisites: CHEM 1311, CHEM 1312

CHEM 4379 Undergraduate Research in Chemistry

Credit: 3 | Lecture: 3

Approval of a faculty member under whose direction the research will be carried out, the chemistry program chair and associate dean.

CHEM 4389 Independent Study in Chemistry

Credit: 3 | Lecture: 3

Prerequisites: Approval of instructor, chair and associate dean.

CHEM 4391 Selected Topics in Chemistry

Credit: 3 | Lecture: 3

Identified by specific title each time course is offered.

CINF Computer Information Systems

CINF 1370 Introduction to Computer Information Systems

Credit: 3 | Lecture: 3

A general overview of the computing field and its typical applications, information systems concepts and terminologies. Topics include hardware, software and telecommunication fundamentals, the internet, systems development methods and career opportunities. Hands-on experience using application software.

CINF 3311 Programming With Visual Basic Credit: 3 | Lecture: 3

Programming with Visual Basic with emphasis on object-oriented programming and the users of integrated development environments. Data types, control structures, functions, subroutines, files, classes and controls. Development using the .Net framework. Laboratory instruction.

CINF 3321 Information Systems Theory and Practice

Credit: 3 | Lecture: 3

Introduction to the theory and practice of information systems. Development, application and management of IS. Hardware and software issues for IS. Ethical, social and security related issues of IS. IS environments. Laboratory instruction.

Prerequisites: A high level programming language.

CINF 3331 Business Data Communications

Credit: 3 | Lecture: 3

Introduction to business data communications. WANs, LANs and Internet concepts. A survey of data communications with emphasis on the impact of digital technology on the operation, management and economics of computer information systems.

Prerequisites: CSCI 1470

CINF 3391 Topics in Computer Information Systems

Credit: 3 | Lecture: 3

Identified by specific title each time course is offered. Laboratory instruction.

CINF 4189 Independent Study in Computer Information Systems

Credit: 1 | Lecture: 1

Prerequisites: Approval of instructor, chair and

associate dean.

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CINF 4195 Cooperative Education Work Term Credit: 1 | Lecture: 1

Educational paid work assignment by a student in the field of career interest and course of study. A technical report will be required at the end of the semester. (Specific requirements are noted in the Cooperative Education Catalog description.) Prerequisites: Approved Candidate Plan of Study, completed cooperative education file and approval of associate dean and Director of Cooperative Education.

CINF 4289 Independent Study in Computer **Information Systems**

Credit: 2 | Lecture: 2

Prerequisites: Approval of instructor, chair and

associate dean.

CINF 4308 Topics in Computer Information Systems-Non-Majors

Credit: 3 | Lecture: 3

Identified by specific title each time course is offered. Not to be taken by majors in computing program. Laboratory instruction.

CINF 4320 Web Application Development Credit: 3 | Lecture: 3

Survey of languages, tools and techniques for Web Application Development, HTML, XHTML, CSS, JavaScript, Dynamic HTML, Server-side web development using .Net Framework with ASP.Net and C#, Perl CGI programming with Perl, XML. Laboratory instruction.

Prerequisites: CSCI 2315

CINF 4323 Computer Security

Credit: 3 | Lecture: 3

Introduction to encryption, decryption and cryptographical protocols; security components; security policies and mechanisms in computer applications, computer systems and networks; legal/ethical issues in computer security.

Laboratory instructions.

Prerequisites: CSCI 3331, CSCI 3352.

CINF 4324 Modern System Analysis and Design Credit: 3 | Lecture: 3

Key concepts and principles of systems analysis; Techniques and tools of the systems analysis methodology; Current issues of systems analysis and business process reengineering.

Prerequisites: CINF 3321.

CINF 4334 Electronic Commerce

Credit: 3 | Lecture: 3

Key concepts and principles of e-commerce; importance of e-commerce in the global economy; technological elements of the infrastructure of e-commerce; business and social factors associated with the success or failure of e-commerce; critical thinking to strategize and plan technology based solutions to achieve business goals.

Prerequisites: CINF 4320 or approval of instructor.

CINF 4364 Computer Systems Administration Credit: 3 | Lecture: 3

Administration of computers and their operating systems, both as stand-alone and in network topologies. Unix is used as an example.

Laboratory instruction.

Prerequisites: CSCI 2315 or ITEC 3312 and senior

standing.

CINF 4379 Internship in Computer Information Systems

Credit: 3 | Lecture: 3

Supervised work experience in an approved industrial firm or government agency. Written and oral report required.

Prerequisites: 15 hours of upper-level credit; approval by adviser and associate dean.

CINF 4381 Computer Forensics

Credit: 3 | Lecture: 3

This course examines the various media and strategies of storing information. Students will learn different aspects of computer crime and ways in which to protect, uncover and understand digital evidence. Students will gain experience using hardware and software tools to perform investigations. Laboratory instruction. *Prerequisites: CSCI 1471 or CSCI 1370 or ITEC 3381*

CINF 4388 Senior Project in Computer Information Systems

Credit: 3 | Lecture: 3

May be taken only during the final semester before graduation. Registration is restricted to students with an approved Candidate Plan of Study. Students develop a significant computer application for a realistic project in CIS that emphasizes the entire software lifecycle. Professional behavior, ethics and teamwork will be developed. Students prepare written reports and give oral presentations. Laboratory instruction.

Prerequisites: CSCI 4333 and SWEN 4342.

CINF 4389 Independent Study in Computer Information Systems

Credit: 3 | Lecture: 3

Prerequisites: Approval of instructor, chair and

associate dean.

CINF 4391 Selected Topics in Computer Information Systems

Credit: 3 | Lecture: 3

Identified by specific title each time course is offered. Laboratory instruction.

COMM Communication

COMM 1307 Introduction to Mass Communication

Credit: 3 | Lecture: 3 | Lab: 0

An introduction to mass media theory, convergence, media technology history and innovations, social media, and societal implications. Media literacy will be emphasized.

COMM 1315 Public Speaking

Credit: 3 | Lecture: 3 | Lab: 0

Application of communication theory and practice to the public speaking context with emphasis on audience analysis, speaker delivery, ethics of communication, cultural diversity, and speech organizational techniques to develop students' speaking abilities as well as their ability to effectively evaluate oral presentations.

COMM 3320 Principles of Public Relations

Credit: 3 | Lecture: 3 | Lab: 0

Overview of persuasive communication as it pertains in theory and practice to public relations, marketing and advertising practices.

COMM 3321 Media Writing

Credit: 3 | Lecture: 3 | Lab: 0

Journalistic writing, including fact gathering, news and feature writing styles, publication

relations, and freelance writing.

COMM 3350 Visual Communication

Credit: 3 | Lecture: 3 | Lab: 1

Introduction to creative strategies for developing art assets for a variety of digital media using Adobe Photoshop. Students will explore idea generation, concept design, visual development, usability, interface design and audience engagement.

Prerequisites: ARTS 2371

COMM 3351 Mass Media and Society

Credit: 3 | Lecture: 3 | Lab: 0

Exploration of mediated communication and media effects with an advanced critical cultural approach to media and society topics, relative theories and effects. Research – and writing – intensive course.

COMM 3352 Media Law

Credit: 3 | Lecture: 3 | Lab: 0

Legal issues as pertinent to the professional

communicator.

COMM 3353 Alternative Media Marketing

Credit: 3 | Lecture: 3 | Lab: 0

In-depth exploration of persuasive communication as it relates to alternative media marketing and integrated marketing communication campaigns that utilize persuasive communication, including marketing, advertising, and PR communication strategies. *Prerequisites: Junior or Senior level standing.*

COMM 3354 Gathering Information

Credit: 3 | Lecture: 3 | Lab: 0

Research techniques in which students identify and collect information from libraries, archives, databases, the Internet and interviews. The gathered information is then used to write magazine articles, reports and strategic studies.

COMM 3355 Communication Ethics

Credit: 3 | Lecture: 3 | Lab: 0

Examination of a range of ethical principles and case studies with the ultimate goal of helping students work out their own professional standards and commit to them.

COMM 3356 Advertising Procedure

Credit: 3 | Lecture: 3 | Lab: 0

Study of consumer advertising from several perspectives: historical forces, advertising agency operations, and successful campaigns. Students learn about targeting demographics, innovative advertising methods, and how to identify and collect information.

COMM 3360 Web Design

Credit: 3 | Lecture: 3 | Lab: 1

Fundamentals of Web design, including graphical editors, basic layouts, colors, and

accessibility standards.

Prerequisites: ARTS 2371 or permission of instructor.

COMM 3361 Advanced Web Design

Credit: 3 | Lecture: 3 | Lab: 1

Introduction to creating client-based projects using HTML, XHTML, and CSS. Introduction to Javascript.

Prerequisites: ARTS 2371 and COMM 3360 or

permission of instructor.

COMM 4061 Communication Portfolio

Credit: o | Lecture: o | Lab: o

A pass/fail exit requirement included as part of the degree plan's capstone requirement. Students showcase their best work, both textual and graphic, in an electronic portfolio.

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COMM 4161 Communication Portfolio

Credit: 1 | Lecture: 0 | Lab: 0

Exit course for Media Studies curriculum. Showcases a student's best work, both textual and graphic, from previous semesters. Media Studies faculty and outside reviewers evaluate the portfolio.

COMM 4189 Independent Study in Communication

Credit: 1 | Lecture: 0 | Lab: 0

Permission of instructor required. May be taken for 1 hour of credit. For 3 credit hours of Independent Study credit, students should enroll in COMM 4389.

COMM 4301 Global Issues in Film

Credit: 3 | Lecture: 3 | Lab: 0

Global issues in media are addressed using a critical/cultural studies approach. Focuses on global mediated issues (film, texts, news, internet, etc.), in order to foster an understanding of diversity and to teach global media literacy.

Prerequisites: Junior/Senior status

COMM 4322 Public Relations Writing

Credit: 3 | Lecture: 3 | Lab: 0

Professional approach to crafting messages that build mutually beneficial relationships between organizations and their constituents. Includes press releases, public service announcements, newsletters, brochures, speeches, and social media.

Prerequisites: COMM 3320 and COMM 3321 or equivalent.

COMM 4346 2D Animation

Credit: 3 | Lecture: 3 | Lab: 1

Instruction in 2D animation, user interactivity,

and publishing files.

Prerequisites: ARTS 2371, ARTS 3360, and COMM

3360 or permission of instructor.

COMM 4350 3D Computer Modeling

Credit: 3 | Lecture: 0 | Lab: 3

Introduction to 3D modeling techniques for animation, images, and 3D computer sculptures, including to build 3D models, modeling techniques used in 3D software applications. Texture mapping and lighting in a 3D environment.

Prerequisites: ARTS 2371 and ARTS 3360 or

permission of instructor.

COMM 4351 3D Animation Credit: 3 | Lecture: 0 | Lab: 3

Fundamental principles of animation. Introduces students to 3D computer animation techniques including key framing, path animation, nonlinear animation, and hierarchical animation. Covers story boarding and animation project

planning.

Prerequisites: COMM 4350

COMM 4352 Photojournalism

Credit: 3 | Lecture: 0 | Lab: 3

Exploration of photography as a form of journalistic storytelling. Includes study of technical and emotional aspects of photographs as well as techniques in Photoshop.

Prerequisites: ARTS 2371

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COMM 4353 Advanced Media Writing

Credit: 3 | Lecture: 3 | Lab: 0

Course covers methods and practice in the research, writing, and editing of professional quality messages for print, public relations, and broadcast

broadcast.

Prerequisites: COMM 3321

COMM 4354 Video Production I Credit: 3 | Lecture: 3 | Lab: 0

This course is an introduction to the basics of video production, including camera work, capturing video and sound using DSLR and traditional video cameras, working with lights, fundamental story-telling and interview skills as well as basic non-linear editing skills using either Premiere Pro or Final Cut X. A portion of the course will also be dedicated to the basics of Studio-Based Video Production. (Cross-listed with DMST 5534.)

COMM 4355 Video Production 2

Credit: 3 | Lecture: 3 | Lab: 0

This class requires basic video production skills. The students will hone their production skills and work towards a worthwhile video portfolio. The class will partly be taught in a production studio giving ample opportunity to work on Studio-Based video projects. (Cross-listed with DMST 5535.)

COMM 4356 Magazine Publication

Credit: 3 | Lecture: 0 | Lab: 3

Laboratory course covering magazine

production.

Prerequisites: COMM 3321

COMM 4357 Documentary Video Production

Credit: 3 | Lecture: 3 | Lab: 0

This class teaches the basic of documentary video production, including the proper use of production equipment, developing a story line, and developing interview skills and research methods. (Cross-listed with DMST 5537.)

COMM 4358 Publication Design

Credit: 3 | Lecture: 3 | Lab: 1

Coverage of theory and technology related to creation of graphic products for offset printing. Includes examination of Photoshop, Illustrator, InDesign, and other software applications.

Prerequisites: ARTS 2371

COMM 4359 Studio-Based Video Production

Credit: 3 | Lecture: 3 | Lab: 0

In this class, students are introduced to multicamera studio set-ups. Students will rotate through all relevant positions of a typical production studio, including camera, sound, directing, etc.

COMM 4379 Communication Internship

Credit: 3 | Lecture: 3 | Lab: 0

A supervised on–site internship in a communication capacity.

Prerequisites: Must pass GSP test.

COMM 4381 Project Management

Credit: 3 | Lecture: 3 | Lab: 0

Introduction to project management practices and tools used to manage a variety of multimedia and communication projects.

COMM 4389 Independent Study in Communication

Credit: 3 | Lecture: 0 | Lab: 0

Permission of instructor required. May be taken for 3 hours of credit. For 1 hour of Independent Study credit, students should enroll in COMM 4189 Independent Study in Communications.

COMM 4391 Selected Topics in Communication

Credit: 3 | Lecture: 3 | Lab: 0

Identified by a specific title each time course is offered. Topics vary; may be repeated for credit with permission of instructor.

COMM 4655 Media Production

Credit: 6 | Lecture: 0 | Lab: 6

Laboratory course covering journalistic writing, fact gathering, photography, videography, graphic design, social media, and advertising. Students will produce the student newspaper, The Signal.

Prerequisites: Must pass GSP test, COMM 3321.

COUN Counseling

COUN 1301 Introduction to Counseling Credit: 3 | Lecture: 3 | Lab: 0

A comprehensive introduction to mental health, showing that the instructional, philosophical, and theoretical orientations of counseling are based on phenomenological, psychosocial, and life-span developmental approaches.

COUN 2301 Addictions in Counseling I

Credit: 3 | Lecture: 3 | Lab: 0

While providing a thorough review of the research, theory, and history of addiction counseling, the course will explore an array of techniques and skills that a new practitioner will need in the real world.

COUN 2302 Counseling Theories

Credit: 3 | Lecture: 3 | Lab: 0

Provides the foundation for counseling students to begin to acquire a counseling style tailored to their own personality based on the major approaches to therapeutic processes.

COUN 2303 Crisis Assessment, Intervention, and Prevention

Credit: 3 | Lecture: 3 | Lab: 0

Focuses on practical application, assessment, and treatment options for numerous crisis situations such as homicide, intimate partner violence, rape, sexual abuse, terrorism, school shootings, and natural disasters.

COUN 3301 Developmental Counseling

Credit: 3 | Lecture: 3 | Lab: 0

Provides an in-depth look at the science of human development and how it applies to the field of counseling. Using counseling applications, case studies, and journal questions, the course introduces developmental theories and research within the context of clinical practice.

COUN 3303 Counseling Skills

Credit: 3 | Lecture: 3 | Lab: 0

Students will develop competence in the fundamental skills of listening, addictions intervention, and learn to provide appropriate referral for advanced mental health issues. With a solid grounding in such skills as effective use of questioning, reflection of feelings, eliciting and modifying dysfunctional thoughts, and behavioral change strategies, students will acquire stronger helping skills for working with clients with addictions issues.

COUN 3304 Group Therapy Credit: 3 | Lecture: 3 | Lab: 0

Provides students with a view of group work, including types of addictions groups, development of group dynamics, diversity and multicultural issues in groups, confronting denial or manipulative behaviors with group support, and the history of addictions-based group work.

Prerequisites: COUN 2302 and COUN 3301

COUN 3305 Diagnostics & Assessments Credit: 3 | Lecture: 3 | Lab: 0

Exposes students to the risks and resources approach to assessment, interviewing principles and methods, exploring presenting problems and readiness for change, informal and formal observations, assessing the therapeutic alliance, standardized risk assessments, dangerousness to self and others, and assessing substance use.

Prerequisites: EDUC 3301

COUN 3306 Career Counseling Credit: 3 | Lecture: 3 | Lab: 0

Students will learn the basics of helping individuals involved in addictions recovery make career decisions, choices, and advocate for necessary mental health support on the job as well as explore the implications of legal action on various occupational choices.

COUN 3307 Stress Management Credit: 3 | Lecture: 3 | Lab: 0

Provides the "how to" of stress management and prevention. The course emphasizes experiential learning and encourages students to personalize learning through practical applications and a "tool box" of stress-reducing resources, including activities and online stress-relief audio files.

COUN 3312 Social and Political Intervention in Addictions Counseling

Credit: 3 | Lecture: 3 | Lab: 0

Course will include community-based service learning in order to have better understanding of the needs of homeless, refugees, immigrants, clients with low socio-eoconomic status, or otherwise disenfranchised populations. Course will also expose students to obstacles and opportunities available regarding chemical dependency intervention and treatment for veterans.

COUN 3313 Addictions and Personal Nutrition

Credit: 3 | Lecture: 3 | Lab: 0

Introduces counseling students to nutritional information as it relates to personal health and nutrition, and commonly held misconceptions.

COUN 4301 Ethical Decision-Making for Addictions Counselors

Credit: 3 | Lecture: 3 | Lab: 0

Covers the core precepts of the American Counseling Association professional code of ethics that includes confidentiality, informed consent, boundaries and the use of power, and competency and professional responsibility. Students are exposed to a number of critical topics that counselors can face in daily practice.

Prerequisites: COUN 2302 and COUN 3301

COUN 4302 Psychopharmacology

Credit: 3 | Lecture: 3 | Lab: 0

Students are challenged to understand the implications of neurochemical changes and the potential benefits and limitations of many different types of drugs on human behavior. Students will learn the role of as well as the boundaries in which mental health counselors must ethically and legally function given the contemporary role pharmacology has in mental healthcare.

Prerequisites: COUN 4301

COUN 4303 Family Dynamics Credit: 3 | Lecture: 3 | Lab: 0

Students will learn the history of family therapy, multicultural aspects of family therapy, ways of working with various types of families, ethical and legal issues involved in family therapy, and ways of assessing families. The course will provide students with an understanding of how individual and family life cycles differ and how healthy and dysfunctional families operate regardless of structure or ethnicity.

Prerequisites: COUN 2302 and COUN 3301

COUN 4304 Child and Adolescent Counseling Credit: 3 | Lecture: 3 | Lab: 0

Students are exposed to multiple therapeutic approaches for counseling children and adolescents, including psychodynamic, child-centered, behavior/cognitive-behavioral, and family systems. Students will explore the relationships children and adolescents build with parents, teachers, and other adults as well as developmental processes, and multicultural influences involved.

Prerequisites: COUN 2302, COUN 3301

COUN 4305 Special Populations

Credit: 3 | Lecture: 3 | Lab: 0

Designed for students on the General Counseling Track, students will explore the role of counseling within specific groups. The course will provide resources for students to learn the special needs and challenges of veteran, geriatric and other significant groups.

Prerequisites: COUN 2302, COUN 3301

COUN 4306 Crisis Management

Credit: 3 | Lecture: 3 | Lab: 0

Designed for students on the General Counseling Track, the course provides an approach to crisis intervention that is broad-based and current. This course supports the argument that victims of crisis and trauma can recover and grow into strong and healthy survivors. Students acquire knowledge of the techniques that utilize the strength of survivors and first time responders.

Prerequisites: COUN 2302, COUN 3301

COUN 4307 Case Management Credit: 3 | Lecture: 3 | Lab: 0

Designed for students on the Addictions Track, the course explores the leading models of case management and its various functions as practiced within the substance abuse treatment continuum. Students are provided with a comprehensive review of knowledge, skills, and attitudes that substance abuse counselors need to perform the case management activities of referral and service coordination.

Prerequisites: COUN 2301

COUN 4308 Addictions Counseling II

Credit: 3 | Lecture: 3 | Lab: 0

Designed for students on the Addictions Track, this course provides advanced level of training in which students will learn skills for dealing with resistance, thereby, improving treatment compliance; Brief Strategic Problem-Solving Therapy techniques with substance abusers; Systems Approach and Solution-Focused Therapy with alcoholism. The significance of consultation and client empowerment within the dynamics of recovery will be studied.

Prerequisites: COUN 2301

COUN 4309 Practicum

Credit: 3 | Lecture: 3 | Lab: 0

Students will both observe and practice counseling under the guidance and supervision of an appropriately licensed/credentialed professional. The Texas Board of Examiners sets guidelines for the practicum experience for Licensed Professional Counselors and for Licensed Chemical Dependency Counselors.

Prerequisites: Approval of the Program

COUN 4310 Learning Theories for Addiction Counselors

Credit: 3 | Lecture: 3 | Lab: 0

A study of major theories of learning, motivation, and cognition as they apply to addictions counseling.

CRIM Criminology

CRIM 1301 Introduction to Criminal Justice

Credit: 3 | Lecture: 3 | Lab: 0

History, philosophy, and ethical considerations of criminal justice; the nature and impact of crime; and an overview of the criminal justice system, including law enforcement and court procedures.

CRIM 3312 Criminology

Credit: 3 | Lecture: 3 | Lab: 0

Theories of causation; patterns and social response. (Cross-listed with SOCI 3312.)

CRIM 3313 Policing Universities and Colleges

Credit: 3 | Lecture: 3 | Lab: 0

A detailed look into higher education policing, the laws that govern it, the challenges in its administration, and its similarities to and differences from municipal law enforcement.

CRIM 3314 Terrorism and Homeland Security

Credit: 3 | Lecture: 3 | Lab: 0

Examines the history of terrorism and its manifestations in the contemporary world. Terrorism in the U.S. and various components of homeland security are discussed.

CRIM 3335 Deviance

Credit: 3 | Lecture: 3 | Lab: 0

Theories of the existence of deviance in society; management of spoiled identities. (Cross-listed

with SOCI 3335.)

CRIM 4306 Service Learning Credit: 3 | Lecture: 3 | Lab: 0

Service Learning is a course designed for students to take an active part in organized experiences that meet actual community needs combined with academic instruction, focusing on critical, reflective thinking and personal and civic responsibility. This course will involve students in activities that address communityidentified needs with service integrating academic skills.

CRIM 4313 Juvenile Delinquency

Credit: 3 | Lecture: 3 | Lab: 0

Individual and community aspects of juvenile delinquency; theories of causes and modes of control. (Cross-listed with SOCI 4313.)

CRIM 4315 The Death Penalty

Credit: 3 | Lecture: 3 | Lab: 0

History and development of capital punishment as a social institution. Focus on issues such as deterrence, discrimination, and execution of innocent prisoners.

CRIM 4330 Criminal Investigation

Credit: 3 | Lecture: 3 | Lab: 0

Review of methods and techniques used by investigators to reconstruct a crime in order to arrest the criminal offender.

CRIM 4331 Prison and Society

Credit: 3 | Lecture: 3 | Lab: 0

Correctional institutions in the United States; analysis of their changing roles and functions. (Cross-listed with SOCI 4331.)

CRIM 4332 Social Problems and the Legal System

Credit: 3 | Lecture: 3 | Lab: 0

The confrontation between individual rights and the welfare of society. Issues are examined from perspectives of sociological, philosophical, and legal theories.

CRIM 4333 Probation and Parole

Credit: 3 | Lecture: 3 | Lab: 0

Exploration of alternatives to incarceration, emphasizing the major community-based activities of probation and parole. Includes discussion of intermediate punishments, restitution programs, house arrest, and electronic monitoring of offenders.

CRIM 4334 Criminal Law

Credit: 3 | Lecture: 3 | Lab: 0

Survey of structure and philosophy of criminal law; topics include criminal liability, criminal defenses, and types of offenses. (Cross-listed with SOCI 4334.)

CRIM 4335 Race and Justice

Credit: 3 | Lecture: 3 | Lab: 0

Analysis of crime rates in the United States and the involvement of racial groups through theoretical exploration and practices in and out of the justice system.

CRIM 4337 Organized Crime

Credit: 3 | Lecture: 3 | Lab: 0

Examination of organized criminal groups, such as the "Mafia" and other criminal groups worldwide. Applies historical, economic, political, and legal perspectives. Emphasizes victimless crime, labor rackets, and extortion. Covers special governmental commissions and legislative reforms.

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CRIM 4338 Policing and Society Credit: 3 | Lecture: 3 | Lab: 0

Critical analysis of the role and function of American law enforcement including historical development and evolution, contemporary police organizations, individual officers, and relationship between police and community. Leverage of objectives of police: law enforcement, service, order, maintenance, and crime prevention.

CRIM 4384 Statistics

Credit: 3 | Lecture: 3 | Lab: 1

Introductory course in statistics in criminology. Topics include both basic descriptive and inferential statistics.

CRIM 4385 Research Methods

Credit: 3 | Lecture: 3 | Lab: 0

Introductory course in research methods in criminology. Topics include theory and measurement, designing and conducting research, and data collection and analysis.

CRIM 4389 Independent Study in Criminology

Credit: 3 | Lecture: 0 | Lab: 0 Permission of instructor required.

CRIM 4390 Contemporary Issues in Criminology Credit: 3 | Lecture: 3 | Lab: 0

Course assesses students' skills in theory, research, and subject content. Explores the many opportunities provided by degree in Criminology. Prerequisites: Completion of at least 80 credits and at least four courses in Criminology.

CRIM 4391 Selected Topics in Criminology

Credit: 3 | Lecture: 3 | Lab: 0

Identified by specific title each time course is offered. Topics vary; may be repeated for credit with permission of instructor.

CRIM 5338 Criminal Law

Credit: 3 | Lecture: 3 | Lab: 0

Study of structure and rationale for criminal law; focus on criminal liability, criminal defenses, and types of offenses. (Cross-listed with CRIM 4334, SOCI 4334, and SOCI 5338.)

CSCI Computer Science

CSCI 1318 Pascal Programming I

Credit: 3 | Lecture: 0 | Lab: 1

Programming with the Pascal programming language with emphasis on structural programming techniques. A study of Pascal including control structures, functions and procedures, arrays, records, I/P, sequential files and relative files. Software development including analysis, design, coding, implementation, testing and documentation. Laboratory instruction.

CSCI 1320 C Programming

Credit: 3 | Lecture: 3

Programming techniques with the C programming language, emphasis on modular design, data abstraction and encapsulation using ANSI C. Use of all features of C including arrays, pointers, structures, prototypes, separate compilation and the C-preprocessor. Development of generic functions and study of portability issues.

CSCI 1370 Software Development with Java Credit: 3 | Lecture: 3

Programming with an object-oriented programming language, Java. Uses iteration, selection, recursion, exception handling, data structures and file I/O. Introduction of Object-oriented programming concepts such as reuse, data abstraction, classes, inheritance, polymorphism, exception handling and UML to build robust code and enhance problem solving methodology. May be used in the place of CS2. *Prerequisites: CSCI 1320 or CSCI 1470.*

CSCI 1470 Computer Science I Credit: 4 | Lecture: 4 | Lab: 0

Introduction to computer programming using Python. Topics include: design tools (flowcharts, pseudocode) control flow statements (if, while, for), simple arithmetic expressions, input and output statements, functions, data structures including strings and lists, text files. Introduction to software development lifecycle and testing. The course is programming—intensive with in–class assignments and weekly homework and a final project. Introduction to Arduino and number systems.

CSCI 1471 Computer Science II

Credit: 4 | Lecture: 4

Build upon basic programming concepts using Java constructs such as iteration, selection, recursion, exception handling, data structures and file I/O. Introduce Object-oriented programming concepts including: reuse principles, data abstraction, classes, inheritance, polymorphism, exception handling and UML to build robust code and enhance problem solving methodology.

Prerequisites: CSCI 1320 or CSCI 1470.

CSCI 2315 Data Structures

Credit: 3 | Lecture: 3

Advanced programming techniques and data structures including arrays, linked lists, queues and stacks; abstract data types, recursion, searching and sorting, binary trees, hashing techniques, elementary algorithm design and analysis, and more.

Prerequisites: (CSCI 1320 and CSCI 1370) or CSCI 1471

CSCI 3303 Fundamentals of Programming Credit: 3 | Lecture: 3

This course will build on basic script programming knowledge. Topics will include: problem solving using built-in functions and lambdas; data structures such as lists, tuples, sets, and dictionaries; comprehensions and generators; visualization; and processing data using databases and files including binary, text, and CSV files, etc. Students will work with Python. Laboratory instruction. Open to non-CS majors only.

Prerequisites: ITEC 2313, CSCI 1470 or instructor approval.

CSCI 3311 Programming With Visual Basic Credit: 3 | Lecture: 3

Programming with Visual Basic with emphasis on object-oriented programming and the uses of integrated development environments.

Data types, control structures, functions and subroutines, files, classes, controls.

Development using the .NET framework.

Laboratory instruction. Open to non-majors only.

CSCI 3321 Numerical Methods

Credit: 3 | Lecture: 3

Taylor series and error analysis, interpolation, solution of linear and non-linear equations, least squares, integration of functions and differential equations. Programming assignments.

Laboratory instruction.

Prerequisites: MATH 2318, MATH 2320, CSCI 1471 or

both CSCI 1320 and CSCI 1370

CSCI 3323 Object-Oriented Design and Programming

Credit: 3 | Lecture: 3

Basic elements of object-oriented technology including classes, their attributes, methods and relations to other classes, objects, classification and inheritance, encapsulation, polymorphism, object-oriented analysis, design and programming assignments in C++ language under UNIX. Laboratory instruction.

Prerequisites: CSCI 2315

CSCI 3331 Computer Organization and Assembly Language

Credit: 3 | Lecture: 3 | Lab: 0

Basic elements of computer hardware and software, data representations, instruction formats and addressing modes, assembly language instructions, programming techniques in assembly language, macro assemblers, linkloaders, functions of operating systems and input/output programming and peripherals. Laboratory instruction.

Prerequisites: CSCI 2315, MATH 2305, MATH 2414,

PHYS 2325 and PHYS 2326.

CSCI 3352 Advanced Data Structures and Algorithms

Credit: 3 | Lecture: 3

Binary trees, trees, graph theory, finite state automata, external storage devices, sequential and direct file organizations, file processing techniques, hashing, B-trees, external sorting, P and NP problems, algorithmic analysis.

Laboratory instruction.

Prerequisites: CSCI 2315, MATH 2305, MATH 2414, PHYS 2325 and PHYS 2326.

CSCI 3362 Artificial Intelligence Programming Languages

Credit: 3 | Lecture: 3

An introduction to AI programming languages. Programming assignments in LISP and Prolog.

Laboratory instruction. *Prerequisites: CSCI* 2315.

CSCI 3391 Selected Topics in Computing

Credit: 3 | Lecture: 3

Identified by specific title each time course is

offered.

CSCI 4189 Independent Study in Computer Science

Credit: 1 | Lecture: 1 | Lab: 0

Prerequisites: Approval of instructor, chair and

associate dean.

CSCI 4195 Cooperative Education Work Term Credit: 1 | Lecture: 1

Educational paid work assignment by a student in the field of career interest and course of study. A technical report will be required at the end of the semester. (Specific requirements are noted in the Cooperative Education Catalog description.) Prerequisites: Approved Candidate Plan of Study, completed cooperative education file and approval of associate dean and Director of Cooperative Education.

CSCI 4289 Independent Study in Computer Science

Credit: 2 | Lecture: 2

Prerequisites: Approval of instructor, chair and

associate dean.

CSCI 4303 Concepts of Database Systems Credit: 3 | Lecture: 3

An introduction to the concepts of database systems for non-computing majors, including modeling and implementation of database systems, data models, relational models, database languages, relational algebra, SQL, normalization theory and Web database connectivity. Not to be taken by computing and engineering majors. Laboratory instruction.

Prerequisites: CSCI 3303.

CSCI 4307 Computing Essentials

Credit: 3 | Lecture: 3

Modern computing software tools and information technologies taught in a practical, hands-on manner. Topics covered: word processing, databases, spreadsheets, presentation software, computer programming, the Internet and development of home pages using HTML and other tools. Emphasis is on the development and application of computer skills to the student's program area. Laboratory instruction. Not for credit for computing science majors.

CSCI 4308 Topics in Computer Science - Non Majors

Credit: 3 | Lecture: 3

Identified by topics each time the course is offered. Not to be taken for credit by majors in computing programs. Laboratory instruction.

CSCI 4312 Network Protocols

Credit: 3 | Lecture: 3

Data communications systems software concepts; computer network architecture; ISO

model. Laboratory instruction.

Prerequisites: CSCI 2315

CSCI 4314 Advanced Software Design With Java Credit: 3 | Lecture: 3

Advanced software design with the Java programming language, including multi-threaded applications, exception handling, network programming, Java Beans, security issues and advanced AWT usage. Laboratory instruction.

Prerequisites: CSCI 1370 or CSCI 1471

CSCI 4315 Advanced Software Development With .Net Framework and C#

Credit: 3 | Lecture: 3

In depth study of the managed environment provided by .NET Framework and its use in developing advanced windows applications utilizing OOP concepts and techniques. Includes GUI issues, event and exception handling, multithreading, networking, collections, file and database access as well as an introduction to ASP.NET, Web Forms and Web Services.

Prerequisites: CSCI 2315

CSCI 4320 Web Application Development Credit: 3 | Lecture: 3

Survey of languages, tools and techniques for Web application development, HTML, XHTML, CSS, JavaScript, dynamic HTML, Server-side web development using .Net Framework with ASP.NET and C#, Perl, CGI programming with Perl, XML. Laboratory instruction.

Prerequisites: CSCI 2315.

CSCI 4323 Computer Security

Credit: 3 | Lecture: 3

Introduction to encryption, decryption and cryptographical protocols; security components; security policies and mechanisms in computer applications, computer systems and networks; legal/ethical issues in computer security.

Laboratory instruction.

Prerequisites: CSCI 1370 or CSCI 1471

CSCI 4333 Design of Database Systems

Credit: 3 | Lecture: 3

Design of database systems, data description and manipulation languages, data models, entity-relationship model, relational model, SL, relational algebra, normalization theory, DBMS, Internet, database design, data flow diagrams, and implementation of database systems. Laboratory instruction.

Prerequisites: CSCI 2315

CSCI 4335 Introduction to Artificial Intelligence Credit: 3 | Lecture: 3

Introduction to concepts of artificial intelligence: Foundations of artificial intelligence, intelligent agents, searching, constraint satisfaction, planning, knowledge representation uncertain knowledge and reasoning, and learning. AI programming languages will be introduced. Students who receive credit for CSCI 5335 will not receive credit for this course.

CSCI 4350 Computer Graphics and Interface Design

Credit: 3 | Lecture: 3

Two-dimensional graphics algorithms, point and coordinate transformations, animation on graphics terminals and systems. Laboratory instruction using Solaris X-Windows-environment.

Prerequisites: MATH 2318, MATH 2413

CSCI 4351 Advanced Programming in Unix Credit: 3 | Lecture: 3

Program development in a multiprocessing environment, including; process and file system data structures, process control, synchronization and communication between concurrent processes, shared memory, threads and signals. Advanced input/output mechanisms such as asynchronous I/O and memory mapped I/O. Library functions including system function and database library routines. Laboratory instruction. *Prerequisites: CSCI* 1320, CSCI 2315

CSCI 4354 Operating Systems

Credit: 3 | Lecture: 3

Analysis and design of basic operating systems concepts, including multiprocessing, interprocess communication and synchronization, scheduling, file systems, memory management, input/output and deadlock. Examples drawn from real operating systems including Unix and Windows NT. Laboratory instruction.

Prerequisites: CSCI 2315, CSCI 1331,MATH 2305, MATH 2414, PHYS 2325 and PHYS 2326 and senior standing.

Corequisites: CENG 3351

CSCI 4362 Computer Game Programming: Theory and Practice

Credit: 3 | Lecture: 3 | Lab: 0

Applying a fourth generation game engine and language on designing and developing 2D and 3D real-time multimedia simulations and games for education, training, robotics and entertainment.

Laboratory instruction.

Prerequisites: CSCI 2315

CSCI 4364 Computer Systems Administration Credit: 3 | Lecture: 3

Administration of computers and their operating systems, both as stand-alone and in network topologies. Unix is used as an example. Laboratory instruction.

Prerequisites: CSCI 2315 and senior standing.

CSCI 4379 Internship in Computer Science Credit: 3 | Lecture: 3

Supervised work experience in an approved industrial firm or government agency. Written and oral report required.

Prerequisites: 15 hours of upper-level credit; approval by adviser and associate dean.

CSCI 4381 Computer Forensics

Credit: 3 | Lecture: 3

Introduction to the topics of computer crime and computer forensics. Students will learn different aspects of computer crime and ways in which to protect, uncover and understand digital evidence. Students will gain experience using hardware and software tools to perform rudimentary investigations. Laboratory instruction.

Prerequisites: CSCI 1471 or CSCI 1370

CSCI 4388 Senior Project in Computer Science Credit: 3 | Lecture: 3

May be taken only during the final semester before graduation. Registration is restricted to students with an approved Candidate Plan of Study. Students develop a significant computer application for a realistic project. Emphasis will be on practical experience on all phases of constructing a computer solution. Professional behavior, ethics and teamwork will be developed throughout the project. Students prepare written reports and give oral presentations. Laboratory instruction.

Prerequisites: CSCI 3352 and SWEN 4342.

CSCI 4389 Independent Study in Computer Science

Credit: 3 | Lecture: 3

Prerequisites: Approval of instructor, chair and

associate dean.

CSCI 4391 Selected Topics in Computer Science

Credit: 3 | Lecture: 3

Identified by specific title each time course is

offered.

DSCI Decision Sciences

DSCI 3321 Statistics I Credit: 3 | Lecture: 3

Introduction to probability and statistics; descriptive measures, probability distribution, sample statistics, estimation, confidence intervals, tests of hypotheses, chi-square, F-distribution, linear regression and correlation.

Prerequisites: Prerequisites: Finite Math and

Business Calculus

DSCI 3322 Statistics II Credit: 3 | Lecture: 3

Statistical inference, decision-making, prediction, sample design, significance tests, experimental design, non-parametric methods, decision theory, multiple regression and correlation, time series and index numbers.

Prerequisites: DSCI 3321 or equivalent.

DSCI 3331 Quantitative Methods for Management

Credit: 3 | Lecture: 3

Introduction to quantitative techniques for management; probability, inventory and production models, linear programming, queuing, replacement models, Markov analysis and network models. Previously taught as DSCI 3131; credit may not be received for both courses.

Prerequisites: DSCI 3321 or equivalent.

DSCI 4351 Forecasting Systems

Credit: 3 | Lecture: 3

Techniques for forecasting; time series, statistical methods and analysis of error. *Prerequisites: DSCI* 3321 or equivalent.

DSCI 4389 Independent Studies in Decision Sciences

Credit: 3 | Lecture: 3

Independent directed study in Decision Sciences.

Prerequisites: Approval of instructor, Faculty Chair

and Associate Dean required.

DSCI 4391 Selected Topics in Decision Sciences

Credit: 3 | Lecture: 3

Identified by specific title each time course is

offered.

ECED Early Childhood Education

ECED 1303 Children and Families

Credit: 3 | Lecture: 3 | Lab: 0

Social contexts in which a child develops, the relationships of individuals in these social contexts and the interaction within and between cross-cultural contexts. Field experiences required.

ECED 1311 Historical and Recent Trends in Early Childhood Education

Credit: 3 | Lecture: 3 | Lab: 0

Historical, societal, political, and economic factors that influence progressive early childhood programs and child services. Field experiences required.

ECED 1318 Nutrition, Health and Safety

Credit: 3 | Lecture: 3 | Lab: 0

Study of nutrition, health, safety and related activities, including skills development in management of issues, guidelines and practices in nutrition, community health, hygiene and safety. Integration of these principles applies to a variety of EC-4 settings. Field experiences required.

ECED 1354 Developmental Theories of Young Children

Credit: 3 | Lecture: 3 | Lab: 0

Focus on historic and current theories of children's learning and development.

ECED 4302 Developing Competence in Young Children

Credit: 3 | Lecture: 3 | Lab: 0

Focus on the relationship among the content areas, skills, concepts and practices that support early competence in young children. Integration of national and state standards into curriculum planning is featured. Field experiences required. *Prerequisites: ECED 1354, INST 3313 and TCED 4303*

ECED 4303 Child Guidance and Classroom Management for Young Children

Credit: 3 | Lecture: 3 | Lab: 0

Theories and strategies for guiding the behavior of young children (birth to age five) inside and outside the classroom environment. Focus will be on effective strategies for behavior management, including the role of problem solving, the classroom community and family involvement. Field experiences required.

ECED 4305 Literacy Development Birth-Age 5 Credit: 3 | Lecture: 3 | Lab: 0

This course will cover language and literacy development for children birth through age five, including the beginning stages of reading and writing development, oral language development, parent involvement in literacy learning and appropriate curriculum for young children's literacy development. Field experience required.

ECED 4306 Assessment of Young Children Birth-Age 5

Credit: 3 | Lecture: 3 | Lab: 0

This course will cover formal and informal assessment strategies appropriate for children birth through age five. Assessment for children's cognitive, social, physical and motor development for curriculum planning will be addressed as well as identifying children with developmental needs. Field experience required.

ECED 4307 Mathematics and Science in Early Childhood Education

Credit: 3 | Lecture: 3 | Lab: 0

This course will explore principles, methods and materials for integrating and applying appropriate math and science education into early childhood curriculum.

ECED 4308 Creativity in Early Childhood Credit: 3 | Lecture: 3 | Lab: 0

This course explores the theory, content and practice of integrating the performing arts into the curriculum design and early learning environments. Emphasis is placed on aesthetic development of young children through play, visual art, music, movement and creative dramatics.

ECED 4309 Advocacy and Parent Engagement Credit: 3 | Lecture: 3 | Lab: 0

This course focuses on the historical and current role of advocacy in Early Childhood Education, the development of advocacy skills, as well as collaboration with stakeholders such as parents, schools, communities and federal, state and local government leaders. Strategies for developing successful parent, school and community involvement programs will be analyzed. Field experience will be required.

ECED 4311 Reading Development in Young Children

Credit: 3 | Lecture: 3 | Lab: 0

Focus on early language and literacy development of young children. Oral language development, beginning reading and writing strategies and family literacy are featured. Field experiences required.

Prerequisites: LLLS 4311 and LLLS 4345.

ECED 4314 Observational/Developmental Assessment of Young Children

Credit: 3 | Lecture: 3 | Lab: 0

Evaluation and uses of developmental and cognitive assessment instruments and their theoretical bases will be explored. Students will develop informal assessments of the intellectual, language, social, physical and motor development of young children.

Prerequisites: ECED 4302.

ECED 4320 Play

Credit: 3 | Lecture: 3 | Lab: 0

Focus on philosophy, research and applications of modern play and environments for play. Influences of play on child development, cognition, culture and overall health. The role of play in the early childhood curriculum will be emphasized. Field experiences required.

ECED 4321 Infants and Toddlers

Credit: 3 | Lecture: 3 | Lab: 0

Overview of human development from prenatal stages through the first two years of life. Emphasis is placed on the interrelationship of cognitive, physical, social and emotional development in a variety of contexts and cultures. Appropriate curriculum and environment for infants and toddlers will be emphasized. Field experiences required.

ECED 4322 Cultural Awareness for Young Children

Credit: 3 | Lecture: 3 | Lab: 0

Focus on impact of diversity on development of young children. The influence of culture and social class on children's socialization and cognition will be discussed. Research and theories to support the development of minority children will be emphasized.

Prerequisites: SILC 4315.

ECED 4323 Preschool Curriculum

Credit: 3 | Lecture: 3 | Lab: 0

Overview of integrated curriculum for children age three to five, including appropriate content, methodology, environment, materials and resources. Field experiences required.

ECED 4324 Early Childhood Leadership and Program Quality

Credit: 3 | Lecture: 3 | Lab: 0

This course will cover the leadership skills necessary to go beyond individual programs to leadership in communities and in the field. The focus will be on collaboration, interconnections, relationships and program quality. Overarching themes include the importance of excellence and diversity in early childhood programs, and the role of vision and reflective practice in reaching these goals.

ECED 4325 Early Childhood Program Development

Credit: 3 | Lecture: 3 | Lab: 0

This course introduces principles of basic programming and staffing, budgeting/financial management and marketing, and rules and regulations of diverse early childhood programs. Topics include program structure and philosophy, standards, finance, staff and organizational management.

ECED 4326 Effective and Positive Classroom Interactions for Young Children

Credit: 3 | Lecture: 3 | Lab: 0

This course is designed to improve practitioners' knowledge and skills regarding specific types of adult-child interactions that can have a positive impact on young children's development. Using state and nationally recognized criteria for high-quality interactions, this course will provide strategies that align with those criteria and that will prepare professionals to engage in positive and effective interactions with young children, toddlers through preschool.

ECED 4332 Early Childhood Special Education Credit: 3 | Lecture: 3 | Lab: 0

A study of atypical development in infants and young children with a focus on educational planning and programming. Field experiences required.

Prerequisites: SPED 4300 or SPED 5030.

ECED 4333 Advanced Early Childhood Special Education

Credit: 3 | Lecture: 3 | Lab: 0

This course will extend key topics in early childhood special education presented in the SPED 4332/ECED 4332 course, specifically strategies and techniques used by practitioners in early childhood special education settings serving children birth to age five. The research-based topics will include sign language, picture exchange, communication systems, portfolios, social scripts/videos, music therapy, as well as other advanced strategies and techniques used in settings with young children with communication/language needs, social/behavioral needs, and cognitive needs. Field experiences required.

ECED 4377 Practicum

Credit: 3 | Lecture: 3 | Lab: 0

Supervised field experience in an approved early childhood educational setting. Permission of instructor required.

ECED 4389 Independent Study in Early Childhood Education

Credit: 3 | Lecture: 3 | Lab: 0

Prerequisites: Approval of instructor and associate

dean.

ECED 4391 Selected Topics in Early Childhood Education

Credit: 3 | Lecture: 3 | Lab: 0

Identified by title each time course is offered.

ECON Economics

ECON 2301 Principles of Macroeconomics Credit: 3 | Lecture: 3

An analysis of the economy as a whole, including measurement and determination of aggregate demand and aggregate supply, national income, inflation and unemployment. Other topics include international trade, economic growth, business cycles, fiscal policy and monetary policy.

ECON 2302 Principles of Microeconomics Credit: 3 | Lecture: 3

Analysis of the behavior of individual economic agents, including consumer behavior and demand, producer behavior and supply, price and output decisions by firms under various market structures, factor markets, market failures and international trade.

ECON 3311 Money and Banking Credit: 3 | Lecture: 3

The role of money and the banking system in the economy; monetary theory and policy and international monetary conditions.

Prerequisites: Principles of economics.

ECON 3321 Development Economics Credit: 3 | Lecture: 3

An evaluation of the economic growth and development in developed and developing countries. Topics include determinants of economic growth, the roles of credit markets and political forces in growth, poverty, and health and nutrition.

Prerequisites: Principles of Economics or equivalent

ECON 3361 Industrial Organization

Credit: 3 | Lecture: 3

The structure of contemporary industry and the forces that have shaped it, including manufacturing, trade and transportation.

The role of the large corporation in modern industrial organization. The relation of industrial structure to economic behavior and performance. *Prerequisites: Principles of Macroeconomics*

ECON 3371 Public Finance

Credit: 3 | Lecture: 3

Problems of collective consumption, external effects, public investment, social decision—making and property taxes, and other tax and non-tax revenue sources. Consideration of current policy issues and relations among various levels of government.

Prerequisites: Principles of Microeconomics

ECON 3381 Energy and Environmental Economics

Lecture: 3

Economic techniques applied to particular issues of energy markets, environmental impacts, investment in renewables, and other issues such as transportation and conservation. Study includes economics of energy and environmental regulation such as utility management, emissions trading markets, and optimal effluent taxes.

Prerequisites: Principles of Microeconomics

ECON 3391 Sports Economics

Credit: 3 | Lecture: 3

Intercollegiate and professional sports leagues. Competitive balance, player labor markets, and owner capital markets. Theories of league expansion, rival leagues, franchise relocation, and sports venue finance. Comparisons of international sports leagues.

Prerequisites: Principles of Microeconomics

EDUC Education

EDUC 1100 Learning Framework Credit: 3 | Lecture: 3 | Lab: 0

A study of the 1) research and theory in psychology of learning, cognition, and motivation 2) factors that impact learning, and 3) application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of college-level student academic strategies. Students use assessment instruments (e.g., learning inventories) to help them identify their own strengths and weaknesses as strategic learners. Students are ultimately expected to integrate and apply the learning skills discussed across their own academic programs and become effective and efficient learners. Students developing these skills should be able to continually draw from the theoretical models they have learned.

EDUC 3301 Introduction to Educational Statistics and Measurement

Credit: 3 | Lecture: 3 | Lab: 0

Applications of measurement, correlation, and descriptive statistics with a focus on interpretation of standardized tests and surveys.

EDUC 4300 School and Community

Credit: 3 | Lecture: 3 | Lab: 0

Historical, legal and philosophical foundations of education in American society.

EDUC 4310 Theories of Educational Psychology Credit: 3 | Lecture: 3 | Lab: 0

A study of major theories of learning, motivation, cognition and moral development as they apply to professionals and learners, including constraints imposed by law and social policy and tradition.

EDUC 4389 Independent Studies in Education

Credit: 3 | Lecture: 3 | Lab: 0

Prerequisites: Approval of instructor and associate

dean.

EDUC 4391 Selected Topics in Education

Credit: 3 | Lecture: 3 | Lab: 0

Identified by specific title each time course is

offered.

EENG Electrical Engineering

EENG 2105 Laboratory for Electrical Circuits I Credit: 1 | Lecture: 0 | Lab: 1

Laboratory experiments supporting theoretical principles presented in ENGR 2305 involving DC and AC circuit theory, network theorems, time, and frequency domain circuit analysis. Introduction to principles and operation of basic laboratory equipment; laboratory report preparation.

Corequisites: EENG 2305

EENG 2305 Electrical Circuits I

Credit: 3 | Lecture: 3

Principles of electrical circuits and systems. Basic circuit elements (resistance, inductance, mutual inductance, capacitance, independent and dependent controlled voltage and current sources). Topology of electrical networks; Kirchhoff's laws; node and mesh analysis; DC circuit analysis; operational amplifiers; transient and sinusoidal steady–state analysis; AC circuit analysis; first and second order circuits; Bode plots and use of computer simulation software to solve circuit problems.

Prerequisites: MATH 2414; PHYS 2325 and 2125;

MATH 2320

Corequisites: MATH 2320

ENGR Engineering

ENGR 1201 Introduction to Engineering

Credit: 2 | Lecture: 2

An introduction to the engineering profession with emphasis on technical communication and team-based engineering design.

Prerequisites: MATH 1314 or equivalent.

ENGR 1304 Engineering Graphics I Credit: 3 | Lecture: 3

Introduction to computer aided drafting using CAD software and sketching to generate two and three-dimensional drawings based on the conventions of engineering graphical communication; topics include spatial relationships, multi-view projections and sectioning, dimensioning, graphical presentation of data and fundamentals of computer graphics.

Prerequisites: MATH 1314 or equivalent.

ENGR 2105 Laboratory for Electrical Circuits I Credit: 1 | Lecture: 0 | Lab: 1

Laboratory experiments supporting theoretical principles presented in ENGR 2305 involving DC and AC circuit theory, network theorems, time, and frequency domain circuit analysis. Introduction to principles and operation of basic laboratory equipment; laboratory report preparation.

Corequisites: ENGR 2305

ENGR 2302 Dynamics Credit: 3 | Lecture: 3

Basic theory of engineering mechanics, using calculus, involving the motion of particles, rigid bodies and systems of particles; Newton's Laws; work and energy relationships; principles of impulse and momentum; application of kinetics and kinematics to the solution of engineering problems.

Prerequisites: ENGR 2301

ENGR 2305 Electrical Circuits I Credit: 3 | Lecture: 3

Principles of electrical circuits and systems. Basic circuit elements (resistance, inductance, mutual inductance, capacitance, independent and dependent controlled voltage and current sources). Topology of electrical networks; Kirchhoff's laws; node and mesh analysis; DC circuit analysis; operational amplifiers; transient and sinusoidal steady-state analysis; AC circuit analysis; first and second order circuits; Bode plots and use of computer simulation software to solve circuit problems.

Prerequisites: PHYS 2325, PHYS 2125, MATH 2414;

MATH 2320

Corequisites: ENGR 2105. MATH 2320.

ENGR 2334 Thermodynamics I

Credit: 3 | Lecture: 3

Fundamental concepts of energy and thermodynamics (e.g., temperature, thermodynamic equilibrium and heat) will be introduced; the course emphasizes techniques in the application of the fundamentals of the thermodynamics to various processes as they frequently occur in chemical and bimolecular engineering. Provides the basic skills and tools necessary in designing and analyzing real-life engineering systems. Serves a preparation for other advanced courses in the thermodynamics, energy conversion, heat transfer, etc.

FNSC Environmental Science

ENSC 1101 Laboratory for Environmental Science

Credit: 1 | Lecture: 0 | Lab: 1

Laboratory exercises include water, soil and air testing, field sampling and observations. Optional and required field trips. Not for biology or environmental science majors.

Corequisites: 1301

ENSC 1102 Laboratory for Environmental Science II

Credit: 1 | Lecture: 0 | Lab: 1

Laboratory exercises in environmental quality assessment techniques, field sampling techniques and related studies of local environments. Optional and required field trips. Not for biology or environmental science majors.

Corequisites: ENSC 1302

ENSC 1301 Environmental Science I

Credit: 3 | Lecture: 3

An introduction to chemical and biological principles relating to ecology, natural resources including animals, plants, water, soil and air. Not for biology or environmental science majors.

Corequisites: ENSC 1101

ENSC 1302 Environmental Science II

Credit: 3 | Lecture: 3

Interdisciplinary study of natural and social sciences and how they apply to the environment, including environmental quality and risk assessment. Not for biology or environmental science majors.

Corequisites: ENSC 1102

ENSC 4189 Independent Study in Environmental

Science

Credit: 1 | Lecture: 1

Prerequisites: Approval of instructor, chair and

associate dean.

ENSC 4195 Cooperative Education Work Term Credit: 1 | Lecture: 1

Educational paid work assignment by a student in the field of career interest and course of study. A technical report will be required at the end of the semester. (Specific requirements are noted in the Cooperative Education Catalog description.) Prerequisites: Approved Candidate Plan of Study, completed cooperative education file and approval of associate dean and Director of Cooperative Education.

ENSC 4289 Independent Study in Environmental Science

Credit: 2 | Lecture: 2

Prerequisites: Approval of instructor, chair and

associate dean.

ENSC 4333 Introduction to Global Climate Change

Credit: 3 | Lecture: 3

Course introduces and integrates the multidisciplinary science working to understand the behavior of the Earth's climate. The course investigates the dynamic roles of Earth's geosphere, cryosphere, hydrosphere, atmosphere, biosphere, orbit and human activities on historical, present and future climates.

ENSC 4362 Environmental Science Seminar Credit: 3 | Lecture: 3

Students will survey the literature, give presentations and prepare research papers in environmental science. Satisfies the environmental science program core requirement.

ENSC 4379 Internship in Environmental Science Credit: 3 | Lecture: 3

Supervised work experience in an approved industrial firm or governmental agency. Written and oral reports required.

Prerequisites: 15 hours of upper-level credit; approval of faculty adviser and associate dean.

ENSC 4389 Independent Study in Environmental Science

Credit: 3 | Lecture: 3

Prerequisites: Approval of instructor, chair and associate dean.

ENSC 4391 Topics in Environmental Science

Credit: 3 | Lecture: 3

Identified by specific title each time course is offered.

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ENVR Environmental Management

ENVR 3311 Foundations of Environmental Management

Credit: 3 | Lecture: 3

Presentation, analysis and application of the principles of managing human interaction with the environment.

ENVR 4189 Independent Studies in Environmental Management

Credit: 1 | Lecture: 1

Independent directed study in Environmental

Management.

Prerequisites: Approval of instructor, Faculty Chair and Associate Dean required.

ENVR 4311 Principles of Air Quality Management Credit: 3 | Lecture: 3

Analysis of practices and technology for the control of atmospheric pollution.

Prerequisites: Introductory chemistry, ENVR 3311 or equivalents.

ENVR 4312 Water Management Principles

Credit: 3 | Lecture: 3

Principles of effective water resources management; national and state water resource practices.

Prerequisites: Introductory chemistry, ENVR 3311 or equivalents.

ENVR 4313 Techniques of Environmental Assessment

Credit: 3 | Lecture: 3

Familiarization with and basic critique of environmental impact assessment, environmental auditing and other decision and planning tools.

Prerequisites: ENVR 3311 and ENVR 4315 or equivalents.

ENVR 4315 Introduction to Environmental Law Credit: 3 | Lecture: 3

Application of legal concepts and systems to environmental issues; basic federal and state environmental legislation.

ENVR 4317 Solid Waste Management Practices Credit: 3 | Lecture: 3

A study of the management practices and technology used for non-hazardous solid waste collection, treatment, disposal and reuse.

ENVR 4331 Environmental Public Policy

Credit: 3 | Lecture: 3

Current environmental issues: problems, causes, alternative solutions and economic and health implications.

ENVR 4332 The Process of Environmental Permitting

Credit: 3 | Lecture: 3

A practical survey of the permits and procedures used by environmental agencies for regulatory control.

ENVR 4333 Introduction to Pollution Control Technology

Credit: 3 | Lecture: 3

An introduction to the technical aspects of pollution control including principles, equipment applications, manpower and energy requirements and economic factors.

Prerequisites: ENVR 3311 or equivalent.

ENVR 4336 Administrative Practice and Ethical Issues

Credit: 3 | Lecture: 3

The study of administrative agencies and their structure and authority; practical considerations when interacting with administrative agencies on environmental issues; ethical issues in environmental management.

ENVR 4379 Internship in Environmental Management

Credit: 3 | Lecture: 3

Supervised field experience with an approved agency or office. Written and oral reports required.

Prerequisites: Prerequisite: Approval of faculty adviser and program director.

ENVR 4389 Independent Studies in Environmental Management

Credit: 3 | Lecture: 3

Independent directed study in Environmental Management.

Prerequisites: Approval of instructor, Faculty Chair and Associate Dean required.

ENVR 4391 Selected Topics in Environmental Management

Credit: 3 | Lecture: 3

Identified by specific title each time course is offered.

FINC Finance

FINC 3301 Personal Money Management

Credit: 3 | Lecture: 3

Quantitative and qualitative applications of key concepts of individual financial management to essential personal finance topics, including exploration of family budgeting, insurance, taxes, borrowing, saving, investing and retirement and estate planning.

Prerequisites: Must have completed 30 SCH.

FINC 3331 Business Finance

Credit: 3 | Lecture: 3

Fundamental tools and techniques in financial planning; working capital management, capital budgeting; cost of capital; dividend theory, mergers and business failures.

Prerequisites: Principles of accounting (ACCT 2301 and 2302), principles of economics (ECON 2301 and 2302) and DSCI 3321 or equivalent.

FINC 3333 Intermediate Financial Management

Credit: 3 | Lecture: 3

Advanced principles and practices in the financial administration of business enterprises. *Prerequisites: FINC* 3331 or equivalent.

FINC 3336 Risk Management

Credit: 3 | Lecture: 3

Techniques for managing pure risks for individuals and small businesses, and the characteristics of life, health, and property insurance are studied.

Prerequisites: FINC 3331 or equivalent.

FINC 3351 Real Estate Investment Analysis

Credit: 3 | Lecture: 3

Analytical foundations of evaluating real estate investments and exploration of the methods of financing such investments.

Prerequisites: ECON 2301 or equivalent

FINC 3353 Investments

Credit: 3 | Lecture: 3

Personal investments in bonds, mortgages, stocks and other securities; financial statements and credit.

Prerequisites: FINC 3331 and FINC 3333 or

equivalents.

FINC 4331 Contemporary Financial Institutions Credit: 3 | Lecture: 3

Management policies of commercial banks, savings and loan associations, credit unions, finance companies and other financial intermediaries.

Prerequisites: FINC 3331 or equivalent.

FINC 4341 Structure of Financial Statements Credit: 3 | Lecture: 3

Evaluation of the structure of financial statements and their use in financial decision—making.

Prerequisites: FINC 3331; ACCT 3341 or ACCT 3332; or equivalents.

FINC 4351 International Financial Operations Credit: 3 | Lecture: 3

International transactions and financial flows; balance of payments, foreign exchange market, worldwide commercial policy and financing.

Prerequisites: FINC 3331 or equivalent.

FINC 4352 Seminar in International Finance Credit: 3 | Lecture: 3

Field experience involving meetings with financial officers of companies operating outside of the United States. Discussions will involve matters relating to the financing of international business activities and operating in a non-American business environment.

FINC 4353 Financial Derivatives

Credit: 3 | Lecture: 3

Quantitative concepts relating to financial derivatives, including options, futures, forwards, swaps and other securities with a primary emphasis on the valuation of these contracts and how they can be used to manage risk by hedging.

FINC 4356 Income Taxation

Credit: 3 | Lecture: 3

An analysis of the federal income tax laws as they apply to individuals and the financial planning process.(Crosslisted with ACCT 4331.)

Prerequisites: FINC 3331 and Principles of

Accounting, or equivalents.

FINC 4361 Treasury Management

Credit: 3 | Lecture: 3

Short-term asset and liability management, including the issues essential to the day-to-day management of cash flows associated with the operating cycle of a firm.

Prerequisites: FINC 3331 or equivalent.

FINC 4373 Retirement and Benefits Planning Credit: 3 | Lecture: 3

Examination of the various retirement vehicles, group life and health programs, and government required benefits. Integration into an overall financial planning process is emphasized.

Prerequisites: FINC 3331 and FINC 3353 or

equivalents.

FINC 4376 Estate Planning

Credit: 3 | Lecture: 3

Examination of federal and state laws concerning the distribution of assets in an estate. Significant attention is made to tax minimization strategies.

Prerequisites: FINC 3331 and FINC 3353 or

equivalents.

FINC 4379 Internship in Finance

Credit: 3 | Lecture: 3

Six hours of supervised work experience each week in an approved financial institution or firm. *Prerequisites: 15 hours of upper-level credit and approval of program director.*

FINC 4389 Independent Studies in Finance

Credit: 3 | Lecture: 3

Independent directed study in Finance.

Prerequisites: Approval of instructor, Faculty Chair and Associate Dean required.

FINC 4391 Selected Topics in Finance

Credit: 3 | Lecture: 3

Identified by specific title each time course is offered.

GEOG Geography

GEOG 1301 Modern Physical Geography

Credit: 3 | Lecture: 3 | Lab: 0

An identification of the geographical dimensions of ecosystems and the earth's physical characteristics as they relate to process, distribution patterns, and implications for humans.

GEOG 1302 Global Geography

Credit: 3 | Lecture: 3 | Lab: 0

A broad survey of the world's major culture regions emphasizing basic physical, cultural, economic, and political patterns, as well as the processes that have created those patterns. Emphasis on economic development, ethnic conflict, and environmental degradation, as well as on the changing role of the United States.

GEOG 1303 World Regional Geography

Credit: 3 | Lecture: 3 | Lab: 0

Study of major world regions with emphasis on prevailing conditions and developments, including emerging conditions and trends and the awareness of diversity of ideas and practices found in those regions. Course content may include one or more regions.

GEOG 4300 Geography of the United States and Canada

Credit: 3 | Lecture: 3 | Lab: 0

Analysis of the interrelationships among physical, cultural, economic, and political patterns of the United States and Canada.

GEOG 4301 Urban Geography

Credit: 3 | Lecture: 3 | Lab: 0

Examination of the interrelationships among physical geography and urbanization, the internal land utilization of cities, urban historical geography, and central place theory.

GEOG 4302 Geography of Latin America

Credit: 3 | Lecture: 3 | Lab: 0

Analysis of the physical, cultural, economic, and political patterns of Latin America and its relationship to other world regions.

GEOG 4303 Geography of Texas

Credit: 3 | Lecture: 3 | Lab: 0

Analysis of the diverse cultural, economic, environmental, and political patterns of Texas. Exploration of the state's regional characteristics and of the spatial relationships with areas outside the state.

GEOG 4304 Principles of Map Reading and Interpretation

Credit: 3 | Lecture: 3 | Lab: 0

A wide variety of maps including cognitive, thematic, topographic, weather and computergenerated (GIS) maps are surveyed from the points of view of their interpretations and applications. Attention will be directed also to the history of cartography, the interpretation of air photos and NASA images, and statistical graphs. No drafting background or artistic ability needed.

GEOG 4306 Service Learning

Credit: 3 | Lecture: 3 | Lab: 0

Service Learning is a course designed for students to take an active part in organized experiences that meet actual community needs combined with academic instruction, focusing on critical, reflective thinking and personal and civic responsibility. This course will involve students in activities that address community-identified needs with service integrating academic skills.

GEOG 4311 Historical Geography Credit: 3 | Lecture: 3 | Lab: 0

An introduction to historical geography as a subfield of geography with an emphasis on the evolving patterns of land use and settlement in the United States from the pre-colonial period to the present.

GEOG 4312 Human Geography

Credit: 3 | Lecture: 3 | Lab: 0

Study of the importance of human/environment relationships to a global society. Focuses on the world distribution of natural and human resources as they interrelate and provide character to places.

GEOG 4314 Teaching Geography

Credit: 3 | Lecture: 3 | Lab: 0

An exploration of best practices for teaching geography in K-12 schools. Topics include: the nature of geographic reasoning; integrating geography in the social studies curriculum; teaching strategies; and assessment.

GEOG 4315 Political Geography

Credit: 3 | Lecture: 3 | Lab: 0

The interrelationship between political activities and spatial distributions of world regions. Topics include the concept of state, political core regions, international spheres of influence and confrontations, boundaries, and contemporary issues and problems.

GEOG 4316 Economic Geography

Credit: 3 | Lecture: 3 | Lab: 0

An analysis of the world distribution of fundamental occupations and commodities.

GEOG 4317 Introduction to Globalization

Credit: 3 | Lecture: 3 | Lab: 0

Provides an introduction to globalization with a focus on the growth and intensification of global ties. Addresses resulting inequalities and tensions, as well as the new opportunities for cultural and political exchange. Topics include the impacts on government, finance, labor, culture, the environment, health, and activism.

GEOG 4321 Fundamentals of Geographic Information Systems

Credit: 3 | Lecture: 0 | Lab: 3

An interdisciplinary introduction to the fundamentals of GIS as a method of organizing, displaying, and analyzing spatial data. The course also provides an introduction to basic cartographic conventions.

GEOG 4322 Problems in Geographic Information Systems

Credit: 3 | Lecture: 3 | Lab: 0

A course designed specifically for advanced GIS candidates who will identify, interpret, analyze, and evaluate a geographical problem.

Prerequisites: GEOG 4321

GEOG 4323 Advanced Geographic Information Systems

Credit: 3 | Lecture: 0 | Lab: 3

Analytical aspects of spatial data, analysis, and modeling. Theoretical and applied aspects are examined through a series of practical exercises and assignments.

Prerequisites: GEOG 4321

GEOG 4389 Independent Study in Geography

Credit: 3 | Lecture: 0 | Lab: 0
Permission of instructor required.

GEOG 4391 Selected Topics in Geography

Credit: 3 | Lecture: 3 | Lab: 0

Identified by specific title each time course is offered. Topics vary; may be repeated for credit with permission of instructor.

GEOL Geology

GEOL 1103 Laboratory for Physical Geology

Credit: 1 | Lecture: 0 | Lab: 1

Hands-on identification of common rocks and minerals; geological processes associated with

different environments. *Corequisites: GEOL 1303*

GEOL 1104 Laboratory for Historical Geology

Credit: 1 | Lecture: 0 | Lab: 1

Laboratory activities will introduce methods used by scientists to interpret the history of life and major events in the physical development of Earth from rocks and fossils.

Corequisites: GEOL 1304

GEOL 1303 Physical Geology

Credit: 3 | Lecture: 3

An introduction to physical geology. A study of minerals, rocks, earth's structures and the geological processes that modify the earth's surface.

Corequisites: GEOL 1103

GEOL 1304 Historical Geology

Credit: 3 | Lecture: 3

A study of the geologic history of the earth. Topics include the geologic processes and principles that have shaped our planet including plate tectonics, geological age dating ancient depositional environments and the preservation of fossils.

Corequisites: GEOL 1104

GEOL 2107 Laboratory for Geological Field Methods

Credit: 1 | Lecture: 0 | Lab: 1

Mapping techniques using Global Positioning Satellite (GPS) equipment, GIS software, traditional surveying methods, geologic map production and aerial photography interpretation.

Corequisites: GEOL 3240

GEOL 2309 Mineralogy and Petrology I Credit: 3 | Lecture: 3

An introduction to minerals and rocks; with an emphasis on their physical properties, including composition, classification, identification, occurrences and uses.

Prerequisites: GEOL 1303

GEOL 3117 Laboratory for Mineralogy and Petrology

Credit: 1 | Lecture: 0 | Lab: 1

Hand specimen and optical characterization and interpretation of minerals and rocks.

GEOL 3240 Geological Field Methods

Credit: 2 | Lecture: 2

Collection of field data, interpretation and construction of geologic and topographic maps and examination of petrologic systems.

Corequisites: GEOL 2107

GEOL 3304 Planetary Geology

Credit: 3 | Lecture: 3

Study of the origins and evolution of Earth, Mercury, Venus, Mars and the Moon. Physical processes essential to understanding geology are stressed. Laboratory exercises included.

Prerequisites: GEOL 1303 or ASTR 1304.

GEOL 3305 Fundamentals of Earth Science Credit: 3 | Lecture: 3

Study of basic physical and chemical processes that form the ocean-atmospheric system.

Natural and anthropogenic factors that affect global climate change are also studied. Suitable for non-majors.

GEOL 3307 Geographical Information Systems Credit: 3 | Lecture: 3

This course covers the fundamentals of GIS including GIS terminology and architecture, GIS data structures, cartographic principles, data sources and methods of data acquisition including remote sensing, data manipulation and conversion, query techniques and spatial analysis.

GEOL 3317 Mineralogy and Petrology Credit: 3 | Lecture: 3

Formation, identification and geologic and economic significance of minerals and igneous, metamorphic and sedimentary rocks. Field Trips Required.

Prerequisites: GEOL 1303 and GEOL 1103.

GEOL 3333 Environmental Geology

Credit: 3 | Lecture: 3

Relationships between human activities and the geological environment. Includes study of natural hazards, natural resources and waste disposal in the geologic environment. Suitable for non-majors.

GEOL 4101 Laboratory for Earth Science Credit: 1 | Lecture: 0 | Lab: 1

Laboratory exercises which investigate the principles of geology, oceanography, meteorology and astronomy.

Prerequisites: GEOL 3305, GEOL 4222, GEOL 4324

GEOL 4145 Structural Geology

Credit: 1 | Lecture: 0 | Lab: 1

Laboratory for the analysis of rock the geometry, kinematics and mechanics of rock deformation as a result of tectonic processes.

GEOL 4189 Independent Study in Geology

Credit: 1 | Lecture: 1

Prerequisites: Approval of instructor, chair and

associate dean

GEOL 4191 Selected Topics in Geology

Credit: 1 | Lecture: 1

Identified by specific title each time course is

offered.

GEOL 4222 Laboratory for Geomorphology

Credit: 2 | Lecture: 0 | Lab: 2

Laboratory exercises focusing on the identification and evolution of landforms along with concepts of geologic and topographic mapping.

Corequisites: GEOL 4324

GEOL 4291 Selected Topics in Geology

Credit: 2 | Lecture: 2 | Lab: 0

Identified by specific title each time course is

offered.

GEOL 4311 Geology of Texas

Credit: 3 | Lecture: 3

Geological evolution of Texas including physiographic provinces, landforms and subsurface structure. Field trips required.

GEOL 4317 Advanced Mineralogy and Petrology

Credit: 3 | Lecture: 3

Formation, identification and geologic and economic significance of minerals and igneous, metamorphic and sedimentary rocks. Application of modern laboratory methods to the study of rocks and minerals including optical microscopy. Laboratory exercises included.

Prerequisites: CHEM 4335.

GEOL 4323 Soils in the Environment

Credit: 3 | Lecture: 3

Study of the environmental aspects of soils including expansive soils, clay minerals, soil contamination and subsurface pathways for pollutants. Laboratory and fieldwork included.

Prerequisites: Chemistry.

GEOL 4324 Geomorphology

Credit: 3 | Lecture: 3

Origin and evolution of landforms; geomorphic cycles, physiographic provinces, application of maps, aerial photographs and quantitative methods to geomorphology. Laboratory exercises included.

Prerequisites: GEOL 3304 or equivalent.

Corequisites: GEOL 4222

GEOL 4325 Sedimentation and Stratigraphy Credit: 3 | Lecture: 3

Origins, depositional environments and internal structures of sedimentary rocks. Principles of stratigraphy and bio-stratigraphy, evolution of modern stratigraphic nomenclature. Fields trips required.

Prerequisites: GEOL 3304 or equivalent.

GEOL 4326 Oceanography

Credit: 3 | Lecture: 3

The course emphasizes the application of geologic principles to the study of the marine environment and associated physical, chemical and biological processes. Topics covered include coastal processes, ocean resources, ocean management and human interaction with oceans.

Prerequisites: GEOL 3305 or equivalent.

GEOL 4327 Natural Disasters

Credit: 3 | Lecture: 3

This course studies the topics of mass wasting, flooding, earthquakes, hurricanes and others, and evaluates various natural disaster data and statistics. It provides a forum to discuss, describe and improve our understanding of human interactions with the physical environment.

GEOL 4333 Introduction to Global Climate Change

Credit: 3 | Lecture: 3

Course introduces and integrates the multidisciplinary science of scientists working to understand the behavior of the Earth's climate. The course investigates the dynamic roles of Earth's geosphere, cryosphere, hydrosphere, atmosphere, biosphere, orbit and human activities on historical, present and future climates.

GEOL 4335 Applied GIS

Credit: 3 | Lecture: 3

This course emphasizes the use of spatial analysis capabilities in Geographical Information Systems (GIS) in a range of applications. Topics covered include vector, raster and surface analysis, classification methods, interpolation techniques, watershed analysis and 3D visualization.

Prerequisites: GEOL 3307 or equivalent.

GEOL 4351 Hydrogeology

Credit: 3 | Lecture: 3

Comprehensive study of hydraulic characteristics of soil, rocks, aquifers, rivers and lakes with application to environmental and water resource planning concerns. Topics covered include hydrological cycles, aquifer testing, contaminant transports in various geological media, water resources management and others. Laboratory exercises included.

Prerequisites: GEOL 4324

GEOL 4356 Soil and Groundwater Remediation

Credit: 3 | Lecture: 3

Chemical, biological, geological principles and applications of various remediation techniques used to clean up contaminated soils and groundwater. Cross-Listed as: CHEM 4356

Prerequisites: CHEM 3333.

GEOL 4375 Petroleum Geology

Credit: 3 | Lecture: 3

This course studies the topics of the "petroleum system", origin and migration of hydrocarbons, reservoirs, traps and seals, sedimentary basins and some of the most commonly used methods in exploration and development.

Prerequisites: GEOL 4325

GEOL 4389 Independent Study in Geology

Credit: 3 | Lecture: 3

Prerequisites: Approval of instructor, chair and

associate dean

GEOL 4391 Selected Topics in Geology

Credit: 3 | Lecture: 3

Identified by specific title each time course is

offered.

HADM Healthcare Administration

HADM 3311 Foundations of Healthcare Administration Leadership

Credit: 3 | Lecture: 3 | Lab: 0

The administration of health care services and basic principles of organization for patient care including financial, manpower and systems development and control considerations in meeting health requirements at community, state, regional and national levels. This course is also an examination of leadership in healthcare administration.

HADM 3322 Financial Dimensions of Healthcare Administration I

Credit: 3 | Lecture: 3

This course is designed to teach the student the ability to understand and analyze the financial performance of healthcare organizations and various techniques associated with financial decisions required in the operation of various healthcare entities. Also, the student shall learn the various aspects of finance which determines the financial results of a healthcare organization.

HADM 3333 Healthcare Economics Credit: 3 | Lecture: 3

This course is designed to familiarize the students with the institutional features and the current trends in the rapidly changing healthcare market. Students will learn to apply the basic tools of microeconomics to issues in healthcare policy and management. Economic concepts relevant for healthcare managers will be examined such as analysis of demand and supply of healthcare goods and services; the role of health insurance and healthcare financing; market failure and the need for government intervention in healthcare markets; and initiatives to improve population health.

HADM 3351 Physician Group Practice Management

Credit: 3 | Lecture: 3

Acquaints the student with the management issues of physician group practice, including insurance billing, personnel management, marketing, patient relations, financial management, venture planning, risk management, retirement planning, physician agreements, practice valuation, managed care, Medicare/Medicaid and legal/tax/professional liability.

Prerequisites: HADM 3311 or equivalent.

HADM 4312 Healthcare Planning and Marketing Credit: 3 | Lecture: 3

A review of concepts of planning and marketing and their application to the delivery of health care, assessment of community health needs and resources planning in an ambulatory or clinical environment.

Prerequisites: HADM 3311 and MKTG 3301, or equivalents.

HADM 4313 Health Policy

Credit: 3 | Lecture: 3

Analysis of health policy making, health policy and contemporary issues in health policy with emphasis on the U.S.

HADM 4316 Medical Reimbursement

Credit: 3 | Lecture: 3

Acquaints the student with medical terminology, procedure coding, diagnosis coding, medical management and documentation.

Prerequisites: HADM 3311 or equivalent.

HADM 4317 Healthcare Ethics, Values, and Social Responsibilities

Credit: 3 | Lecture: 3

This course provides the student exposure to ethical issues in healthcare administration as well as business ethics, biomedical and research ethical issues, services to be offered, and distribution and allocation of resources. Additionally, this course will address important ethical issues and problems facing the U.S. health system.

HADM 4318 Managed Care

Credit: 3 | Lecture: 3

Acquaints the student with managed care terminology, contracting for providers and payors, utilization review, case management, direct contracting, benefits structuring and organization structure.

Prerequisites: HADM 3311 or equivalent.

HADM 4326 Hospital Operations

Credit: 3 | Lecture: 3

Concepts and methods needed to operate in a hospital. It will also provide an understanding of the impact of licensing, regulation, finance and billing, supply, operation, the different professions, risk management, compliance, engineering and physical plant, and labor relations activities in healthcare institutions, with an emphasis on organization, effectiveness, productivity and profitability.

Prerequisites: HADM 3311 or equivalent.

HADM 4332 Legal Dimensions of Healthcare Administration

Credit: 3 | Lecture: 3

Legal aspects of the doctor-patient-nurseother health professional relationships; individual, corporate and institutional liability and responsibility.

Prerequisites: HADM 3351 or equivalent.

HADM 4341 HR in Healthcare Administration

Credit: 3 | Lecture: 3

Concepts and methods needed to plan, forecast, recruit, train, develop, maintain and evaluate health manpower.

Prerequisites: HADM 3311 or equivalent

HADM 4342 Introduction to Long Term Care Administration

Credit: 3 | Lecture: 3

To develop an understanding of the Long-Term Care Industry by exploring industry trends, management strategies, governance and market influences and organizational development.

HADM 4343 Introduction to Public Health Credit: 3 | Lecture: 3

Provides the student a comprehensive introduction to the essential concepts, values, principles, and practice of public health and the relationship of public health to the complex U.S. health care delivery system. Familiarizes the student with public health practice in a number of settings including government, private sector, and community organizations. Addresses important health issues and problems facing the US public health system.

HADM 4351 Financial Dimensions of Healthcare Administration II

Credit: 3 | Lecture: 3

Analysis of the financial framework within which health care organizations and facilities operate, sources and flow of funds, cost information systems and capital budgeting.

Prerequisites: FINC 3331 and HADM 3311, or

equivalents.

HADM 4379 Internship in Healthcare Administration

Credit: 3 | Lecture: 3

Supervised field experience with an approved public or private health facility or physician clinic.

Prerequisites: HADM 4316 and approval of program

director.

HADM 4389 Independent Studies in Healthcare Administration

Credit: 3 | Lecture: 3

Independent directed study in Healthcare

Administration.

Prerequisites: Approval of instructor, Faculty Chair

and Associate Dean required.

HADM 4391 Selected Topics in Healthcare Administration

Credit: 3 | Lecture: 3

Identified by specific title each time course is offered.

HIST History

HIST 1301 United States History I Credit: 3 | Lecture: 3 | Lab: 0

A survey of the social, political, economic, cultural, and intellectual history of the United States from the pre-Columbian era to the Civil War/Reconstruction period. Includes the study of pre-Columbian, colonial, revolutionary, early national, slavery, sectionalism, and the Civil War/Reconstruction eras. Themes may include: American settlement and diversity, American culture, religion, civil and human rights, technological change, economic change, immigration and migration, and creation of the federal government.

HIST 1302 United States History II Credit: 3 | Lecture: 3 | Lab: 0

A survey of the social, political, economic, cultural, and intellectual history of the United States from the Civil War/Reconstruction era to the present. Examines industrialization, immigration, world wars, the Great Depression, Cold War and post-Cold War eras. Themes may include: American culture, religion, civil and human rights, technological change, economic change, immigration and migration, urbanization and suburbanization, the expansion of the federal government, and the study of U.S. foreign policy.

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HIST 2301 Texas History Credit: 3 | Lecture: 3 | Lab: 0

A survey of the political, social, economic, cultural, and intellectual history of Texas from the pre-Columbian era to the present.

Themes that may be addressed in Texas History include: Spanish colonization and Spanish Texas; Mexican Texas; the Republic of Texas; statehood and secession; oil, industrialization, and urbanization; civil rights; and modern Texas.

HIST 2321 World Civilization I Credit: 3 | Lecture: 3 | Lab: 0

A survey of the social, political, economic, cultural, religious, and intellectual history of the world from the emergence of human cultures through the 15th century. The course examines major cultural regions of the world in Africa, the Americas, Asia, Europe, and Oceania and their global interactions over time. Themes include the emergence of early societies, the rise of civilizations, the development of political and legal systems, religion and philosophy, economic systems, and trans-regional networks of exchange. The course emphasizes the development, interaction, and the impact of global exchange.

HIST 2322 World Civilization II Credit: 3 | Lecture: 3 | Lab: 0

A survey of the social, political, economic, cultural, religious, and intellectual history of the world from the 15th century to the present. The course examines major cultural regions of the world in Africa, the Americas, Asia, Europe, and Oceania and their global interactions over time. Themes include maritime exploration and transoceanic empires, nation/state formation and industrialization, imperialism, global conflicts and resolutions, and global economic integration. The course emphasizes the development, interaction and impact of global exchange.

HIST 3301 Ancient World

Credit: 3 | Lecture: 3 | Lab: 0

Survey of the development of early civilizations from Mesopotamia and Egypt through Greece and the fall of Rome in the West.

HIST 3303 Ancient Greece

Credit: 3 | Lecture: 3 | Lab: 0

A study of classical Greece with particular attention to cultural, social, and political developments.

HIST 3305 Ancient Rome

Credit: 3 | Lecture: 3 | Lab: 0

Intellectual, social, political, and cultural developments in the history of the ancient Roman Republic and Empire (c.300 B.C.E. to 476 C.E.).

HIST 3307 Medieval Europe

Credit: 3 | Lecture: 3 | Lab: 0

The birth and first flowering of a truly European civilization, urban society, and an agricultural economy.

HIST 3309 Renaissance and Reformation

Credit: 3 | Lecture: 3 | Lab: 0

Economic, political, intellectual, and religious developments in Europe from 1300 to 1600.

HIST 3311 Revolutionary Europe

Credit: 3 | Lecture: 3 | Lab: 0

The Scientific Revolution and Enlightenment tradition, the French and Industrial Revolutions, the birth of ideologies, and state building.

HIST 3313 Modern Europe

Credit: 3 | Lecture: 3 | Lab: 0

An examination of the major developments within European culture, politics, society, and thought since 1815.

HIST 3315 Modern Britain

Credit: 3 | Lecture: 3 | Lab: 0

The study of Britain since the Industrial Revolution: the Empire, Victorian, and 20th-century society.

HIST 3316 Historical Studies

Credit: 3 | Lecture: 3 | Lab: 0

Introduction to the History major. Focus on developing analytical skills reading both historical documents and scholarship written by historians.

HIST 3317 Introduction to Latin American

History

Credit: 3 | Lecture: 3 | Lab: 0

Survey of the history of Latin America from c. 1500 to the present. Introduces Latin American

history.

HIST 3319 Colonial Latin America

Credit: 3 | Lecture: 3 | Lab: 0

Examination of the history of Latin America during period of indigenous self-rule and colonial period.

HIST 3321 Modern Latin America

Credit: 3 | Lecture: 3 | Lab: 0

Survey of the development of Latin America from 19th century to the present.

HIST 3323 History of Mexico

Credit: 3 | Lecture: 3 | Lab: 0

Survey of the history of Mexico from Spanish conquest to the present.

HIST 3325 Colonial America

Credit: 3 | Lecture: 3 | Lab: 0

Introduction to European exploration, conquest, and colonization in North America from c. 1500 to 1763.

HIST 3327 The New American Nation

Credit: 3 | Lecture: 3 | Lab: 0

Emergence and development of a distinctly American society, politics, and national identity.

HIST 3329 Antebellum America

Credit: 3 | Lecture: 3 | Lab: 0

A study of the United States from 1820 to 1860 with special emphasis on social and political developments.

HIST 3330 Civil War and Reconstruction

Credit: 3 | Lecture: 3 | Lab: 0

The experience of Americans from the 1840s to the 1870s; their attempts to reconcile sectional

and national identities.

HIST 3333 Growth of Industrial America

Credit: 3 | Lecture: 3 | Lab: 0

Early growth of industrial capitalism and America's social and political response to it from the Civil War to World War I.

HIST 3335 U.S. in the Roaring 1920s

Credit: 3 | Lecture: 3 | Lab: 0

Examines the modern transformation of the U.S. in this dynamic era through exploration of Prohibition, urban life, consumer culture, and a booming economy headed for collapse.

HIST 3337 U.S. during the Cold War

Credit: 3 | Lecture: 3 | Lab: 0

Focus on U.S. Cold War political history and domestic upheavals of the 1960s and 1970s.

HIST 3340 Women in European History

Credit: 3 | Lecture: 3 | Lab: 0

The psychological, social, and economic forces that contributed to the subordinate status of women in European society and an examination of feminist responses. Women's Studies Course.

HIST 3341 Women in American History

Credit: 3 | Lecture: 3 | Lab: 0

Exploration of diversity within the historical gender-specific experience of women's participation in and contributions to the history of the United States. (Cross-listed with WGST 3341.)

HIST 3342 Introduction to Native American History

Credit: 3 | Lecture: 3 | Lab: 0

Survey of the history of Native Peoples in North America from the arrival of humans on the continent through the 20th century.

HIST 3345 Reel America I

Credit: 3 | Lecture: 3 | Lab: 0

Analysis of films and historical materials from the first half of the 20th century. Focus on cultural and social history. May include Women's Studies content.

HIST 3347 Reel America II

Credit: 3 | Lecture: 3 | Lab: 0

Analysis of films and historical material since 1945. Focus on cultural and social history. May include Women's Studies content.

HIST 3349 Modern Middle East

Credit: 3 | Lecture: 3 | Lab: 0

Introduction to the history of the Middle East with a focus on the modern period and critically exploring the roots and development of modern conflicts in the region.

HIST 4301 Studies in European History

Credit: 3 | Lecture: 3 | Lab: 0

Surveys important topics in European history. Topics vary; may be repeated for credit with permission of instructor.

HIST 4303 Reel Europe

Credit: 3 | Lecture: 3 | Lab: 0

Examination of the cultural movements and political developments in European film. Film analysis will use historical documents, fiction, and political manifestos to understand cultural history.

HIST 4305 Nazi Cinema and Third Reich

Credit: 3 | Lecture: 3 | Lab: 0

Exploration of the Third Reich through film and cultural artifacts and the concept of emotional engineering, juxtaposing recreation with complements of law and order.

HIST 4307 Holocaust: History, Literature, and

Film

Credit: 3 | Lecture: 3 | Lab: 0

Examination of the Holocaust from historical, psychological, and sociological perspectives.

HIST 4308 The Mexico Borderlands

Credit: 3 | Lecture: 3 | Lab: 0

Examination of Mexico's northern borderlands from Spanish settlement in the sixteenth century to the present. Explores the evolution of the region, and its impact on Mexico's development.

HIST 4309 Studies in Latin American History

Credit: 3 | Lecture: 3 | Lab: 0

Survey of important issues and regions in Latin America. Topics vary; may be repeated for credit with permission of instructor.

HIST 4310 Latin America and the United States

Credit: 3 | Lecture: 3 | Lab: 0

Explores the complex relationship between Latin America and the United States over the two centuries between 1800 and 2000.

HIST 4311 Studies in Native American History

Credit: 3 | Lecture: 3 | Lab: 0

Surveys important topics in Native American History. Topics vary; may be repeated for credit with permission of instructor.

HIST 4312 Studies in Early American History

Credit: 3 | Lecture: 3 | Lab: 0

Surveys important topics in early American history from the 15th through 18th centuries. Topics vary: may be repeated for credit with permission of instructor.

HIST 4313 Studies in U.S. History

Credit: 3 | Lecture: 3 | Lab: 0

Surveys important topics in United States history. Topics vary; may be repeated for credit with permission of instructor.

HIST 4315 Studies in African American History

Credit: 3 | Lecture: 3 | Lab: 0

Surveys important topics in African American history. Topics vary; may be repeated for credit with permission of instructor.

HIST 4318 The Salem Witchcraft Crisis

Credit: 3 | Lecture: 3 | Lab: 0

Examination of the origins, progress, and outcomes of the witchcraft crisis that overwhelmed Salem, Massachusetts in 1692.

HIST 4319 U.S. Labor History

Credit: 3 | Lecture: 3 | Lab: 0

Major changes in the U.S. economy, production technology, and social movements rooted in workplaces from the 19th century to the present.

HIST 4321 The U.S. and World War II

Credit: 3 | Lecture: 3 | Lab: 0

Survey of the role of the U.S. in World War II and exploration of the nature of combat, the home front, and cultural remembrance.

HIST 4323 The Vietnam War in Film

Credit: 3 | Lecture: 3 | Lab: 0

Examination of the Vietnam War in U.S. film. Consists of class discussion drawn from film, memoirs, popular culture, and historical background. Traces intersection of fact and fiction following the Vietnam War.

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HIST 4325 Studies in Middle Eastern History

Credit: 3 | Lecture: 3 | Lab: 0

Surveys important topics in Middle Eastern history. Topics vary; may be repeated for credit with permission of instructor.

HIST 4326 Middle East and the United States Credit: 3 | Lecture: 3 | Lab: 0

Surveys major political, socioeconomic, and cultural changes in the relationship between the Middle East and the West from the rise of Islam to the present with an emphasis on Islam's encounter with the United States.

HIST 4328 Palestinian-Israeli Conflict Credit: 3 | Lecture: 3 | Lab: 0

Exploration of the roots of the Palestinian–Israeli conflict through a comprehensive and critical survey of its historical, religious, and political background as well as elusive resolution.

HIST 4329 History of Feminism Credit: 3 | Lecture: 3 | Lab: 0

A survey of the development of those reform movements and individuals shaping the growth of feminism in the 19th- and 20th-century U.S. and the world. May focus on a particular aspect of historical feminism. Topics vary; may be repeated for credit with permission of instructor. Women's Studies Course. (Cross-listed with WGST 4329.)

HIST 4389 Independent Study in History Credit: 3 | Lecture: 0 | Lab: 0

Cannot replicate an existing HIST course. Permission of instructor required. 3 hours of credit

HIST 4391 Selected Topics in History

Credit: 3 | Lecture: 3 | Lab: 0

Identified by specific title each time course is offered. Topics vary; may be repeated for credit with permission of instructor.

HLTH Fitness and Human Performance

HLTH 2110 Team Games and Sports

Credit: 1 | Lecture: 1 | Lab: 0

Practical-based instruction, skill learning, demonstration, rules, and organizations of various team sports used to promote activity in secondary physical education classes.

HLTH 2113 Individual Games and Sports

Credit: 1 | Lecture: 1 | Lab: 0

Practical-based instruction, skill learning, demonstration, rules, and organizations of various individual sports used to promote activity in secondary physical education classes.

HLTH 2115 Innovative Games and Sports Credit: 1 | Lecture: 1 | Lab: 0

Practical-based instruction, skill learning, demonstration, rules, and organizations of unique or non-traditional games and sports used to promote activity in secondary physical education classes.

HLTH 2301 Introduction to Exercise Science Credit: 3 | Lecture: 3 | Lab: 0

An introduction to the primary and secondary disciplines within exercise and health science with particular emphasis on early career development, goals, and academic planning.

HLTH 2303 Personal Health and Fitness

Credit: 3 | Lecture: 3 | Lab: 0

Introduction to the key components of a healthy lifestyle including nutrition, exercise, behavioral modification, and physical activity. Course will include lecture and activity-based learning.

HLTH 3301 Health, Emergency Care and First Aid

Credit: 3 | Lecture: 3 | Lab: 0

Emergency care for victims of sudden illness or injury; etiology of accidents; current safety concerns and practices. Basic Red Cross and CPR competencies.

HLTH 3302 Health and Physical Education - EC-6 Survey

Credit: 3 | Lecture: 3 | Lab: 0

Overview of the health and physical education information required by core subjects EC-6 teacher. Covers specific material from the Texas State Board for Educator Certification and prepares students for certification exams.

HLTH 3303 Nutrition and Weight Management Credit: 3 | Lecture: 3 | Lab: 0

Study of relationship among nutrition, exercise, and weight control and their role in health and performance. Techniques for dietary analysis.

HLTH 3304 Principles of Physical Fitness Credit: 3 | Lecture: 3 | Lab: 0

Role of exercise in the development of health and fitness. Techniques for exercise prescription, injury prevention, strength, cardiovascular endurance, and flexibility.

HLTH 3309 Evidence-Based Practice

Credit: 3 | Lecture: 3 | Lab: 0

Introduction to the philosophy and methodology of evidence-based practice with a particular emphasis on critically appraising and integrating research findings into exercise prescriptions.

HLTH 3315 Health Promotion Programs

Credit: 3 | Lecture: 3 | Lab: 0

The purposes, methods, and objectives of health promotion programs in business and industry.

HLTH 3316 Applied Kinesiology

Credit: 3 | Lecture: 3 | Lab: 0

The study of functional anatomy with relevance to the kinesiology of exercise, exercise movements, and sports participation.

HLTH 3317 Motor Development and Learning

Credit: 3 | Lecture: 3 | Lab: 0

Fundamental principles associated with motor development, task-based/skill proficiency, and movement activities in learning environments for children and adults.

HLTH 3318 Introduction to Community Health

Credit: 3 | Lecture: 3 | Lab: 0

Provides a broad overview of community health with emphasis on governmental organizations that influence public health, epidemiology, community organization and health planning.

HLTH 3320 Health Inequalities

Credit: 3 | Lecture: 3 | Lab: 0

Focuses on racial/ethnic and socioeconomic disparities including how income, education, neighborhood conditions, access to health care, and other community factors shape health opportunities.

HLTH 4301 Physiology of Exercise

Credit: 3 | Lecture: 3 | Lab: 0

Study of the physiological bases of exercise with emphasis on the adaptation of the systems of the body to stress.

HLTH 4302 Biomechanics

Credit: 3 | Lecture: 3 | Lab: 0

Biomechanical analysis of human motion based on anatomical, physiological, and mechanical principles. Role of mechanics in human performance. A background in algebra and trigonometry is recommended.

HLTH 4305 Seminar in Sports Medicine

Credit: 3 | Lecture: 3 | Lab: 0

Approaches to injury prevention by conditioning and utilization of proper equipment. Diagnosis and rehabilitation of common sports injuries. Laboratory exercises.

HLTH 4307 Peak Performance

Credit: 3 | Lecture: 3 | Lab: 0

How to improve performance by enhancing strength, flexibility, speed, power, agility, and coordination.

HLTH 4308 Resistive Exercise: Theory and

Practice

Credit: 3 | Lecture: 3 | Lab: 0

Laboratory and lecture activities relating to appropriate training techniques for traditional, Olympic, and rehabilitative strength exercises. The development of advanced periodization models.

HLTH 4309 Research Practicum

Credit: 3 | Lecture: 0 | Lab: 0

An introduction to human subjects research, including data collection, reduction, and analysis. Students will participate in abstract and manuscript preparation.

Prerequisites: HLTH 4370, Instructor permission required.

HLTH 4311 Methods in Physical Education I

Credit: 3 | Lecture: 3 | Lab: 0

Introduction to instructional concepts, methods, and technologies in teaching and administering secondary-level physical education programs.

HLTH 4312 Methods in Physical Education II

Credit: 3 | Lecture: 3 | Lab: 0

Advanced instructional concepts, methods, and technologies in teaching and administering secondary-level physical education programs.

HLTH 4370 Undergraduate Practicum

Credit: 3 | Lecture: 0 | Lab: 0

The application of test procedures utilized for general fitness assessment testing. Permission of instructor required.

Prerequisites: HLTH 3304, HLTH 4301, HLTH 4302,

and HLTH 4305

HLTH 4379 Internship

Credit: 3 | Lecture: 0 | Lab: 0

Work-related learning experience in the application of exercise health promotion programs to teaching, clinical or research activities. Permission of instructor required. Prerequisites: Completion of or concurrent enrollment in HLTH 3303, HLTH 3304, HLTH 4301, HLTH 4302, HLTH 4305, HLTH 4308, and HLTH 4370

HLTH 4389 Independent Study in Health

Credit: 3 | Lecture: 0 | Lab: 0

Prerequisite: Approval of independent study director. Individual projects and activities in development of skills related to health.

HLTH 4391 Selected Topics in Health

Credit: 3 | Lecture: 3 | Lab: 0

Identified by specific title each time course is

offered.

HUMN Humanities

HUMN 1301 Humanities

Credit: 3 | Lecture: 3 | Lab: 0

An interdisciplinary, multi-perspective assessment of cultural, political, philosophical, and aesthetic factors critical to the formulation of values and the historical development of the individual and of society.

HUMN 3350 Art 1900-1950

Credit: 3 | Lecture: 3 | Lab: 0

This course examines the art of Europe, the United States, and Latin America in the first half of the twentieth century. Significant topics include the birth and growth of modernism, the impact of the world wars on the artistic communities of the regions studied, and major movements such as Cubism, Dadaism, Fauvism, Impressionism, and Surrealism.

HUMN 3351 Art 1950-Present

Credit: 3 | Lecture: 3 | Lab: 0

This course examines the art of Europe, the United States, and Latin America in the first half of the twentieth century. Significant topics include art in the aftermath of World War II, conceptualism, performance art, video art, feminist art, and the contemporary art market. (Cross-listed with ARTS 3351.)

HUMN 3355 Latin American Art of the Twentieth Century

Credit: 3 | Lecture: 3 | Lab: 0

This course will examine the art of 20th century Latin America through a series of major modern art centers, including Mexico City, Havana, Buenos Aires, Rio de Janeiro, Bogota, and Caracas. (Cross-listed with ARTS 3355.)

HUMN 3356 Mexican Art, 1500-Present

Credit: 3 | Lecture: 3 | Lab: 0

This course will explore the history of visual art in Mexico beginning with the period of encounter between native populations of that region of the Americas and the European explorers who arrived in the Americas in the late 15th century and continuing through the colonial, independence, and modern era. (Crosslisted with ARTS 3356.)

HUMN 3357 History and Theory of Photography

Credit: 3 | Lecture: 3 | Lab: 0

Study of history and function of photography from its development in the fine arts to present-day significance of mechanical and digital reproduction. (Cross-listed with ARTS 3357.)

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HUMN 3374 Critical Inquiry Credit: 3 | Lecture: 3 | Lab: 0

Students will engage in critical research in contemporary humanities that attends to diverse scholarship on race, class, gender, and ethnicity. Students will emerge from course equipped with current knowledge on theorizing selfhood, community, and/or culture.

HUMN 3375 Ideas in Transition Credit: 3 | Lecture: 3 | Lab: 0

This class traces an idea's shifting significance throughout history. Themes will be studies using philosophic, literary, and artistic works. Themes may include soul-brain-machine, sex and love, gender, justice, economy and society, technology, identity and community. Topics vary; may be repeated for credit in the same or subsequent semesters. Different topics might be counted toward different concentrations for HUMN students. Refer to the Concentration areas in the Humanities B.A. section of the catalog.

HUMN 4195 Cooperative Education

Credit: 1 | Lecture: 0 | Lab: 0

Educational paid work assignment by a student in the field of his or her career interest and course of study. Academic supervision and a report required.

HUMN 4308 Perspectives in Women's and Gender Studies

Credit: 3 | Lecture: 3 | Lab: 0

General information on the wide range of issues related to the status of women. Women's Studies Course. (Cross-listed with PSYC 4308 and SOCI 4308.)

HUMN 4312 Art of Ancient Iraq and the Near East

Credit: 3 | Lecture: 3 | Lab: 0

The art, history, and culture of Ancient Iraq and the Near East. Topics include prehistoric art, state formation, ideology, and empire. (Crosslisted with ARTS 4312.)

HUMN 4315 Art of the Ancient Greek World

Credit: 3 | Lecture: 3 | Lab: 0

The art, history, and culture of the ancient Greek world from the Bronze Age through the Hellenistic period. Topics include appropriation, cultural heritage, and gender studies. (Crosslisted with ARTS 4315.)

HUMN 4322 Roman Art

Credit: 3 | Lecture: 3 | Lab: 0

The art, history, and culture of the ancient Roman world from the foundation of Rome (753 B.C.E.) through Constantine (337 C.E.). An investigation of architecture, sculpture, painting and other arts, especially as they relate to the social and political developments of ancient Italy and the Mediterranean. (Cross-listed with ARTS 4322.)

HUMN 4326 Studies in Film Credit: 3 | Lecture: 3 | Lab: 0

Overview of film texts from a topical, generic, or historical perspective. Includes introduction to theory. Topics vary; may be repeated for credit with permission of instructor.

HUMN 4364 Museum Studies Credit: 3 | Lecture: 3 | Lab: 0

This course introduces students to the theory and operations of fine arts museums, including strategies of display, collection management, accessions, and public relations. The course will include visits to local gallery and museum spaces. (Cross-listed with ARTS 4364.)

HUMN 4366 Propaganda and Persuasive Images Credit: 3 | Lecture: 3 | Lab: 0

This course examines the theory and use of propagandistic and persuasive imagery with particular focus on the twentieth century. This propaganda of World War II will comprise a major unit, as well study of modern photomanipulation and advertising strategies. (Cross-listed with ARTS 4366.)

HUMN 4372 Seminar in Women's Studies Credit: 3 | Lecture: 3 | Lab: 0

An advanced course in Women's Studies, designed to acquaint the student with contemporary issues in feminist scholarship across the disciplines. Prerequisite: Any previous. Women's Studies course. (Cross-listed with HUMN 5732, PSYC 4372, and PSYC 5732.)

Prerequisites: Any previous Women's Studies course.

HUMN 4375 Senior Seminar

Credit: 3 | Lecture: 3 | Lab: 0
Required capstone for Humanities majors.
Encourages students to synthesize their
liberal arts experiences. Seminar focuses
interdisciplinary studies around a single th

interdisciplinary studies around a single theme or topic. Topics vary; may be repeated for credit. Prerequisites: Completion of WRIT 3307 and 2 upper-level HUMN classes (including HUMN, PHIL, and ARTS (art history)), one of which should be HUMN 3375 Ideas in Transition.

HUMN 4379 Internship

Credit: 3 | Lecture: 0 | Lab: 0

A supervised onsite internship in an approved setting. Permission of instructor required.

HUMN 4389 Independent Study in Humanities

Credit: 3 | Lecture: 0 | Lab: 0
Permission of instructor required.

HUMN 4391 Selected Topics in Humanities

Credit: 3 | Lecture: 3 | Lab: 0

Identified by a specific title each time the course is offered. Topics vary; may be repeated for credit with permission of instructor.

INDH Industrial Hygiene and Safety

INDH 3304 Safety, Health and Liability in Schools

Credit: 3 | Lecture: 3

Safety and health principles and practice as applied to schools. Includes hazard recognition and control infield, laboratory and classroom environments, emergency response, regulations, guidelines and teacher liability. Science majors may use only as an unrestricted elective.

INDH 3311 Industrial Health and Hygiene Credit: 3 | Lecture: 3

General review of industrial health. Basic principles of industrial hygiene investigation. Physical and chemical hazards in the industrial workplace. Workplace environmental control.

INDH 3332 Principles of Professional Safety Credit: 3 | Lecture: 3

Includes how to organize and administer effective safety programs. Looks at future trends for business and industry and what changes the safety professional must keep abreast of in economic, environmental, regulatory and technical advances affecting their field.

INDH 3333 Environmental Safety and Health Credit: 3 | Lecture: 3

Principles and concepts of environmental health and safety including essential information related to the recognition, evaluation and control of occupational and environmental hazards.

INDH 3340 Techniques of Safety Engineering and Analysis

Credit: 3 | Lecture: 3

Practical application of basic engineering skills in the identification, evaluation and control of industrial hazards. Emphasis is on effective solution to safety design and operational problems and application of the Safety Precedence Sequence in the selection of hazard control measures.

INDH 4195 Cooperative Education Work Term Credit: 1 | Lecture: 1

Educational paid work assignment by a student in the field of career interest and course of study. A technical report will be required at the end of the semester. (Specific requirements are noted in the Cooperative Education Catalog description.) Prerequisites: Approved Candidate Plan of Study, completed cooperative education file and approval of associate dean and Director of Cooperative Education.

INDH 4311 Noise and Hearing Conservation Credit: 3 | Lecture: 3

Anatomy and physiology of the human ear; sound propagation and the mechanism of hearing loss; federal and state noise regulations; noise measurement and analysis; establishing a hearing conservation and noise control program in industry.

INDH 4313 Industrial Ventilation

Credit: 3 | Lecture: 3

General principles of ventilation, dilution ventilation, comfort ventilation; heat-cold stress control, hood design, air contaminant control; testing ventilation systems and industrial ventilation guidelines.

INDH 4314 Personal Protective Equipment Credit: 3 | Lecture: 3

Basic design and use of commonly used protective equipment in industry with emphasis on respiratory protection principles including approaches to training and instruction for proper usage.

INDH 4315 Industrial Radiological Health Credit: 3 | Lecture: 3

Non-calculus based presentation of the principles of ionizing radiation and non-ionizing intended to provide basic competency in radiation protection through an understanding of the nature, uses, health effects, measurement and control of radiation.

INDH 4316 System Safety and Accident Investigation

Credit: 3 | Lecture: 3

The course handles applications of system safety techniques in the industrial work environment and accident investigation theory and practice. Review of loss control management concepts, risk management, S & H training acceptance of risk, identification and initiation of corrective actions, pre-accident planning, emergency response, collection of evidence, analysis of information, investigation, organization, management and report writing.

INDH 4321 Ergonomics, Human Factors and Workspace Design

Credit: 3 | Lecture: 3

Ergonomics. Use of biological and engineering principles to design a safe and efficient workplace environment including biomechanics, anthropometry, heat and cold stress, vibration, pressure, illumination, work station and tool design and the presentation of visual, auditory and other sensory forms of information.

INDH 4322 Industrial Hygiene Sampling and Analysis

Credit: 3 | Lecture: 3

Sampling and analysis for common occupational hazards including principles of calibration, laboratory and field management techniques. Laboratory included.

INDH 4323 Hazardous Materials and Emergency Management

Credit: 3 | Lecture: 3

This course studies hazardous material storage, handling, effects and use as well as the most effective ways to respond to hurricanes, terrorist attacks and/or hazmat spills. It provides information to students as to how to deal with officials, how to establish command & control, coordinate communications, evacuate people and perform clean up. The course also includes emergency management, preparedness, local, state and federal government emergency management; as well as disaster relief organizations.

INDH 4324 Fire Safety Engineering Credit: 3 | Lecture: 3

This course studies fire science, causes, prevention, inspection, etc. This includes purpose; definition; fire prevention activities, extinguishment, detection, hazards, fire behavior, fire causes, types of construction including structural features, flame spread, occupancy and fire load; inspection techniques, conducting inspections.

INDH 4333 Construction and General Industry Safety

Credit: 3 | Lecture: 3

This covers safety and health principles in the construction and general industries as well as OSHA policies, procedures and standards. Special emphasis is placed on those areas that are most hazardous in construction and general industry.

INDH 4341 Advanced Studies in Industrial Hygiene and Safety

Credit: 3 | Lecture: 3

Approval of faculty adviser and associate dean. The selection, study and formal presentation of topics in Industrial Hygiene and Safety based on advanced field, laboratory, library research study, supervised work experience in an approved industrial firm or government agency or educational work assignments. Written and oral reports required.

Prerequisites: 15 hours of upper-level credit.

INDH 4379 Internship in Industrial Hygiene and Safety

Credit: 3 | Lecture: 3

Supervised work experience in an approved industrial firm or government agency. Written and oral reports required.

Prerequisites: 15 hours of upper-level credit; Approval of faculty adviser and associate dean.

INDH 4389 Independent Study in Industrial Hygiene and Safety

Credit: 3 | Lecture: 3

Prerequisites: Approval of instructor, chair and

associate dean.

INDH 4391 Selected Topics in Industrial Hygiene and Safety

Credit: 3 | Lecture: 3

Identified by specific title each time course is

offered.

INST Instructional Technology

INST 3313 Survey of Instructional Technologies Credit: 3 | Lecture: 3 | Lab: 0

Combines hands-on lab assignments and discussions through a student-centered approach. Students work with faculty to identify technology-related learning requirements, learning strategies and assessment criteria based on students' prior skills and interests. Students gain experience in the application of productivity tools, educational software, presentation graphics, multimedia and telecommunication technologies.

Prerequisites: Basic computer literacy.

INST 4355 eLearning

Credit: 3 | Lecture: 3 | Lab: 0

Apply internet knowledge and skills to design and develop learning environments on the Internet. Apply current researchbased strategies for effective web-enhanced learning and the assessment of that learning. Demonstrate safe, legal and healthy use of the Internet.

Prerequisites: Basic computer literacy.

INST 4357 Multimedia for Instruction Credit: 3 | Lecture: 3 | Lab: 0

Introduces students to topics of multimedia for the web. Students will learn how to plan a multimedia web site and design the user interface. Focus is on five multimedia elements: text, graphics, animation, sound, and video. Participants will design multimedia elements appropriate for integration in online learning environments.

INST 4365 Web Development Credit: 3 | Lecture: 3 | Lab: 0

Examines the design, development and distribution of electronic documents.

Participants will learn the basic components of how web documents are created, various design approaches for a variety of user-friendly tools for web page development, how to include eye-catching graphics, interactive multimedia components and sophisticated programming in a web page.

Prerequisites: Basic computer literacy.

INST 4389 Independent Study in Instructional Technology

Credit: 3 | Lecture: 3 | Lab: 0

Prerequisites: Approval of instructor and associate

dean.

INST 4391 Selected Topics in Instructional Technology

Credit: 3 | Lecture: 3 | Lab: 0

Identified by title each time course is offered.

ISAM Information Systems Administration and Management

ISAM 1305 Business Computer Applications Credit: 3 | Lecture: 3

Computer terminology, hardware, software, operating systems and information systems relating to the business environment. Enbsp; The main focus of this course is on business applications of software, including word processing, spreadsheets, databases, presentation graphics and business-oriented utilization of the Internet.

ISAM 3303 Information Systems for Management

Credit: 3 | Lecture: 3

Fundamentals of information systems to assist management in the operation and control of complex organizations. Includes IS for decision making and problem solving, IS for competitive advantage, enterprise resource planning systems and database processing. Course contains numerous hands-on, business-oriented IS projects.

Prerequisites: ISAM 1305 or equivalent.

ISAM 3304 Introduction to Business Applications Programming

Credit: 3 | Lecture: 3

This course covers fundamental concepts used in the design and development of business applications. It describes program methodologies, control techniques and the development of programs using a high-level business-oriented programming language. Includes numerous hands-on assignments.

ISAM 3314 Applications Development with Java Credit: 3 | Lecture: 3

The course covers the development of Java applications/applets running in the Java Runtime Environment. It demonstrates important object-oriented programming concepts such as data abstraction, encapsulation, polymorphism and inheritance. Includes numerous hands-on assignments.

Prerequisites: ISAM 3304 or equivalent.

ISAM 3331 Introduction to Business Database Application Development

Lecture: 0 | Lab: 1

Overview of database concepts and techniques (database models, modeling techniques, normalization, etc.) used in the design of business databases. The course covers development, manipulation and maintenance of a business database (such as sales, inventory, customer, employee, etc.) with a relational database management system. Includes numerous hands-on class assignments.

Prerequisites: ISAM 3303 or equivalent. Corequisites: ISAM 3303 or equivalent

ISAM 3333 Applications Development with C# Credit: 3 | Lecture: 3

The course covers graphical user interface concepts and programming constructs related to object-oriented programming, exception handling, forms, multidimensional arrays, and data extrapolation. Includes numerous hands-on assignments.

Prerequisites: ISAM 3304 or equivalent.

ISAM 4331 Introduction to Business Internet Applications Development

Credit: 3 | Lecture: 3

The role of Internet, Intranets, and Internet tools in business; design and development of business-oriented Web applications using modern Web technology standards, languages, and tools. Includes numerous hands-on assignments.

Prerequisites: ISAM 3304 or equivalent.

ISAM 4332 Advanced Business Internet Applications Development

Credit: 3 | Lecture: 3

An advanced-level course on the design and development of Internet applications using modern Web technology standards, languages, and tools. Topics include clientside scripts, server-side processing, Web forms processing, use of databases, and dynamic Web applications. Includes numerous hands-on assignments. The course includes completion of a professional certification in Internet Application Development.

Prerequisites: ISAM 3331, 3332, 4331 or equivalents.

ISAM 4360 Advanced Business Spreadsheet Applications Development

Lecture: 3

This course covers advanced topics related to the design, development and maintenance of a business spreadsheet application. These topics include the following: advanced techniques for working with formulas, functions and formatting; what-if analysis, creating charts and working with multiple worksheets; creating, sorting and querying a table; working with SmartArt and Images, etc. Includes numerous hands-on assignments. Coursework requirements include Microsoft Excel certification exam.

Prerequisites: ISAM 3303 or equivalent.

ISAM 4362 Advanced Business Database Application Development

Lecture: 0 | Lab: 1

This course covers advanced topics related to the design, development and maintenance of a business database application. Also covered are advanced techniques for query formulation, information retrieval and report generation. Includes numerous hands-on assignments. Coursework requirements include Microsoft MySQL certification exam.

Prerequisites: ISAM 3331 or equivalent.

ISAM 4365 Analysis and Design of Information Systems

Credit: 3 | Lecture: 3

This course covers the systems development life cycle, systems development methodologies, systems requirement analysis, user interface designs, program design methodologies, and system architecture. Includes hands-on assignments using computer-aided software engineering and project management tools. *Prerequisites: ISAM 3331 or equivalent.*

ISAM 4366 Introduction to Computer Networks Management

Credit: 3 | Lecture: 3

The course covers network hardware, software, protocols and administration. It includes internetworking, TCP/IP protocols, IP addressing, routing, and network switching. Includes numerous hands-on assignments. *Prerequisites: ISAM 3303 or equivalent.*

ISAM 4367 Advanced Computer Network Protocols

Credit: 3 | Lecture: 3

This course covers advanced networking topics such as VLANs, spanning tree protocol, routing protocols, packet filtering, address translation, the new generation of IP addressing, wireless networks, and network design and implementation. Includes numerous hands-on lab experiments.

Prerequisites: ISAM 4366 or equivalent.

ISAM 4379 Internship in Management Information Systems

Credit: 3 | Lecture: 3

Supervised work experience related to management information systems with an approved business, industrial firm, or governmental agency; written and oral reports as required.

Prerequisites: Bachelor's degree candidacy, completion of at least 18 hours of BS in MIS required computing courses, and approval of academic adviser, faculty chair and associate dean.

ISAM 4389 Independent Studies in Management Information Systems

Credit: 3 | Lecture: 3

Independent directed study in Management Information Systems.

Prerequisites: Approval of instructor, Faculty Chair and Associate Dean required.

ISAM 4391 Selected Topics in Management Information Systems

Credit: 3 | Lecture: 3

Identified by specific title each time course is offered.

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ITEC Information Technology

ITEC 1310 Introduction to Information Technology

Credit: 3 | Lecture: 3 | Lab: 0

This course is an introduction to the concepts and technologies used in the field of Information Technology and ethical issues related to the impact of Information Technology. This class will also prepare students for CompTIA A+certification exams.

ITEC 2313 Scripting I

Credit: 3 | Lecture: 3 | Lab: 0

This course will introduce practical script programming for computer programming tasks, data manipulation and decision support. Students will be introduced to the structure of scripting languages with emphasis on Python. Laboratory instruction.

ITEC 2351 Web Fundamentals Credit: 3 | Lecture: 3 | Lab: 0

Introduces the basic languages and tools involved in web publishing. Topics covered will include core publishing technologies such as HTML5, CSS3 and JavaScript. This course also covers the use of Web technology in solving IT problems. Students will build and publish a Web site. The technologies used will include HTML5, CSS5, and JavaScript. Laboratory instruction.

ITEC 2381 Forensics Fundamentals

Credit: 3 | Lecture: 3 | Lab: 0

Introduces the study of digital forensics. Coursework focuses on obtaining forensics evidence, validating image file integrity, data storage methods, deleted file recovery methods, imaging drives, and basic evidence analysis. Laboratory instruction.

ITEC 3312 Scripting II Credit: 3 | Lecture: 3

This course will build on basic script programming knowledge. Topics will include: problem solving using built-in functions and lambdas; data structures such as lists, tuples, sets, and dictionaries; comprehensions and generators; visualization; and processing data using databases and files including binary, text, and CSV files, etc. Students will work with Python. Laboratory instruction.

Prerequisites: ITEC 2312, CSCI 1470 or instructor approval.

ITEC 3335 Database Development

Credit: 3 | Lecture: 3

Introduces database theory, design and implementation. Topics covered include business data modeling using the entity-relationship (ER) model, logical database design using the relational data model and database querying using structured query language (SQL). Database design issues are studied in the context of solving business problems. Laboratory instruction.

Corequisites: ITEC 3312.

ITEC 3351 Web Fundamentals

Credit: 3 | Lecture: 3

Introduces the basic languages and tools involved in web publishing. Topics covered will include core publishing technologies such as HTML, CSS and Java Script. This course also covers the use of Web technology in solving IT problems, how Web pages and sites function and a basic understanding of graphic production. Students will build and publish a web site. The technologies used will include HTML, CSS, Java Script, Adobe Dreamweaver, Adobe Photoshop and Adobe Flash. Laboratory instruction.

ITEC 3365 Network Fundamentals Lecture: 3

Introduces the architecture, structure, functions, components and models of the Internet and computer networks. Describes and details the OSI and TCP/IP models. The principles of IP addressing and fundamentals of Ethernet, media and operations are introduced. This course also covers LAN topologies and basic configuration of routers and switches. Laboratory instruction.

ITEC 3381 Forensics Fundamentals Credit: 3 | Lecture: 3

Sources of computer forensics evidence, search and seizure processing, data storage methods, primary partitions and extended partitions, file allocation tables, deleted file recovery methods, accessing drives with write blocking technology, imaging drives, validating image file integrity and basic evidence analysis. Laboratory instruction.

ITEC 3388 Cyber Security I Credit: 3 | Lecture: 3

This course is the first of a two-course sequence which will cover the ten different security areas (a.k.a. domains) considered important to becoming an information systems security professional. This course will introduce an overview of the fundamental technology, principles and practices of security operations. Students will be introduced to the concepts of information security, risk management, security governance, identification, methods and technologies, intrusion detection systems. Students will also learn about the principles of security architecture and design, and physical and environmental security. They will also be introduced to the notions of telecommunication and network security.

Prerequisites: CENG 3331 or CINF 3331 or ITEC 3365 or CISC 1471.

ITEC 4189 Independent Study in Information Technology

Credit: 1 | Lecture: 1

Prerequisites: Approval of instructor, chair and associate dean.

ITEC 4195 Cooperative Education Work Term Credit: 1 | Lecture: 1

Educational paid work assignment by a student in the field of career interest and course of study. A technical report will be required at the end of the semester. (Specific requirements are noted in the Cooperative Education Catalog description). Prerequisites: Approved Candidate Plan of Study, completed cooperative education file and approval of associate dean and Director of Cooperative Education.

ITEC 4313 Emerging Information Technology Credit: 3 | Lecture: 3

Today's business environment is often called the information age and knowledge economy. Today IT is not just the back office enabler rather is of strategic importance to any enterprise. In order to meet the challenges of this new environment this course provides an introduction to strategic management of information systems in light of the emerging technologies and their usage in the enterprise environment.

ITEC 4335 Database Administration Credit: 3 | Lecture: 3

This course focuses on providing coverage of DBA tasks including creating database environments, performance, data integrity, security, backup/recovery, data and storage management, tools and other related concepts fundamental to administration of databases. Laboratory instruction.

Prerequisites: ITEC 3335.

ITEC 4342 Information Technology Project Management

Credit: 3 | Lecture: 3

The course examines the defining characteristics of technology-oriented projects, especially involving the development of software intensive systems, and introduces students to a variety of project management techniques that can be applied in a technology-oriented project context. Project management issues including estimation, risk-assessment, quality management, monitoring and control will be discussed. While technology-intensive projects are similar in some respects to other types of projects, they also pose unique challenges for the managers and organizations that undertake them. Technology-intensive project management is particularly challenging because of several factors including: (1) the rapid pace of technological changes occurring in the IS and IT fields, (2) the invisible nature of software, (3) the ever-present pressure to add new features and functionality to systems, and (4) the difficulty of managing the organizational changes that accompany most technology implementations. This course gives students an understanding of the most common processes, tools, techniques, and theories that are necessary to manage technology-intensive projects.

Prerequisites: ITEC 3312 or instructor approval.

ITEC 4351 Web Design Credit: 3 | Lecture: 3

This course will cover advanced Web publishing skills as well as introduce broader publishing topics relevant to publishers, developers, designers and webmasters. The course will also cover topics such as issues related to the practice of user experience. Students will also learn fundamental webmaster topics such as web analytic, search engine optimization and other web tools. The technologies used will include HTML5, CSS3, JavaScript and jQuery. Laboratory instruction.

Prerequisites: ITEC 2351

ITEC 4352 Backend Web Development Credit: 3 | Lecture: 3

The course will focus on the server-side of Web development and the building dynamic database-driven web sites. Students will learn how to structure content for Websites in a database and how to retrieve that data and manipulate and place it in pages. Laboratory instruction.

Prerequisites: ITEC 3335, ITEC 4351.

ITEC 4365 Network Administration Credit: 3 | Lecture: 3

Describes the architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch. By the end of this course, students will not only be able to configure and troubleshoot routers and switches but also will be able to resolve common issues with RIPv1, RIPv2, single area and multi area OSPF, virtual LANs and Inter-VLAN routing in both IPv4 and IPv6 networks. Laboratory Instruction.

Prerequisites: ITEC 3365.

ITEC 4366 Computer Security and Disaster Recovery

Credit: 3 | Lecture: 3

This course covers general concepts of information systems security and disaster recovery. Topics covered include physical and logical security threats, security vulnerabilities, risk analysis, types of attacks, access control and user authentication, firewalls, database security, intrusion prevention systems and intrusion detection systems, and network security concepts (wired and wireless). This course also provides a managerial perspective on computer security and prepares students for managing information systems security within organizations. Various organizational security policies and mechanisms are discussed. Students are taught to identify critical business systems and functions, data storage and recovery sites, and to develop and test a disaster recovery plan.

ITEC 4379 Internship in Information Technology

Credit: 3 | Lecture: 3

Supervised work experience each week in an approved Information Technology field.

Prerequisites: Approval of faculty chair and associate dean required.

ITEC 4381 Computer Forensics Lecture: 3

This course examines the various media and strategies of storing information. Students will learn different aspects of computer crime and ways in which to protect, uncover and understand digital evidence. Students will gain experience using hardware and software tools to perform investigations. Laboratory instruction. *Prerequisites: CSCI 1471 or CSCI 1370 or ITEC 2381.*

ITEC 4382 Registry & Internet Forensics Lecture: 3

Introduces the registry structure and focuses on creating preliminary reports, searching for evidence in the NTuser.dat, SAM, SYSTEM, SOFTWARE and SECURITY artifacts to analyze user behavior on the system. Laboratory instruction.

Prerequisites: ITEC 2381 or instructor approval.

ITEC 4383 Cyber Security II Credit: 3 | Lecture: 3

This course is the second of a two-course sequence which will cover the ten different security areas (a.k.a. domains) considered important to becoming an information systems security professional. It presents an overview of technology, principles and practices of security operations. The students will be introduced to the concepts of Cryptography, public key infrastructure, quantum cryptography, secure protocols, different attack types, business continuity planning and management. The students will also learn about secure software development approaches, database concepts and security issues, malware types and attacks. They will be introduced to policy and procedure related to- evidence collection, incident handling etc.

Prerequisites: ITEC 3388.

ITEC 4388 Senior Project in Information Technology

Credit: 3 | Lecture: 3

May be taken only during the final semester before graduation. Registration is restricted to students with an approved Candidate Plan of Study. Students design and implement a solution to a realistic IT project. Emphasis will be on practical experience, professional behavior, ethics and teamwork. Students prepare written reports and give oral presentations.

ITEC 4389 Independent Study in Information Technology

Credit: 3 | Lecture: 3

Prerequisites: Approval of instructor, chair and

associate dean.

LEGL Legal Studies

LEGL 2301 Legal Environment of Business Credit: 3 | Lecture: 3

Major content areas include beneral principles of law and the legal system, contracts, sales, commercial paper, bank-customer relations, agency and property.

LEGL 3157 Internet Legal Research Credit: 3 | Lecture: 3

This course concentrates on Web browsers and Web search and indexing tools and will focus on the content of primary and secondary materials on the Internet.

LEGL 3307 Legal Writing and Appellate Process Credit: 3 | Lecture: 3

Principles of legal drafting and case analysis; preparation of legal documents and rules of appellate process.

Prerequisites: LEGL 3351 or equivalent

LEGL 3313 Introduction to Law and the American Legal System

Credit: 3 | Lecture: 3

Overview of the American legal system and the structure of law and legal institutions in the United States.

LEGL 3321 Logic Credit: 3 | Lecture: 3

An investigation of traditional approaches to correct and incorrect reasoning.

LEGL 3342 American System of Trial By Jury Credit: 3 | Lecture: 3

This course provides an analysis of process of trial by jury from the initial examination of the jury panel through closing arguments. Emphasis will be placed on the preparation of a case to be tried in small claims court.

LEGL 3351 Legal Research

Credit: 3 | Lecture: 3

The law library, research, briefing and case preparation through the use of digests, encyclopedias and other research sources.

LEGL 3353 Introduction to the Texas Rules of Civil Procedure

Credit: 3 | Lecture: 3

This course will cover the rules of civil procedure that govern the drafting of the plaintiff's original petition through the drafting of discovery.

LEGL 4177 State Bar - CLE

Credit: 3 | Lecture: 3

Students enrolled in this course must register for and attend at their own expense a State Bar of Texas sponsored or sanctioned continuing legal education program approved by the course instructor. Research and writing assignments must be completed following attendance at the approved CLE course.

LEGL 4189 Independent Studies in Legal Studies Credit: 3 | Lecture: 3

Independent directed study in Legal Studies. *Prerequisites: Approval of instructor, Faculty Chair and Associate Dean required.*

LEGL 4324 The U.S. Constitution and the Bill of Rights

Credit: 3 | Lecture: 3

Study of the evolution of the U.S. Constitution from the passage of the Declaration of Independence to the present.

LEGL 4325 Legal Concepts for Human Resource Professionals

Credit: 3 | Lecture: 3

This course provides students with a basic understanding of the federal laws governing the employee/employer relationship with emphasis on non-discrimination, wage and hour laws, and employee benefits.

LEGL 4352 Family Law and Procedure

Credit: 3 | Lecture: 3

Study of the fundamental principles of the law of family relations, divorce, adoption, custody, marriage, juvenile, etc.; includes analysis of family law procedures, appropriate forms and pleadings.

LEGL 4353 Dispute Resolution

Credit: 3 | Lecture: 3

Analysis of the various methods of resolving disputes between citizens outside the traditional adversarial system.

LEGL 4354 Property Transactions

Credit: 3 | Lecture: 3

Study of the fundamental principles and procedures of law related to the acquisition, control and disposition of property.

LEGL 4355 Criminal Law and Procedure Credit: 3 | Lecture: 3

This course will introduce students to the substantive law of crime and punishment, the law of arrest through trial, and conviction and the constitutional protection involved in the process.

LEGL 4356 Torts

Credit: 3 | Lecture: 3

Study of the principles of the law of torts focusing on learning the causes of action, the elements of each and how to recognize the causes of action given certain facts.

LEGL 4359 Wills, Probate and Estate Administration

Credit: 3 | Lecture: 3

This course is designed to introduce the broad subject of estate planning, including basic will preparation and the drafting of statutory form powers of attorney, medical directives and medical powers of attorney. The various forms of estate administration in Texas will be studied.

LEGL 4361 Texas Consumer Law

Credit: 3 | Lecture: 3

An analysis of the principle consumer protection statues in Texas and related federal laws. Special emphasis will be placed on The Texas Deceptive Trade Practices Act.

LEGL 4362 Elder Law

Credit: 3 | Lecture: 3

This course will focus on a variety of legal issues related to the aging of America. The Texas law of guardianship will be reviewed in depth including the state specific certification requirements to become a registered professional guardian.

LEGL 4363 Information and Document Assembly Systems for the Legal Environment

Credit: 3 | Lecture: 3

Fundamentals of the operation of document assembly programs using Pro-Doc.

LEGL 4365 Mock Trial

Lecture: 3

Students enrolled in this course will study and execute a complete mock trial based on an assigned civil or criminal case file published by the National Institute of Trial Advocacy. Students will also be required to perform a mock trial demonstration as part of the Annual Student Conference for Research and Creative Arts. *Prerequisites: LEGL* 3342 or equivalent.

LEGL 4368 Seminar on the U.S. Constitution and Bill of Rights

Credit: 3 | Lecture: 3

Field experience involving traveling to the National Constitution Center in Philadelphia to meet and study with the Center's staff of constitutional experts and to explore the historic sites such as Independence Hall.

LEGL 4375 Professional Development for Legal Studies Students

Credit: 3 | Lecture: 3 | Lab: 0

This course is intended to be capstone course in the legal studies program to provide students with an understanding of the practice of law in Texas as well as non-traditional opportunities for student with a legal education; a final project will be assigned

Prerequisites: Course is taken in the last or next to the last semester in the legal studies program

LEGL 4377 State Bar - CLE

Credit: 3 | Lecture: 3

Students enrolled in this course must register for and attend at their own expense a State Bar of Texas sponsored or sanctioned continuing legal education program approved by the course instructor. Research and writing assignments must be completed following attendance at the approved CLE course.

LEGL 4379 Internship in Legal Studies Credit: 3 | Lecture: 3

Supervised field experience with an approved agency or office. Written and oral reports required.

Prerequisites: Approval of faculty adviser and program director.

LEGL 4389 Independent Studies in Legal Studies Credit: 3 | Lecture: 3

Independent directed study in Legal Studies. Prerequisites: Approval of instructor, Faculty Chair and Associate Dean required.

LEGL 4391 Selected Topics in Legal Studies Credit: 3 | Lecture: 3

Identified by specific title each time course is offered.

LEGL 5131 Legal Concepts for the Business Professional

Credit: 3 | Lecture: 3 | Lab: 0

This course examines the legal implications of business transactions and will be of particular value to students seeking degrees in accounting, finance and business. Explores legal issues emphasized by the AICPA and other national professional organizations.

LITR Literature

LITR 2321 British Literature

Credit: 3 | Lecture: 3 | Lab: 0

A survey of the development of British literature from the Anglo-Saxon period to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical, linguistic, and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

Prerequisites: WRIT 1301

LITR 2326 American Literature

Credit: 3 | Lecture: 3 | Lab: 0

A survey of American literature from the period of exploration and settlement to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical, linguistic, and cultural contexts. Texts will be selected from a diverse group of authors for what they reflect and reveal about the evolving American experience and character.

Prerequisites: WRIT 1301

LITR 2341 Literature and Experience

Credit: 3 | Lecture: 3 | Lab: 0

The study of one of more literary genres including poetry, fiction, drama, and film.

Prerequisites: WRIT 1301

LITR 2371 Introduction to Creative Writing

Credit: 3 | Lecture: 3 | Lab: 0

Instruction and practical experience in techniques and genres of imaginative writing. May include lyric poetry, short fiction, drama, and/or creative nonfiction. Fulfills Core Creative Arts requirement.

Prerequisites: WRIT 1301 and WRIT 1302

LITR 3301 Literary Studies: Genres and Critical Perspectives

Credit: 3 | Lecture: 3 | Lab: 0

Introduction to the close study of literary and dramatic texts and issues affecting interpretation.

LITR 3302 Principles of Composition

Credit: 3 | Lecture: 3 | Lab: 0

Advanced study of the principles of composition with emphasis on grammatical theory and analysis; discourse theory; and the cognitive, rhetorical, and linguistic aspects of writing; emphasis on recent developments in theory.

LITR 3334 Mythology

Credit: 3 | Lecture: 3 | Lab: 0

Greco-Roman and other selected mythological texts important in world literature, such as Homeric or Akkadian epic, the Eddas, the stories of the Arthurian cycle, and the Native American myths.

LITR 3361 Shakespeare

Credit: 3 | Lecture: 3 | Lab: 0

Shakespeare's major plays and their production in the theatre of the English Renaissance.

LITR 3371 Creative Writing

Credit: 3 | Lecture: 3 | Lab: 0

Practice and instruction in writing fiction, poetry, creative nonfiction, drama, and/or other genres. Exercises in creative process and workshop discussions of participants' work. Multi-genre survey (poetry, fiction, etc.) or single-genre topics course. May be repeated for credit with permission of instructor.

Prerequisites: WRIT 1301 and WRIT 1302

LITR 4189 Independent Study in Literature

Credit: 1 | Lecture: 0 | Lab: 0

Permission of instructor required. May be taken for 1 hour of credit. For 3 credit hours of Independent Study credit, students should enroll in LITR 4389.

LITR 4301 Literary Theory

Credit: 3 | Lecture: 3 | Lab: 0

Theories about the nature of verbal art and the relationship between literature and reality.

Prerequisites: LITR 3301

LITR 4304 Workshop in Poetics

Credit: 3 | Lecture: 3 | Lab: 0

The language, formal strategy, and mechanical techniques of poetry. A practical sense of how poems work. Designed for teachers, readers, and

writers of poetry. Prerequisites: LITR 3301

LITR 4312 Chaucer

Credit: 3 | Lecture: 3 | Lab: 0

The art of England's greatest narrative poet: Canterbury Tales, Troilus, and Criseyde.

LITR 4316 16th- and 17th-Century British Literature

Credit: 3 | Lecture: 3 | Lab: 0

Non-Shakespearean poetry, drama, and prose of early modern Britain, including selections from writers such as Wyatt, Marlowe, Spenser, Jonson, Donne, Wroth, Lanyer, Milton, and Marvell.

LITR 4318 Restoration and 18th-Century British Literature

Credit: 3 | Lecture: 3 | Lab: 0

Representative British texts and authors of the period 1660–1790, such as Dryden, Behn, Pope, Swift, Defoe, Johnson, and Boswell.

LITR 4320 The Romantic Movement in British Literature

Credit: 3 | Lecture: 3 | Lab: 0

Major Romantic poets and novelists: Coleridge, Wordsworth, Byron, Scott, Mary Shelley, Bronte, and others. Topics may include revolution and war, gender issues, rise of the individual colonialism, exoticism, science, or art.

LITR 4321 Jane Austen

Credit: 3 | Lecture: 3 | Lab: 0

An overview of the life and work of Jane Austen, focusing on major novels, such as Pride and Prejudice, and early works, such as Lady Susan, in relation to literary and cultural traditions of the period.

LITR 4322 Victorian Literature

Credit: 3 | Lecture: 3 | Lab: 0

Major Victorian essayists, poets, and novelists, including Tennyson, the Brontes, George Eliot, Gaskell, Stoker, and Wilde; literary responses to industrialization, empire, and class struggle; examination of social, artistic, and moral tensions in Victorian literature.

LITR 4324 Rise and Development of the British Novel

Credit: 3 | Lecture: 3 | Lab: 0

Origins and development of the novel in English; major British novelists from the late 17th through the early 20th centuries, such as Behn, Defoe, Richardson, Austen, Dickens, Hardy, and Conrad.

LITR 4326 Early American Literature

Credit: 3 | Lecture: 3 | Lab: 0

Multicultural voices and texts from Native America, Spanish America, and African America; early dominant cultures of Puritans and Founders; spoken traditions, cultural history, and early modern literature.

LITR 4328 The American Renaissance

Credit: 3 | Lecture: 3 | Lab: 0

The Romantic period of American literature featuring Transcendentalists, classic and popular fiction, slave narratives in context of antebellum culture; authors include Emerson, Poe, Hawthorne, Stowe, Douglass, Dickinson, Whitman, and others.

LITR 4330 American Realism and Naturalism

Credit: 3 | Lecture: 3 | Lab: 0

Literature of social observation and criticism, psychological realism, effect of social and natural science on literary form, literature of American folkways. Authors may include Twain, Wharton, James, Chesnutt, and Crane.

LITR 4334 The American Novel

Credit: 3 | Lecture: 3 | Lab: 0

Focus on development of form, style, and theme in American fiction; major and lesser-known novelists over two centuries.

LITR 4335 American Modernism Credit: 3 | Lecture: 3 | Lab: 0

Literary experimentation in context of international Modernism; expressions of social and cultural dislocation or search for order.

Authors may include Eliot, Fitzgerald, Faulkner, and Hurston.

LITR 4336 Contemporary American Literature Credit: 3 | Lecture: 3 | Lab: 0

Diverse writings from recent decades; topics addressed may include revisions of traditional narrative; conformity and counter-culture; postmodernism; re-imagining ethnic, gender, national or planetary identity. Authors may include Toni Morrison, Thomas Pynchon, Colson Whitehead, and Lydia Davis.

LITR 4338 American Minority Literature Credit: 3 | Lecture: 3 | Lab: 0

Survey or in-depth focus on classic and contemporary texts for America's ethnic and/ or gender minorities: African Americans, Native Americans, Mexican Americans, women and others may be included.

LITR 4340 American Immigrant Literature Credit: 3 | Lecture: 3 | Lab: 0

America's fundamental narrative of immigration, the "American Dream" and its variations, told in voices from the Pilgrims through Jewish, European, Asian, Central American, and Caribbean writers of the 20th and 21st centuries.

LITR 4342 Modern and Contemporary Drama

Credit: 3 | Lecture: 3 | Lab: 0

A century of national and international playwrights from Henrik Ibsen and Anton Chekhov to Sam Shepard and August Wilson; realism, symbolism, expressionism, and theatre of the absurd.

LITR 4344 The Modern Novel

Credit: 3 | Lecture: 3 | Lab: 0

Major works of such novelists as Conrad, Joyce, Faulkner, Mann, and Garcia-Marquez.

LITR 4345 Contemporary Novel

Credit: 3 | Lecture: 3 | Lab: 0

Novels of recent decades from around the world; topics may include postcolonialism, postmodernism, transnationalism, technology, and virtuality. Authors may include Atwood, Ben Jelloun, Bolano, Coetzee, Djebar, Lahiri, Mieville, Morrison, Murakami, Ondaatje, Pamuk, Powers, and Winterson.

LITR 4346 Medieval Literature

Credit: 3 | Lecture: 3 | Lab: 0

Romance, lyric, fabliau, epic, play, and story. Selections from such medieval masters as Dante; the Gawain, Tristan and Beowulf poets; Boccaccio; and Chretien de Troyes. Texts will be read in translation.

LITR 4350 Masterpieces of 19th-Century European Literature

Credit: 3 | Lecture: 3 | Lab: 0

Revolutionary literary and philosophical works from 19th-century European tradition; includes such writers as Balzac, Flaubert, Nietzsche, Marx, Dostoevski, Austen, Dickens, Blake, and Turgenev.

LITR 4352 Masterpieces of 20th-Century European Literature

Credit: 3 | Lecture: 3 | Lab: 0

Major works by 20th-century European writers, including James, Conrad, Woolf, Proust, Colette, Camus, Mann, Kafka, Nabokov, and Duras; topics may include the problems of modern existence, war, human rights, the citizen, and the writer.

LITR 4356 Modern American and British Poetry Credit: 3 | Lecture: 3 | Lab: 0

Myth and epic, the personal poem, Expressionism, neo-Romanticism; includes such poets as Yeats, Auden, Stevens, and Frost.

LITR 4358 Contemporary Poetry

Credit: 3 | Lecture: 3 | Lab: 0

Poetry in English after 1950, American or transnational focus; may include such figures as Lowell, Ginsberg, Rich, Heaney, and Walcott.

LITR 4360 Film as Literature

Credit: 3 | Lecture: 3 | Lab: 0

Understanding films through the language of film (shots, montage, framing, lighting, sound, genre, classical Hollywood, and avant-garde). Film interpretation and critique.

LITR 4362 The Literature of Adolescence

Credit: 3 | Lecture: 3 | Lab: 0

Growing up: variance and continuity in depictions of adolescence by American and other writers.

LITR 4364 Women in Literature

Credit: 3 | Lecture: 3 | Lab: 0

Heroines from Eve to Molly Bloom; how literature constructs the female; emphasis on 19th- and 20th-century works. Women's Studies Course.

LITR 4366 Literature and Religion

Credit: 3 | Lecture: 3 | Lab: 0

Texts concerning spiritual journeys, religious passion, and impact of belief on character. Religions may be Western or non-Western, world or folk. Genres may range from scriptures to novels, memoirs to poetry. Topics, texts, and themes will vary. May be repeated for credit with permission of instructor.

LITR 4368 Literature of the Future

Credit: 3 | Lecture: 3 | Lab: 0

Apocalyptic, evolutionary, and alternative narratives for literature depicting human society in the near and deep future; genres include classic and current science fiction, prophecy, utopias, dystopias, and ecotopias.

LITR 4370 Tragedy

Credit: 3 | Lecture: 3 | Lab: 0

The dimensions of tragic experience as expressed in Western literature.

LITR 4371 Comedy

Credit: 3 | Lecture: 3 | Lab: 0

The comic view of the human predicament as seen in writers such as Aristophanes, Moliere, Wilde, and others.

LITR 4389 Independent Study in Literature

Credit: 3 | Lecture: 0 | Lab: 0

Permission of instructor required. May be taken for 3 hours of credit. For 1 hour of Independent Study credit, students should enroll in LITR 4189.

LITR 4391 Selected Topics in Literature

Credit: 3 | Lecture: 3 | Lab: 0

Identified by specific title each time course is offered. Topics vary; may be repeated for credit with permission of instructor.

LLAS Latino and Latin American Studies

LLAS 2301 Topics in Latina/o and Latin American Studies, Humanities

Credit: 3 | Lecture: 3 | Lab: 0

Survey of topics in Latina/o and Latin American Studies. Topics vary; may be repeated for credit with permission of instructor.

LLAS 2302 Topics in Latina/o and Latin American Studies, Human Sciences

Credit: 3 | Lecture: 3 | Lab: 0

Survey of topics in Latina/o and Latin American Studies. Topics vary; may be repeated for credit with permission of instructor.

LLAS 4309 Topics in Latina/o and Latin American Studies

Credit: 3 | Lecture: 3 | Lab: 0

Upper-level course on topics in Latina/o and Latin American Studies. Topics vary; may be repeated for credit with permission of instructor.

LLLS Literacy, Language and Library Science

LLLS 4311 Survey of Reading

Credit: 3 | Lecture: 3 | Lab: 0

Theories and approaches to teaching reading from emergent to proficient reading including word recognition skills, phonemic awareness, vocabulary development, comprehension, materials and methods for structuring of reading programs.

LLLS 4312 Literacy Issues of Secondary Students Credit: 3 | Lecture: 3 | Lab: 0

Theories and approaches for teaching reading in intermediate and high school. Field experiences required.

LLLS 4313 Corrective and Remedial Reading

Credit: 3 | Lecture: 3 | Lab: 0

Study of neurophysiology and psychology in treating disabled readers, including dyslexia and related disorders. Evaluation of strategies of correction and remediation. Field experiences required.

Prerequisites: LLLS 4311 or LLLS 4352 and concurrent enrollment in LLLS 4332

LLLS 4332 Diagnostic and Prescriptive Reading

Credit: 3 | Lecture: 3 | Lab: 0

Diagnostic evaluation of readers; remedial approaches to vocabulary, comprehension, word identification, phonemic awareness and fluency. Field experiences required.

Prerequisites: LLLS 4311 or LLLS 4352 and concurrent enrollment in LLLS 4313

LLLS 4344 Reading & Writing for EC-6

Credit: 3 | Lecture: 3 | Lab: 0

Application of theories and strategies for teaching the language arts for EC-6. Field experiences required.

Prerequisites: LLLS 4311 or equivalent.

LLLS 4345 Survey of Children's Literature

Credit: 3 | Lecture: 3 | Lab: 0

Survey of literature for children focusing on titles appropriate for grades EC-8 students.

LLLS 4346 Teaching Language Arts in the 4-8 Classroom

Credit: 3 | Lecture: 3 | Lab: 0

Application of theories and strategies for teaching the language arts for students in grades

4-8. Field experiences required.

LLLS 4347 Multicultural Literature

Credit: 3 | Lecture: 3 | Lab: 0

Survey of multicultural literature for children focusing on titles which reflect the diverse cultures and exceptionalities in the EC-8 classroom.

LLLS 4348 Selecting Literature for the Very Young Child

Credit: 3 | Lecture: 3 | Lab: 0

Survey of literature for very young children focusing on titles appropriate for children from birth to age five.

LLLS 4351 Reading in Content Subjects

Credit: 3 | Lecture: 3 | Lab: 0

Survey of current reading and writing development in content subjects.

LLLS 4352 Young Adult Literature and Reading

Credit: 3 | Lecture: 3 | Lab: 0

Selection and use of literature for young adults, focusing on titles appropriate for students in grades 8–12.

LLLS 4364 Methods in Secondary English/ Language Arts

Credit: 3 | Lecture: 3 | Lab: 0

Implementation of instructional plans and teaching strategies. Review of current research, theories and exemplary practices of teaching secondary English/Language Arts. Field experiences required.

Prerequisites: Admission to Teacher Education.

LLLS 4379 Practicum in Clinical Reading

Credit: 3 | Lecture: 3 | Lab: 0

Practices of diagnosing reading difficulties, grouping techniques and clinical evaluations; and three hours each week in a reading laboratory setting using selected materials and reading aids.

Prerequisites: 12 hours of Reading coursework including LLLS 4313 and LLLS 4332 or equivalent and approval of instructor and associate dean.

LLLS 4389 Independent Study in Reading

Credit: 3 | Lecture: 3 | Lab: 0

Prerequisites: Approval of instructor and associate dean.

LLLS 4391 Selected Topics in Reading

Credit: 3 | Lecture: 3 | Lab: 0

Identified by specific title each time course is offered.

MATH Mathematics

MATH 1314 College Algebra

Credit: 3 | Lecture: 3

Study of quadratics; polynomial, rational, logarithmic and exponential functions; systems of equations; progressions; sequences and series and matrices and determinants.

Prerequisites: Meet TSI college-readiness standard

for Mathematics; or equivalent.

MATH 1324 Mathematics for Business and Social Sciences.

Credit: 3 | Lecture: 3

Topics from college algebra (linear equations, quadratic equations, functions and graphs, inequalities), mathematics of finance (simple and compound interest, annuities), linear programming, matrices, systems of linear equations, applications to management, economics and business.

Prerequisites: Meet TSI college-readiness standard for Mathematics; or equivalent.

MATH 1325 Calculus for Business and Social Sciences

Credit: 3 | Lecture: 3

Limits and continuity, derivatives, graphing and optimization, exponential and logarithmic functions, anti-derivatives, integration, applications to management, economics and business.

Prerequisites: MATH 1324 or MATH 1314 with a Coor better or meet requirement in UHCL Mathematics Department Placement and Testing policy.

MATH 1332 Contemporary Mathematics Credit: 3 | Lecture: 3

Topics include introductory treatments of sets, logic, number systems, number theory, relations, functions, probability and statistics. Appropriate applications are included.

Prerequisites: Appropriate score on placement exam.

MATH 1342 Elementary Statistical Methods Credit: 3 | Lecture: 3

Collection, analysis, presentation and interpretation of data; probability, sampling, correlation and regression, analysis of variance and the use of statistical software.

Prerequisites: Meet TSI college-readiness standard for Mathematics; or equivalent.

MATH 1350 Mathematics for Teachers I Credit: 3 | Lecture: 3

Concepts of sets, functions, numeration systems, number theory and properties of the natural numbers, integers, rational and real number systems with an emphasis on problem solving critical thinking. Open only to teacher certification students.

Prerequisites: MATH 1314 or higher with a C- or better.

MATH 1351 Mathematics for Teachers II Credit: 3 | Lecture: 3

Concepts of geometry, probability and statistics; as well as applications of the algebraic properties of real numbers to concepts of measurement with an emphasis on problem solving and critical thinking. This course is designed specifically for students who seek middle grade (4–8) teacher certification. Open only to teacher certification students.

Prerequisites: MATH 1350

MATH 2305 Discrete Mathematics

Lecture: 3

Introductory mathematical logic, mathematical induction, relations and functions, basic counting techniques, graphs and trees and applications to computing devices. Designed for students majoring in the computer related disciplines.

Prerequisites: MATH 2413 or MATH 1325.

MATH 2315 Calculus III Credit: 3 | Lecture: 3

Vectors and vector valued functions, functions of multiple variables, partial derivatives, multiple integrals, volume and surface area and vector calculus.

Prerequisites: MATH 2414

MATH 2318 Linear Algebra

Credit: 3 | Lecture: 3

Systems of linear equations; vector spaces, linear transformations, determinants, matrices, eigenvalues and eigenvectors; applications to coding and difference equations.

Prerequisites: MATH 2412 or MATH 2413

MATH 2320 Differential Equations

Credit: 3 | Lecture: 3

Solutions of ordinary differential equations of the first and second order, Laplace transforms, power series techniques, systems of equations, stability, numerical methods, geometric and physical applications.

Prerequisites: MATH 2414

MATH 2412 Pre-Calculus Mathematics

Credit: 4 | Lecture: 4

In-depth combined study of algebra, trigonometry and other topics for calculus readiness.

Prerequisites: MATH 1314 with a C- or better or meet requirement in UHCL Mathematics Department Placement and Testing policy.

MATH 2413 Calculus I

Credit: 4 | Lecture: 4

Limits and continuity; the Fundamental Theorem of Calculus; definition of the derivative of a function and techniques of differentiation; applications of the derivative to maximizing or minimizing a function; the chain rule, mean value theorem and rate of change problems; curve sketching; definite and indefinite integration of algebraic, trigonometric and transcendental functions with an application to calculation of areas.

Prerequisites: MATH 2412 with a C- or better or meet requirement in UHCL Mathematics Department Placement and Testing policy.

MATH 2414 Calculus II

Lecture: 4

Differentiation and integration of transcendental functions; parametric equations and polar coordinates; techniques of integration; sequences and series; improper integrals.

Prerequisites: MATH 2413 with a C- or better or meet requirement in UHCL Mathematics Department

Placement and Testing policy.

MATH 3300 Introduction to Modern Algebra and Number Theory

Credit: 3 | Lecture: 3

An introduction to techniques of proof, problem solving and applications using topics from number theory, discrete mathematics and logic such as symbolic logic, various proof methods, sequences and recursion, congruence classes, modular arithmetic, permutations and inductive and deductive argument forms.

Prerequisites: MATH 2413

MATH 3301 History of Mathematical Sciences Credit: 3 | Lecture: 3

Temporal relationships of concepts by means of biographic studies; development of mathematical theory and applications from ancient to contemporary times.

Prerequisites: MATH 1314 or MATH 1324 or MATH

1332

MATH 3304 Algebra Through Technology Credit: 3 | Lecture: 3

Using technology topics in elementary functions, simultaneous equations, polynomials and elementary topics in number theory. This course for Teaching Certification students only.

Prerequisites: MATH 1314

MATH 3305 Euclidian and Non-Euclidian Geometry

Credit: 3 | Lecture: 3

Formal set theory, logical structure and

measurement.

Prerequisites: MATH 1314

MATH 3306 Problem Solving

Credit: 3 | Lecture: 3

Problem solving through experiences and reasoning; ideas from areas such as pattern recognition, simulation and logical deduction. Prerequisites: MATH 1351, MATH 3304, or equivalent or instructor permission

MATH 3312 Number Theory

Credit: 3 | Lecture: 3

Properties of divisibility. Prime numbers, congruence arithmetic, Fermat's and Euler's Theorem, multiplicative functions, cryptology and applications of these ideas, an overview of techniques of mathematical proof.

Prerequisites: MATH 3300 or MATH 3331.

MATH 3331 Advanced Calculus

Credit: 3 | Lecture: 3

Set theory. Real number system. Sequences and series. Differentiation. The Riemann integral.

Prerequisites: MATH 2315 or equivalent.

MATH 4189 Independent Study in Mathematics

Credit: 1 | Lecture: 1

Prerequisites: Approval of instructor, chair and

associate dean.

MATH 4313 Introduction to Topology

Credit: 3 | Lecture: 3

Topological techniques in analysis, metric spaces, continuous transformations, connectivity, separation, compactness; nets and filters, cardinal arithmetic.

Prerequisites: MATH 3331.

MATH 4315 Numerical Analysis and its Applications

Credit: 3 | Lecture: 3

Introduction to methods and algorithms in numerical computation. The topics include techniques for finding the roots of equations and interpolation functions, numerical approximation of differentiation and integration, numerical solutions to ordinary differential equations, linear systems and nonlinear systems. *Prerequisites: MATH 2315, MATH 2318, MATH 2320 and C/C++ or equivalent.*

MATH 4316 Mathematic Software Applications Credit: 3 | Lecture: 3

This course covers a number of applied mathematics models through scientific software simulators; Matlab and Mathematica, Symbolic, numerical and graphical simulations and symbolic operations will be applied to various mathematical problems normally viewed as beyond the scope of the course in which they are first introduced. A variety of programming paradigms, such as procedural programming and function programming will be emphasized. Prerequisites: MATH 2318, MATH 2320, CSCI 1318 or a scientific programming language.

MATH 4321 Predicate Logic

Credit: 3 | Lecture: 3

An introduction to predicate logic; elements of formal logic systems; set theory and propositional calculus, completeness theorems and the nature of proofs.

MATH 4322 Introduction to Abstract Algebra Credit: 3 | Lecture: 3

Study of algebraic structures: maps, operations, permutations and homomorphisms. Groups, rings, integral domains and fields; applications to symmetry; techniques of mathematical proof. *Prerequisites: MATH* 3312 or *MATH* 3331.

MATH 4325 Theory of Models and Applications Credit: 3 | Lecture: 3

Simulation and analysis on continuous and discrete mathematical models in science. It also includes the study of nonlinear dynamics, chaos and fractals.

Prerequisites: MATH 2318 and MATH 2320 or equivalent.

MATH 4341 Introduction to Analysis

Credit: 3 | Lecture: 3

Real numbers, sequences and series, differentiation and measure theory; Riemann, Stieltjes and Lebesgue integrals. Prerequisites: MATH 3331 or equivalent.

MATH 4344 Introduction to Probability Credit: 3 | Lecture: 3

Sample space, probability function, combinatorics, discrete and continuous random variables, special probability distributions, moment generating function, multivariate distribution and central limit theorem.

Prerequisites: MATH 2414

MATH 4345 Introduction to Statistics

Credit: 3 | Lecture: 3

Sampling distributions, point and interval estimation, hypothesis testing, regression and correlation, nonparametric statistics, analysis of variance.

Prerequisites: MATH/STAT 4344

MATH 4346 Probability for Actuarial Exam P1 Credit: 3 | Lecture: 3

This course is designed to prepare students for the first actuarial exam. This course consists of introducing, reviewing concepts and rules of probability and statistics and studying sample actuarial examinations and related material. Students are given sample problems from past actuarial examinations to study outside of class. The solution of these problems and related material are discussed in class.

Prerequisites: MATH/STAT 4344

MATH 4348 Introduction to Financial Math for Exam FM

Credit: 3 | Lecture: 3

This course is designed to help students for the second actuarial exam. This course consists of introducing the basics of sample interest and discount, compound interest and simple annuities and studying sample actuarial examinations and related material. Students are given sample problems from past actuarial examinations to study outside of class. The solution of these problems and related material are discussed in class.

Prerequisites: MATH 2413

MATH 4350 Financial Economics for Actuarial Exam MFE

Credit: 3 | Lecture: 3

A mathematical insight of some fundamental concepts of financial mathematics and financial economics, and their application to real world business situations and basic risk management. An introduction to mathematical approach to understanding stochastic calculus, asset pricing, hedging and portfolio theory.

Prerequisites: MATH/STAT 4344

MATH 4363 Functions of a Complex Variable Credit: 3 | Lecture: 3

The theory of limits, differentiation and integration in the complex plane. Gauss' theorem and residue calculations.

Prerequisites: MATH 2315 or equivalent.

MATH 4389 Independent Study in Mathematics

Credit: 3 | Lecture: 3

Prerequisites: Approval of instructor, chair and associate dean.

MATH 4391 Selected Topics in Mathematics

Credit: 3 | Lecture: 3

Identified by specific title each time course is offered.

MENG Mechanical Engineering

MENG 2301 Statics Credit: 3 | Lecture: 3

Review of vector methods, static analysis of forces acting on a particle and reduction of forces to equivalent force and couple. Static analysis of rigid bodies, trusses, frames and machines.

Prerequisites: PHYS 2325 and 2125; MATH 2414

Corequisites: MATH 2414

MENG 2302 Dynamics

Credit: 3 | Lecture: 3

Principles of work and energy applied to particles, systems of particles, and rigid bodies. Impulse and momentum methods. Application of Newton's laws to derive equations of motion for particles, rigid bodies and systems.

MENG 2334 Thermodynamics I

Credit: 3 | Lecture: 3

Key thermodynamics properties such as enthalpy, entropy, work, heat, compressibility and phase. First and second laws of thermodynamics and applications. Important thermal cycles and modeling of closed and open systems.

MENG 2361 Introduction to Mechanical Design Credit: 3 | Lecture: 3

Design, implementation and testing of kinematic devices to produce specified motion. Synthesis of kinematic systems consisting of components such as gears, linkages, cams and yokes.

Applications to practical engineering problems.

Engineering design, design code applications and ethical issues in design.

MGMT Management

MGMT 3301 Management Theory and Practice Credit: 3 | Lecture: 3

Management policies and processes including planning, organizing and controlling; overview of the functions of organization theory and behavior.

MGMT 3313 Organizational Communication Credit: 3 | Lecture: 3

A study of theories and practices in organizational communication, dissemination of information in organizational settings, effectiveness, relative costs and feedback potential.

Prerequisites: MGMT 3301 or equivalent.

MGMT 3331 Human Resource Management

Credit: 3 | Lecture: 3

Problems and practices in human resource management; selection, placement, evaluation, promotion and termination.

Prerequisites: MGMT 3301 or equivalent.

MGMT 3341 Human Resource Planning, Staffing and Selection

Credit: 3 | Lecture: 3

Techniques for planning and recruiting human resource needs in the context of organizational requirements. Staffing and selection techniques and practice relative to legal concerns and labor market considerations.

Prerequisites: MGMT 3331 or equivalent.

MGMT 3351 Wage and Salary Administration Credit: 3 | Lecture: 3

Job performance evaluation and development of compensation plans and programs.

Prerequisites: MGMT 3301 or equivalent.

MGMT 4189 Independent Studies in

Management Credit: 3 | Lecture: 3

Independent directed study in Management.

Prerequisites: Approval of instructor, Faculty Chair

and Associate Dean required.

MGMT 4312 Strategic Management (Capstone) Credit: 3 | Lecture: 3

In addition, registration is restricted to students with an approved Candidate Plan of Study. The study of the formulation, implementation and assessment of strategic decisions.

Prerequisites: MGMT 3301, MKTG 3301, FINC 3331 and LAST SEMESTER.

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MGMT 4316 Human Resource Management Information Systems

Credit: 3 | Lecture: 3

Principles and procedures and contemporary programs used in the development of information systems to aid human resource decision making.

MGMT 4325 Legal Concepts for Human Resource Professionals

Credit: 3 | Lecture: 3

This course provides students with a basic understanding of the federal laws governing the employee/employer relationship with emphasis on non-discrimination, wage and hour laws, and employee benefits

MGMT 4326 Effective Negotiations Credit: 3 | Lecture: 3

This course is designed to provide a basic foundation in negotiation theory and practice. The focus of this course will be upon developing analytical and interpersonal skills in the context of negotiation simulations and discussions using a variety of settings and media, reflecting on the various situations in which negotiations take place today. The student will be given the opportunity to practice negotiation skills in one-on-one and team simulations.

MGMT 4327 Leadership

Credit: 3 | Lecture: 3

The course will examine and focus on proven executive leadership best practices across a range of complex organizations.

MGMT 4328 Cross Cultural and International Leadership

Credit: 3 | Lecture: 3

This course will focus on identifying and evaluating leadership dimensions from a cross-cultural perspective. The central theme of the course is to cultivate leadership behaviors for success in the international organization environment.

MGMT 4332 Organizational Design and Learning

Credit: 3 | Lecture: 3

Surveys theory and research on the structure of business organizations and processes affecting their management.

Prerequisites: MGMT 3301 or equivalent.

MGMT 4333 Collective Bargaining in the Public Sector

Credit: 3 | Lecture: 3

Comparisons and contrasts of collective bargaining in the public and private sectors; the impact of unionization on public administration. *Prerequisites: MGMT 3301 or equivalent.*

MGMT 4334 Leading Teams

Credit: 3 | Lecture: 3

Exploring issues related to team membership, including leading teams, team foundation and development, roles within the teams, effective team member interactions, and the successful management of team processes.

Prerequisites: MGMT 3301 & MGMT 4354.

MGMT 4336 Principles of Entrepreneurship Credit: 3 | Lecture: 3

Examines the preparation and foundation of new ventures. Topics include opportunity recognition, market analysis, organizational forms and ownership structures, venture capital, strategy formulation and feasibility analysis. This course includes preparation and presentation of a comprehensive business plan. *Prerequisites: MGMT 3301 and MKTG 3301 or equivalents.*

MGMT 4337 Applied Small and Family Business Management

Credit: 3 | Lecture: 3

This course will provide students with an opportunity to practice entrepreneurial skills and tools while supporting local businesses, nonprofit firms, or the community.

Prerequisites: MGMT 4336 or equivalent

MGMT 4341 Leadership in a Global Business Environment

Credit: 3 | Lecture: 3

The topic of leadership will be explored in the context of the global business environment.

MGMT 4351 Industrial Labor Relations Credit: 3 | Lecture: 3

Collective bargaining processes in American industry; impact of labor management relations on wage and employment levels and on national income.

Prerequisites: MGMT 3301 or equivalent.

MGMT 4353 International Business Management

Credit: 3 | Lecture: 3

Managerial considerations in international business operations; government involvement, organizational structure, operating policies and market peculiarities.

Prerequisites: MGMT 3301 or equivalent.

MGMT 4354 Organizational Behavior Theory and Application

Credit: 3 | Lecture: 3

Exploring the dynamics of human behavior in organizations in order to better understand and evaluate how people and groups in organizations behave, react, and interpret events, and to apply these concepts successfully in a management context.

Prerequisites: MGMT 3301 or equivalent.

MGMT 4355 Seminar in International Management

Credit: 3 | Lecture: 3

Field experience involving meetings with top management personnel of businesses operating outside the United States. Discussions will center on the economic, cultural, social, legal and other environmental constraints that affect firms in other countries.

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MGMT 4356 Employee Training and Organizational Development

Credit: 3 | Lecture: 3

This course is designed to explore the field of employee and organization development. The course explores the fundamentals of training and organizational development, critical models and approaches utilized by training and organizational development professionals, and critical elements neccessary for a successful training and/or organizational development program.

Prerequisites: MGMT 3331 and MGMT 4354 or equivalent.

MGMT 4357 Government Budget Planning and Analysis

Credit: 3 | Lecture: 3

Application of management, accounting and finance principles to the preparation, analysis and implementation of government budgets; emphasis on state and local levels.

MGMT 4371 Seminar on the Social Responsibility of Business

Credit: 3 | Lecture: 3

The changing role of business enterprise in society; influences of government regulatory agencies on social consciousness in the business world.

Prerequisites: MGMT 3301 or equivalent.

MGMT 4379 Internship in Management

Credit: 3 | Lecture: 3

Three or six hours of supervised work experience each week in an approved business or industrial firm.

Prerequisites: 15 hours of upper-level credit and approval of program director.

MGMT 4389 Independent Studied in Management

Credit: 3 | Lecture: 3

Independent directed study in Management. Prerequisites: Approval of instructor, Faculty Chair and Associate Dean required.

MGMT 4391 Selected Topics in Management

Credit: 3 | Lecture: 3

Identified by specific title each time course is offered.

MKTG Marketing

MKTG 3301 Principles of Marketing

Credit: 3 | Lecture: 3

Focus is on initiating, building and maintaining mutually beneficial relationships with customers through the strategic use of the marketing mix. Topics include marketing research, market segmentation and targeting, buyer behavior, product development, brand management, promotion, international marketing, e-marketing, and ethical marketing practices.

MKTG 3313 Marketing Channels and Distribution

Credit: 3 | Lecture: 3

Examination of the strategic role of distribution within the overall marketing strategy. Specific managerial and regulatory issues in designing and coordinating industrial distribution channels and channel relationships are discussed.

Prerequisites: MKTG 3301 or equivalent.

MKTG 3314 Logistics Strategy

Credit: 3 | Lecture: 3

An in-depth analysis of logistics and its role within the distribution strategy. The functional components such as inventory control, transportation, warehousing, purchasing, and supply chain management are examined. Prerequisites: MKTG 3301 or equivalent.

MKTG 3331 Integrated Marketing Communications

Lecture: 0 | Lab: 1

Focus is on building relationships between brands and customers through the strategic use of the elements of the marketing communication mix, including advertising, sales promotion, direct marketing, personal selling and public relations.

Prerequisites: MKTG 3301 or equivalent.

MKTG 3332 Professional Selling

Credit: 3 | Lecture: 3

A study of the field of professional selling as an integral component of the promotional activities of the organization. Discussions focus on the selling of goods and services to organizational buyers in the context of long-term relationships. Prerequisites: MKTG 3301 or equivalent.

MKTG 3342 Brand Management

Credit: 3 | Lecture: 3

An in-depth analysis of the power of branding on customer behavior and its impact on business results. Topics covered include the importance of branding, brand equity, characteristics of a good brand name and brand mark, brand identity and design, brand promise, brand positioning and repositioning, brand attributes and personality, messaging and taglines, measuring success, and emerging issues.

Prerequisites: MKTG 3301 or equivalent.

MKTG 3343 Consumer Behavior

Credit: 3 | Lecture: 3

This course focuses on the individual consumer as a primary consideration in strategic marketing decisions. It provides insight into the motivations, influences, and processes underlying consumption behavior, including psychological, situational, and socio-cultural factors. Specific topics include perception, attitudes, values, consumer decision-making, and customer satisfaction, among others.

Prerequisites: MKTG 3301 or equivalent.

MKTG 3344 Internet Marketing

Credit: 3 | Lecture: 3

An examination of how the Internet is transforming relationships between organizations and their customers, as well as changing the competitive dynamics of the marketplace, with an emphasis on the strategic role of the Internet in the marketing plan.

Prerequisites: MKTG 3301 or equivalent.

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MKTG 3346 Healthcare Marketing

Credit: 3 | Lecture: 3

The growth of competition among healthcare providers provides new and exciting opportunities for marketers. This course provides students with the knowledge and skills needed to effectively market health care products and services. Students examine consumer needs, target market concepts, service development, pricing strategies, customer communications, channel management, cost benefit analysis, ethical considerations, and emerging issues in healthcare.

MKTG 3347 Customer Relationship Management

Credit: 3 | Lecture: 3

This course covers relationship management as an effective component of an organization's marketing effort. The primary emphasis is on the effort of the firm to manage its' relationships with customers, including the capture, storage and analysis of customer information, with discussion of the people, processes, and technology involved in taking full advantage of this information.

Prerequisites: MKTG 3301 or equivalent.

MKTG 3348 Retail Management Credit: 3 | Lecture: 3 | Lab: 0

The study of fundamental retailing concepts and practices from a management perspective. Topics include location selection, store layout, store operation and management, branding, merchandising, shelf management, pricing alternatives, point-of-sale merchandising, advertising and communication effectiveness, customer service, customer analysis, and retail information systems and control.

Prerequisites: MKTG 3301 or equivalent.

MKTG 3351 Marketing Research

Credit: 3 | Lecture: 3

Focus is on the use of market intelligence to provide marketing decision–makers with data on the effectiveness of the current marketing mix, direction for necessary changes, and insight into new opportunities in the marketplace.

Prerequisites: MKTG 3301 or equivalents.

MKTG 4189 Independent Studies in Marketing

Credit: 3 | Lecture: 3

Independent directed study in Marketing.

Prerequisites: Approval of instructor, Faculty Chair and Associate Dean required.

MKTG 4311 Sales Management

Credit: 3 | Lecture: 3

A study of the tasks of the sales manager including the organization, planning, operation and control of a field sales force. The course emphasizes managerial problem solving in business-to-business marketing.

Prerequisites: MKTG 3332 or equivalent.

MKTG 4332 Services Marketing

Credit: 0 | Lecture: 3

Concepts and strategies in service industries which serve business and organizational customers. Examines the role of pricing, promotion, distribution, and product strategies in the business service sector.

Prerequisites: MKTG 3301 or equivalent or permission of instructor for non-majors.

MKTG 4333 Marketing for Entrepreneurs

Credit: 3 | Lecture: 3

Application of marketing theories and principles to small businesses and new business ventures.

Prerequisites: MKTG 3301 or equivalent.

MKTG 4334 Marketing Strategy

Lecture: 0 | Lab: 1

Integrating marketing concepts such as purchasing, market segmentation and the 4 Ps and applying them to develop market strategies. *Prerequisites: MKTG* 3301 or equivalent.

MKTG 4335 Brands and Brand Management Credit: 3 | Lecture: 3

Effective brand management drives customer loyalty and superior long-term company performance. Brands and Brand Management is an undergraduate course that explores why brands are important, what they represent to consumers, and what firms should do to manage them effectively. Some of the topics covered in this course include brand positioning and repositioning; choosing brand elements such as brand names, brand marks, spokes-characters, and endorsers; brand architecture and brand extensions; measuring brand performance; and managing brands over time and across geographic boundaries.

Prerequisites: Prerequisite: MKTG 3331

MKTG 4338 Sports Marketing

Credit: 3 | Lecture: 3

Sports marketing examines the world of sports from a strategic marketing perspective. More specifically, this course examines the strategic decisions related to target market, product, price and promotion within sports marketing context. An integrating strategic concept will be moving spectators up the 'fan ladder'. The course concludes with a discussion of emerging issues in sports marketing.

Prerequisites: MKTG 3301 and MKTG 3343

MKTG 4351 International Marketing

Credit: 3 | Lecture: 3

Begins with a discussion of incentives for and barriers to international trade, and foreign market selection and entry strategies. Examines product, price, distribution, and promotion decisions in an international context. Involves analysis and critique of the marketing strategies used by a multinational firm.

Prerequisites: MKTG 3301 or equivalent.

MKTG 4352 Seminar in International Marketing Credit: 3 | Lecture: 3

Field experience involving meetings with the chief marketing officers of firms operating in areas outside the United States. Sessions will concentrate on marketing problems found in other cultures, the solutions used to address those problems and how these problems and solutions are different from the American experience.

MKTG 4379 Internship in Marketing

Credit: 3 | Lecture: 3

Three or six hours of supervised work experience each week in an approved marketing unit.

Prerequisites: 15 hours of upper-level credit and approval of program director.

MKTG 4389 Independent Studies in Marketing

Credit: 3 | Lecture: 3

Independent directed study in Marketing.

Prerequisites: Approval of instructor, Faculty Chair and Associate Dean required.

MKTG 4391 Selected Topics in Marketing

Credit: 3 | Lecture: 3

Identified by specific title each time course is offered.

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MSCI Military Science

MSCI 3310 Advanced Military Science

Lecture: 0 | Lab: 1

Leadership; preparing combat orders; military instruction principles; small unit tactics; tactical communications; fitness training. Class is designed to prepare students for Advanced Camp. Fitness training required three times per week in addition to class and lab.

Prerequisites: MSCI 2220 or consent of the chair.

MSCI 3320 Advanced Military Science

Lecture: 0 | Lab: 1

Leadership; preparing combat orders; military instruction principles; small unit tactics; tactical communications; fitness training. Class is designed to prepare students for Advanced Camp. Fitness training required three times per week in addition to class and lab.

Prerequisites: MSCI 2220 or consent of the chair.

MSCI 3398 Special Problems

Lecture: 0 | Lab: 1

Prerequisites: junior standing and consent of

department chair.

MSCI 3491 leadership development and assessment course

Lecture: 0 | Lab: 1

Off-campus field training practicum stressing application of leadership management with emphasis on tactical and special military skills. Places students in demanding and stressful leadership situations.

Prerequisites: MSCI 3320 or consent of the chair.

MSCI 4310 Advanced Military Science

Lecture: 0 | Lab: 1

Leadership and command; military law; administration/staff operations and procedures; dynamics of the military team; training management; ethics and professionalism. Fitness training required three times per week in addition to class and lab.

Prerequisites: MSCI 3320 or consent of the chair.

MSCI 4320 Advanced Military Science

Lecture: 0 | Lab: 1

Leadership and command; military law; administration/staff operations and procedures; dynamics of the military team; training management; ethics and professionalism. Fitness training required three times per week in addition to class and lab.

Prerequisites: MSCI 3320 or consent of the chair.

MSCI 4398 Special Problems

Lecture: 0 | Lab: 1

Prerequisites: senior standing and consent of

department chair.

NCBM Non-Course Based Option

NCBI 0001 NCB Integrated Reading and Writing

Students attend a series of workshops designed to enhance critical reading and academic writing skills. Topics include reading comprehension, application of prior learning, and strategies for approaching college writing.

Prerequisites: By placement. Corequisites: WRIT 1301

NCBM 0001 NCB MATH

Students move through a series of content modules using a mastery learning approach in a lab environment. Topics include solving systems of equations, applications involving systems of equations, solving radication and quadratic equations and functions.

Prerequisites: By placement.

Corequisites: MATH 1314 or MATH 1332

NCBR 0001 NCB Reading

Students attend a series of workshops designed to enhance reading skills. Topics include literary analysis, analyzing author's use of language, surmising inferences in a text or texts, and identifying main ideas and supporting details. Workshops are assigned based on individual student needs. Students must demonstrate mastery of topics assigned as they progress through the workshop series.

Prerequisites: By placement. Corequisites: WRIT 1301

NCBW 0001 NCB Writing

Students attend a series of workshops designed to enhance writing skills. Topics include understanding sentence structure and sentence logic, mastering agreement, and learning strategies for essay revision. Workshops are assigned based on individual student needs. Students must demonstrate mastery of topics assigned as they progress through the workshop series.

Prerequisites: By placement. Corequisites: WRIT 1301

NURS Nursing

NURS 3309 Role Transition

Credit: 3 | Lecture: 3 | Lab: 0

Explores the transition of the registered nurse to the role of the baccalaureate nurse. Emphasis is placed on demonstration of professionalism, leadership, critical thinking, clinical reasoning and application of the nursing process in the care of culturally diverse populations across the lifespan and at various stages of the wellness/illness continuum. Roles of the nurse as member of the profession, provider of patient–centered care, patient safety advocate and member of the interdisciplinary team will be explored.

Prerequisites: RN license

NURS 3310 Legal and Ethical Issues

Credit: 3 | Lecture: 3 | Lab: 0

Identifies current ethical and legal issues facing nursing today. Explores basic legal and ethical principles and value formation. The role of the state board of nursing in the regulation of nursing practice is reviewed along with landmark court cases affecting nursing practice.

Prerequisites: RN license

NURS 3311 History and Theories of Nursing Credit: 3 | Lecture: 3 | Lab: 0

Explore the historical development of nursing. Introduction of nursing theorists and how nursing theories influence nursing practice today.

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NURS 3313 Community Health Nursing Credit: 3 | Lecture: 3 | Lab: 0

Provides an overview of the delivery of nursing care in a variety of community-based settings. Examination of spiritual, cultural, and socioeconomic factors and their impact on the health care of individuals, families, communities, and populations. Role of the nurse as patient advocate within an interdisciplinary team for health promotion and disease prevention for at-risk populations.

NURS 3314 Trends and Issues in Nursing Practices

Credit: 3 | Lecture: 3 | Lab: 0

Current professional, political, and social issues and trends that affect the nursing profession today and in the future. Strategies for individual and collective participation in decisions that influence professional nursing practice and health care delivery will be explored.

NURS 3323 Community Health Nursing Project Credit: 3 | Lecture: 3 | Lab: 0

Provides the opportunity to apply principles and methods for comprehensive assessment, program planning and intervention in an identified population. Focus is on the application of the knowledge and skills of community health nursing.

Prerequisites: NURS 3313

NURS 4313 Nursing Research Credit: 3 | Lecture: 3 | Lab: 0

Introduces students to the research process and provides students with the knowledge and competence needed to critique a research article and to apply research to support their evidenced-based practice.

NURS 4314 Advanced Leadership and Management

Credit: 3 | Lecture: 3 | Lab: 0

This course introduces students to the research process and will provide students with the knowledge and competence needed to critique a research article and to apply research to support their evidenced-based practice.

NURS 4324 Advanced Leadership and Management Practicum

Credit: 3 | Lecture: 3 | Lab: 0

Emphasis critical thinking and clinical reasoning in the application of the leader/manager role. Clinical experience will focus on the application of leadership and management practices, including organization, planning, staffing, directing and controlling resources.

Corequisites: NURS 4314

NURS 4389 Independent Study in Nursing Credit: 3 | Lecture: 0 | Lab: 0

Advanced instructional concepts, methods, and technologies in teaching and administering secondary level physical education programs.

PHIL Philosophy

PHIL 1301 Introduction to Philosophy

Credit: 3 | Lecture: 3 | Lab: 0

A study of major issues in philosophy and/or the work of major figures in philosophy. Topics in philosophy may include theories of reality, theories of knowledge, theories of value, and their practical applications.

PHIL 3321 Logic

Credit: 3 | Lecture: 3 | Lab: 0

An investigation of traditional approaches to correct and incorrect reasoning. The application of logic to our "everyday world" is an integral part of the course.

PHIL 3331 Ethics

Credit: 3 | Lecture: 3 | Lab: 0

A primary course in assessing ethical questions, judgments, and systems of morality. Readings will address contemporary ethical issues.

PHIL 3343 Philosophy of Knowledge

Credit: 3 | Lecture: 3 | Lab: 0

Historical approach to the theory of knowledge (epistemology). Issues addressed include skepticism, the role of sense perception, and the justification of knowledge claims. Readings include works by Plato, Descartes, Hume, and Kant.

PHIL 4314 The Great Philosophers I

Credit: 3 | Lecture: 3 | Lab: 0

Survey of the ideas of the great philosophers of the Western tradition from ancient Greece through the Middle Ages.

PHIL 4315 The Great Philosophers II

Credit: 3 | Lecture: 3 | Lab: 0

Survey of the ideas of the great philosophers of the modern Western world.

PHIL 4322 Philosophy of Religion

Credit: 3 | Lecture: 3 | Lab: 0

Investigation of the responses of philosophers and theologians to questions about the nature of God and the problem of evil.

PHIL 4389 Independent Study in Philosophy

Credit: 3 | Lecture: 0 | Lab: 0
Permission of instructor required.

PHIL 4391 Selected Topics in Philosophy

Credit: 3 | Lecture: 3 | Lab: 0

Identified by specific title each time course is offered. Topics vary; may be repeated for credit with permission of instructor.

PHYS Physics

PHYS 1101 Laboratory for College Physics I

Credit: 1 | Lecture: 0 | Lab: 1

Laboratory to reinforce topics in College Physics I. Experiments on motion, Newton's laws, wave mechanics, heat and thermodynamics.

Corequisites: PHYS 1301

PHYS 1102 Laboratory for College Physics II

Credit: 1 | Lecture: 0 | Lab: 1

Laboratory to reinforce topics in College Physics II. Experiments conducted on electric fields, DC and AC circuits, magnetism, electromagnetic induction, light and optics.

Corequisites: 1302

PHYS 1301 College Physics I

Credit: 3 | Lecture: 3

Algebra based introductory physics course. Fundamentals of mechanics, kinematics, Newton's laws, conservation of energy, momentum, rigid body motion, waves, sound, fluids, heat and thermodynamics.

Prerequisites: MATH 1314 and Trigonometry or

MATH 2412

Corequisites: PHYS 1101

PHYS 1302 College Physics II

Credit: 3 | Lecture: 3

Algebra based introductory physics course. Electric forces and fields, current, DC and AC circuits, magnetism, electromagnetic induction, electromagnetic waves, light and optics.

Prerequisites: PHYS 1101, PHYS 1301

Corequisites: PHYS 1102

PHYS 2125 Laboratory for University Physics I

Credit: 1 | Lecture: 0 | Lab: 1

Introduction to data acquisition and analysis in physics. Instrumentation used to conduct experiments on motion, kinematics, wave mechanics, sound and heat. Topics also to include statistical methods, graphing, error analysis, computer techniques and reporting results.

Corequisites: PHYS 2325

PHYS 2126 Laboratory for University Physics II Credit: 1 | Lecture: 0 | Lab: 1

Instrumentation used to conduct experiments on electrical circuits and optics. Topics include Ohm's Law, series and parallel circuits, electrical power EMF, RLC Components, optical elements and visual phenomena.

Corequisites: PHYS 2326

PHYS 2325 University Physics I

Credit: 3 | Lecture: 3

Calculus based introductory physics course. Fundamentals of linear and rotational kinematics and dynamics, Newton's laws, work, energy, conservation, gravitation, wave mechanics, sound, fluid mechanics, heat and thermodynamics.

Prerequisites: MATH 2413 Corequisites: PHYS 2125

PHYS 2326 University Physics II

Credit: 3 | Lecture: 3

Calculus based introductory physics course. Electric forces and fields, Gauss' laws, DC and AC circuits, magnetic forces and fields, electromagnetic induction, Maxwell's equations, electromagnetic waves, geometric optics and introduction to modern physics.

Prerequisites: MATH 2414, PHYS 2325

Corequisites: PHYS 2126

PHYS 3103 Laboratory for Modern Physics

Credit: 1 | Lecture: 0 | Lab: 1

This course provides students with the exposure to modern physics phenomena and a variety of experimental techniques which develops a broad background essential for the future understanding of and the performance of research in physics. It includes experimental testing of quantum mechanics and its applications to atomic physics and light.

Corequisites: PHYS 3303

PHYS 3303 Modern Physics

Credit: 3 | Lecture: 3

An introduction to topics in modern physics. Black-body radiation, quantum mechanics, atomic and molecular physics, solid state physics, special relativity, nuclear and particle physics.

Prerequisites: PHYS 2326 or equivalent

Corequisites: PHYS 3103

PHYS 3311 Mathematical Methods for Physics and Engineering I

Credit: 3 | Lecture: 3

Overview of the essential mathematics needed for advanced Physics courses including: Vector Analysis in flat and curved coordinates, Matrices, Group Theory, Infinite Series, Complex Variables and Differential Equations.

Prerequisites: MATH 2315

PHYS 3312 Mathematical Methods for Physics and Engineering II

Credit: 3 | Lecture: 3

A continuation of Mathematical Methods for Physicists I including such topics as Special Functions, Legendre Polynomials, Bessel Functions, Fourier Series, Integral Transforms, Partial Differential Equations, Probability and Calculus of Variations.

Prerequisites: PHYS 3311 or equivalent.

PHYS 3321 Intermediate Mechanics Credit: 3 | Lecture: 3

This course is an advanced undergraduate study of the classical motion of particles according to Newton's Theory. In this course we study Rectilinear motion, Oscillations, Noninertial Reference Systems, Central Forces, Systems of Particles and Rigid Body Motion.

Prerequisites: PHYS 3303 or equivalent.

PHYS 3331 Intermediate Electromagnetism Credit: 3 | Lecture: 3

A thorough introduction to electrostatics, magnetostatics and electrodynamics. Practical examples and some demonstration experiments will be used to connect the elegant mathematical theory of electromagnetism with physical intuition.

Prerequisites: PHYS 3303 or equivalent.

PHYS 3342 Quantum Theory

Credit: 3 | Lecture: 3

Experimental basis of quantum theory. Postulates of quantum mechanics. Uncertainty principle. Operator methods and the wave equation, Time-independent Schrodinger equation, Wave-equation in three dimensions, Angular momentum and the Hydrogen atom. *Prerequisites: PHYS* 3303 or equivalent.

PHYS 3351 Thermodynamics & Statistical Mechanics

Credit: 3 | Lecture: 3

Temperature, heat and work, thermodynamic properties of gases, solids and solutions; homogeneous and heterogeneous equilibria; thermodynamics of electrochemical cells; statistical thermodynamics; calculation of thermodynamic properties; chemical kinetics.

Prerequisites: PHYS 3303 or equivalent.

PHYS 4189 Independent Study in Physics

Credit: 1 | Lecture: 1

Prerequisites: Approval of instructor, chair and associate dean.

PHYS 4195 Cooperative Education Work Term Credit: 1 | Lecture: 1

Educational paid work assignment by a student in the field of career interest and course of study. A technical report will be required at the end of the semester. (Specific requirements are noted in the Cooperative Education Catalog description). Prerequisites: Approved Candidate Plan of Study, completed cooperative education file and approval of associate dean and Director of Cooperative Education.

PHYS 4322 Statics and Mechanics of Materials Credit: 3 | Lecture: 3

This course introduces students to the fundamental principles and methods of structural mechanics. Topics covered include: static equilibrium, force resultants, support conditions, analysis of determinate planar structures (beams, trusses, frames), stresses and strains in structural elements, states of stress (shear, bending, torsion), statically indeterminate systems, displacements and deformations, introduction to matrix methods, elastic stability, and approximate methods.

Prerequisites: PHYS 2325

PHYS 4333 Special Relativity

Credit: 3 | Lecture: 3

In this course we derive Einstein's theory of special relativity, Lorentz transformations and relativistic electrodynamics using tensor analysis and spacetime diagrams.

Prerequisites: PHYS 3331 or Instructor approval.

PHYS 4352 Fluids and Heat Transfer Credit: 3 | Lecture: 3

The course introduces fluid mechanics and heat transfer. The fluid mechanics section includes the flow of gases and liquids through tubing and various kinds of process apparatus. The flow of bubbles in liquids and drops in gases will also be discussed along with the flow of gases and liquids through packed and fluidized particle beds. Bernoulli's equation will be used. The heat transfer section includes heat transfer by conduction, convection and radiation in liquids, gases and solids.

Prerequisites: PHYS 2325, PHYS 2326

PHYS 4362 Fundamentals of Astroparticle Physics

Credit: 3 | Lecture: 3

Topics include: Introduction to high energy physics, symmetries and conservation rules, neutrino astrophysics, particle cosmology and astrophysics.

Prerequisites: PHYS 3303 or equivalent.

PHYS 4371 Undergraduate Physics Research

Credit: 3 | Lecture: 3

Supervised research in Physics for undergraduate students.

Prerequisites: Instructor approval required.

PHYS 4372 Research Seminar

Credit: 3 | Lecture: 3

A study of current physics, space science and engineering research projects conducted in the format of a seminar class.

PHYS 4379 Internship in Physics

Credit: 3 | Lecture: 3

Supervised work experience in an approved industrial firm or government agency. Written and oral report required.

Prerequisites: 15 hours of upper-level credit; approval by adviser and associate dean.

PHYS 4389 Independent Study in Physics

Credit: 3 | Lecture: 3

Prerequisites: Approval of instructor, chair and associate dean.

PHYS 4391 Selected Topics in Physics

Credit: 3 | Lecture: 3

Identified by specific title each time course is offered.

POLS Political Science

POLS 2305 Federal Government

Credit: 3 | Lecture: 3 | Lab: 0

Origin and development of the U.S. Constitution, structure and powers of the national government including the legislative, executive, and judicial branches, federalism, political participation, the national election process, public policy, civil liberties, and civil rights.

POLS 2306 Texas Government

Credit: 3 | Lecture: 3 | Lab: 0

Origin and development of the Texas constitution, structure and powers of state and local government, federalism, and intergovernmental relations, political participation, the election process, and the political culture of Texas.

POLS 3301 Contemporary Issues in Political

Science

Credit: 3 | Lecture: 3 | Lab: 0

Examination of current issues and problems in American and international politics.

POLS 3331 Legislative Process

Credit: 3 | Lecture: 3 | Lab: 0

Functions of the United States Congress and the Texas Legislature; legislative relationships with other sectors of government.

POLS 3332 State and Local Government

Credit: 3 | Lecture: 3 | Lab: 0

Analysis of state and local government with special emphasis on the Texas State Legislature and the Houston City Council.

POLS 3361 Politics and Film

Credit: 3 | Lecture: 3 | Lab: 0

Relationship between film and politics with special attention given to the role of film in the transmission of political information and ideas.

POLS 4312 Race and Ethnic Politics

Credit: 3 | Lecture: 3 | Lab: 0

Examination of relationship between racial and ethnic minorities and the American political system.

POLS 4313 Civil Liberties in America

Credit: 3 | Lecture: 3 | Lab: 0

Factors and forces that have altered the scope of civil liberties in the U.S.; history and analyses.

POLS 4314 Chief Executive

Credit: 3 | Lecture: 3 | Lab: 0

Constitutional, political, and administrative responsibilities of chief executives in government in comparison to the President of the United States.

POLS 4315 Judicial Process

Credit: 3 | Lecture: 3 | Lab: 0

The role of law, lawyers, and judges in influencing social and political change in America; history and analyses.

POLS 4317 Voting and Elections

Credit: 3 | Lecture: 3 | Lab: 0

Analysis of electoral behavior in the United States including determinants of the vote, election turnout, issues and elections, and media

in elections.

POLS 4342 International Relations

Credit: 3 | Lecture: 3 | Lab: 0

Analysis of the major theoretical approaches to international politics; explores important historical and contemporary questions and debates in international affairs.

POLS 4351 Public Administration

Credit: 3 | Lecture: 3 | Lab: 0

Concepts of control, productivity, and organizational design and structure; human behavior in organizations; administrative responsibility.

POLS 4354 Comparative Political Systems

Credit: 3 | Lecture: 3 | Lab: 0

Planning outcomes of government action in countries other than the U.S.; implementation analysis; instruments for political participation. *Prerequisites: POLS 4351 or equivalent*

POLS 4355 Political Philosophy

Credit: 3 | Lecture: 3 | Lab: 0

This course provides a frame of reference for classifying and assessing the merits of individual political theories in terms of their philosophical foundations.

POLS 4356 Political Economy

Credit: 3 | Lecture: 3 | Lab: 0

A broad survey of major debates in political economy; an analysis of the creation, evolution, and reform of market institutions.

POLS 4360 Senior Seminar

Credit: 3 | Lecture: 3 | Lab: 0

A capstone course required of graduating political science majors, which provides an overview of the discipline.

POLS 4374 Pre-Law Seminar and LSAT Preparation

Credit: 3 | Lecture: 3 | Lab: 0

A test-taking intensive course designed to prepare students for the LSAT and law school.

POLS 4380 Internship in Government and Politics

Credit: 3 | Lecture: 0 | Lab: 0

A supervised, onsite internship in a political science capacity. Permission of instructor required. This course may be repeated once for credit for a total of six hours.

POLS 4389 Independent Study in Political Science

Credit: 3 | Lecture: 0 | Lab: 0
Permission of instructor required.

POLS 4391 Selected Topics in Political Science

Credit: 3 | Lecture: 3 | Lab: 0

Identified by specific title each time course is offered. Topics vary; may be repeated for credit with permission of instructor.

PSLD Public Service Leadership

PSLD 4325 Budgeting in Public Service

Credit: 3 | Lecture: 3 | Lab: 0

Examination of the theory and practice of budgeting in the public setting.

PSLD 4326 Human Resources

Credit: 3 | Lecture: 3 | Lab: 0

Problems and practices in human resource management; selection, placement, evaluation, promotion, and termination in the public sector.

PSLD 4327 Organizational Behavior

Credit: 3 | Lecture: 3 | Lab: 0

This course exposes students to advanced behavioral science theories and applications in management and draws from numerous disciplines including law, psychology, sociology, economics, organization theory, and statistics.

PSLD 4341 Cultural Competence

Credit: 3 | Lecture: 3 | Lab: 0

Emphasis of cross-cultural awareness to deepen students' understanding of the diversity of life ways, and structures that shape our global community.

PSLD 4342 Project Management

Credit: 3 | Lecture: 3 | Lab: 0

Examination of organization, planning, and implementation of activities related to a project. Provides practical knowledge on managing project scope, schedule, and resources.

PSLD 4343 Public Service Management

Credit: 3 | Lecture: 3 | Lab: 0

Overview of basic theories of administrative organization, relationships, and behavior. How to structure, manage, direct, and control units within fire service organizations.

PSLD 4344 Public Service Leadership

Credit: 3 | Lecture: 3 | Lab: 0

Examination of determinants and consequences of effective and ineffective leadership in fire service organizations.

PSLD 4345 Strategic Planning

Credit: 3 | Lecture: 3 | Lab: 0

Strategic planning and facilitation of organizational change in fire service organizations.

PSLD 4346 Organizational Communication

Credit: 3 | Lecture: 3 | Lab: 0

Examination of general communication processes and dynamics within fire service organizations.

PSLD 4347 Managerial Issues in Diversity

Credit: 3 | Lecture: 3 | Lab: 0

Exploration of the ideas necessary for leading a diverse workforce successfully.

PSLD 4348 Crisis and Emergency Management

Credit: 3 | Lecture: 3 | Lab: 0

The focus of this course is to provide students with an understanding and overview of crisis management and the constituent elements and implications of crises that professional may face on the personal, work, local, regional, national, and international levels.

PSLD 4349 Ethics and Law

Credit: 3 | Lecture: 3 | Lab: 0

Examination of the unique ethical challenges faced by leaders with an emphasis on building ethical competency while investigating the legal aspects.

PSLD 4350 Senior Seminar: Executive Coaching

Credit: 3 | Lecture: 3 | Lab: 0

Course covers aspects of coaching within organizations, including leadership development, aligning coaches with business strategies, defining the role of the internal coach, coaching for leadership, performance in organizations, coaching teams, and organizational coaching via phone and online.

PSLD 4351 Research Methods and Design

Credit: 3 | Lecture: 3 | Lab: 0

Survey of research methods and statistics for the public service leadership and human sciences students.

PSLD 4389 Independent Study in Public Service Leadership

Credit: 3 | Lecture: 0 | Lab: 0
Permission of instructor required.

PSLD 4391 Selected Topics in Public Service Leadership

Credit: 3 | Lecture: 3 | Lab: 0

Identified by specific title each time course is offered. Topics vary; may be repeated for credit with permission of instructor.

PSYC Psychology

PSYC 1100 Learning Frameworks Credit: 1 | Lecture: 1 | Lab: 1

An inquiry around the broad, interdisciplinary concepts of civic engagement and citizenship for students to explicitly examine and engage in advanced critical thinking for university study. This course promotes intellectual readiness by helping students build and find the resources to become personally responsible and active members of the university community, their education, and their word.

PSYC 1300 Learning Frameworks Credit: 3 | Lecture: 3 | Lab: 1

An inquiry around the broad, interdisciplinary concepts of civic engagement and citizenship for students to explicitly examine and engage in advanced critical thinking and cognition, acquisition of resources, introduction to research, and service learning.

PSYC 2301 Introduction to Psychology

Credit: 3 | Lecture: 3 | Lab: 0

Survey of the major psychological topics, theories, and approaches to the scientific study of behavior and mental processes.

PSYC 2314 Lifespan and Growth Development

Credit: 3 | Lecture: 3 | Lab: 0

Lifespan Growth and Development is a study of social, emotional, cognitive and physical factors and influences of a developing human from conception to death.

PSYC 3311 Careers and Writing in Psychology

Credit: 3 | Lecture: 3 | Lab: 0

This course covers careers in psychology, provides experience with preparing for job searches and graduate school application process, and introduces students in APA style writing in the social sciences. For Psychology majors only. Psychology majors should take this course in the first semester of their junior year at the latest.

PSYC 3315 Psychological Thinking

Credit: 3 | Lecture: 3 | Lab: 0

Focuses on gaining skills necessary to understand and critique issues and research from a psychological perspective. Emphasis will be on critical thinking and expression of ideas, APA style, and journal reading. Psychology majors must take this course in the first semester of their junior year.

Prerequisites: PSYC 2301 Pre- or Co-requisite: PSYC 3311

PSYC 3321 Learning

Credit: 3 | Lecture: 3 | Lab: 1

Basic principles of learning and how they apply to human behavior.

PSYC 3327 Practicum in Peer Mentoring and Leadership

Credit: 3 | Lecture: 0 | Lab: 0

This upper-level course will focus on applying the tenets of critical thinking to higher education students' success and development through the practice of peer mentoring. This is a rigorous course using research from the fields of psychology and higher education within service learning.

Prerequisites: Students must have completed 45 credit hours and must have a 2.75 G.P.A.

PSYC 3331 Theories of Personality

Credit: 3 | Lecture: 3 | Lab: 0

Theories of the origins, structure, and dynamics of personality; emphasis on the "normal" personality.

PSYC 3332 Family Psychology

Credit: 3 | Lecture: 3 | Lab: 0

Overview of family psychology. Topics include family systems, family health, the family life cycle, and family violence.

PSYC 3333 Human Sexuality

Credit: 3 | Lecture: 3 | Lab: 0

Exploration of psychological, biological, and cultural viewpoints on sexual behavior, including research on attraction, gender, sexual dysfunction, sexual variations, sexual orientation, and sexual coercion.

PSYC 3334 Drugs and Behavior

Credit: 3 | Lecture: 3 | Lab: 0

Mechanisms and effects of alcohol, opiates, sedatives, tranquilizers, stimulants, psychedelics, and other psychotropic drugs; problems of abuse and attempts at control and education.

PSYC 3335 Behavioral Pharmacology Research Credit: 3 | Lecture: 0 | Lab: 3

Laboratory investigation of drug/brain/behavior relationships in the rat. Readings from primary research literature, laboratory experiments, and research reports. Permission of instructor required.

PSYC 3336 Behavioral Neuroscience Research Credit: 3 | Lecture: 0 | Lab: 3

Laboratory investigation of brain/behavior relationships in the rat. Readings from primary research literature, laboratory experiments, and research reports. Permission of instructor required.

PSYC 3341 Human Factors Psychology

Credit: 3 | Lecture: 3 | Lab: 0

Covers how users should be included in design process including needs analysis, requirements writing, iterative testing of low/medium/high fidelity prototypes, and implementation.

PSYC 4127 Practicum in Applied Behavior Analysis

Credit: 1 | Lecture: 0 | Lab: 0

Supervised application of behavioral principles and methods in community settings. Permission of instructor required.

PSYC 4189 Independent Study in Psychology

Credit: 1 | Lecture: 0 | Lab: 0

Permission of instructor required. May be taken for 1 hour of credit. For 3 hours of Independent Study credit, students should enroll in PSYC 4389.

PSYC 4191 Selected Topics in Psychology

Credit: 1 | Lecture: 1 | Lab: 0

Identified by specific title each time course is offered. Topics vary; may be repeated for credit with permission of instructor.

PSYC 4227 Practicum in Applied Behavior Analysis

Credit: 2 | Lecture: 0 | Lab: 0

Supervised application of behavioral principles and methods in community settings. Permission of instructor required.

PSYC 4308 Perspectives in Women's and Gender Studies

Credit: 3 | Lecture: 3 | Lab: 0

General information on the wide range of issues related to the status of women. Women's Studies Course.

PSYC 4311 Social Psychology Credit: 3 | Lecture: 3 | Lab: 0

Attitudes, social cognition, personal perception, self, social influence, relationships, prejudice, helping, and aggression. Theories, research, and application. (Cross-listed with SOCI 4311.)

PSYC 4313 Tests and Measurements

Credit: 3 | Lecture: 3 | Lab: 0

Informal and standardized tests of achievement, intelligence, adjustment, and aptitude.

PSYC 4314 Child Psychology Credit: 3 | Lecture: 3 | Lab: 0

Cognitive, social, and emotional development of children; psychoanalytic, behavioristic, and Piagetian approaches.

PSYC 4315 Adolescent Psychology

Credit: 3 | Lecture: 3 | Lab: 0

Problems of role and identity in relation to adolescents' needs for acceptance, autonomy, and intimacy; special attention will be given to topics such as sexual maturation, love and friendship, and drug abuse.

PSYC 4316 Brain and Behavior

Credit: 3 | Lecture: 3 | Lab: 0

The biological basis of how one thinks, feels, and acts.

PSYC 4318 Sensation and Perception

Credit: 3 | Lecture: 3 | Lab: 0

This course will expose students to the complexities and mechanism of human perception. Class will focus not only on the details of human perception but also the application of such knowledge. The design of the course will utilize applied learning techniques and will involve work outside the classroom.

PSYC 4321 Applied Behavior Analysis I

Credit: 3 | Lecture: 3 | Lab: 0

Second course in a 4-course sequence to prepare students for the Board Certified Assistant Behavior Analyst (BCaBA) exam. This course covers the essential components of behavior change and specific behavior change procedures. *Prerequisites: Pre- or Co-requisite: PSYC* 3321

PSYC 4322 Applied Behavior Analysis II Credit: 3 | Lecture: 3 | Lab: 0

Third course in a 4-course sequence to prepare students for the Board Certified Assistant Behavior Analyst (BCaBA) exam. Topics include: use of learning principles in applied areas such as education, business, health and human services, behavior change systems and management; and professional issues in behavior analysis.

Prerequisites: PSYC 4321

PSYC 4323 Research and Practice in Behavior Analysis

Credit: 3 | Lecture: 3 | Lab: 0

This course covers data analysis, research methods, ethics, and professional issues in behavior analysis. The course also will help prepare students to sit for the Board Certified Assistant Behavior Analyst (BCaBA) exam. Prerequisites: PSYC 3321 and Pre- or Co-requisite: PSYC 4321.

PSYC 4327 Practicum in Applied Behavior Analysis

Credit: 3 | Lecture: 0 | Lab: 0

Supervised application of behavioral principles and methods in community settings. Students may enroll twice in this course for up to "six hours credit".

Prerequisites: Pre- or Co-requisites: PSYC 3321 and permission of instructor required.

PSYC 4332 Introduction to Industrial/ Organizational Psychology

Credit: 3 | Lecture: 3 | Lab: 0

Overview of the issues, problems, and practices in industrial/organizational psychology. Topics include work group dynamics, attitudes, job analysis, employee selection, performance appraisal, training, and organizational development.

PSYC 4334 Psychology of Women

Credit: 3 | Lecture: 3 | Lab: 0

The development of sex differences and sex roles; modern viewpoints on gender-appropriate behavior. Women's Studies Course.

PSYC 4337 Violence Against Women

Credit: 3 | Lecture: 3 | Lab: 0

Global perspectives of violence against women by men. Topics include rape, sexual abuse, incest, female genital mutilation, battering, sexual slavery, and sexual harassment. (Crosslisted with WGST 4337.)

PSYC 4341 Human Factors Psychology

Credit: 3 | Lecture: 3 | Lab: 0

Covers how users should be included in design process including need analysis, requirements writing, iterative testing of low/medium/high fidelity prototype, and implementation.

PSYC 4348 Development of Gender and Racial Identity

Credit: 3 | Lecture: 3 | Lab: 0

Explores how children and adolescents come to understand gender and race and with their changing understanding, how they incorporate gender and race into their self-concept, and use them to define/categorize others.

PSYC 4349 Psychology of Latina/os in the U.S. Credit: 3 | Lecture: 3 | Lab: 0

Examination of the ways gender, race, culture, immigration, and social class shape the psychology of Latina/os in the United States. The course will consider identity development as a psychological construct and will explore identity formation of individual Latina/os as well as group identity for multiple sub-groups of Latina/os (e.g., Mexican, Puerto Rican, Cuban, Dominican, etc.)

PSYC 4351 Abnormal Psychology

Credit: 3 | Lecture: 3 | Lab: 0

Neurotic and psychotic personality patterns; etiology, symptoms, diagnosis, and correctional methods and institutions viewed from a psychological perspective.

PSYC 4356 The Aging Experience

Credit: 3 | Lecture: 3 | Lab: 0

Examines cross-cultural differences, retirement, generational issues, death and dying, and political and social implications of the aging experience for today's and tomorrow's elderly. (Cross-listed with SOCI 4356.)

PSYC 4370 Nonexperimental Methods and Statistics

Credit: 3 | Lecture: 3 | Lab: 0

This course will introduce you to the procedures for conducting nonexperimental, correlational and qualitative, research in psychology. We will discuss nonexperimental methods and the appropriate procedures for analyzing nonexperimental data.

PSYC 4371 Experimental Methods and Statistics Credit: 3 | Lecture: 3 | Lab: 0

This course will introduce you to the procedures for conducting experimental research in psychology. We will discuss experimental method and the appropriate statistical procedures for analyzing experimental data.

PSYC 4372 Seminar in Women's Studies Credit: 3 | Lecture: 3 | Lab: 0

An advanced course in Women's Studies, designed to acquaint the student with contemporary issues in feminist scholarship across the disciplines. (Cross-listed with HUMN 4372, HUMN 5732, and PSYC 5732.)

Prerequisites: Any previous Women's Studies course.

PSYC 4375 Personal Stress Management

Credit: 3 | Lecture: 3 | Lab: 0

Various methodologies for stress management emphasizing personal applications.

PSYC 4382 Cognitive Psychology

Credit: 3 | Lecture: 3 | Lab: 0

An empirical and theoretical examination of human cognitive processes. Possible topics include perception, memory, problem solving, and artificial intelligence.

PSYC 4389 Independent Study in Psychology

Credit: 3 | Lecture: 3 | Lab: 0

Permission of instructor required. May be taken for 3 hours of credit. For 1 hour of Independent Study credit, students should enroll in PSYC 4189.

PSYC 4391 Selected Topics in Psychology

Credit: 3 | Lecture: 3 | Lab: 0

Identified by specific title each time course is offered. Topics vary; may be repeated for credit with permission of instructor.

PSYC 4392 Capstone in Psychology

Credit: 3 | Lecture: 3 | Lab: 0

This course is designed for psychology majors as a capstone experience. It will be a seminar-style class with a rotating list of topics.

Prerequisites: PSYC 2301, PSYC 4370, PSYC 4371

SENG Systems Engineering

SENG 4310 Introduction to Systems Engineering Credit: 3 | Lecture: 3

Overview of the systems engineering discipline. Topics include the systems engineering process, fundamentals of engineering economy and an introduction to probability and expectation with systems engineering applications.

Prerequisites: MATH 2315

SILC Studies in Language and Culture

SILC 4301 Spanish for Bilingual Teachers

Credit: 3 | Lecture: 3 | Lab: 0

Development of advanced reading and writing skills in Spanish with special emphasis on communication with the bilingual community. Course taught in Spanish.

Prerequisites: Fluency in Spanish.

SILC 4302 Introduction to the Study of Languages

Credit: 3 | Lecture: 3 | Lab: 0

Study of phonology, morphology, syntax and

semantics of the English language.

SILC 4310 Foundations of Bilingual and ESL Education

Credit: 3 | Lecture: 3 | Lab: 0

Survey of social, political, economic and educational issues related to the development and implementation of bilingual education and ESL programs.

SILC 4311 ESL Methods

Credit: 3 | Lecture: 3 | Lab: 0

Emphasis on teaching English to second language learners in the ESL classroom and on putting theory into practice.

SILC 4312 Content-Based ESL Credit: 3 | Lecture: 3 | Lab: 0

Issues related to the integration of content with ESL instruction. Field experiences required.

SILC 4313 Language Learning Credit: 3 | Lecture: 3 | Lab: 0

Analysis of language acquisition and second

language learning.

SILC 4315 Theories of American Pluralism

Credit: 3 | Lecture: 3 | Lab: 0

A review of theoretical foundations of pluralism and their impact on mainstream America.

SILC 4316 Bilingual Curriculum in the Content Areas

Credit: 3 | Lecture: 3 | Lab: 0

Study and design of the content area curriculum within a bilingual education program. Course

taught in Spanish and English.

Prerequisites: Fluency in Spanish and SILC 4301.

SILC 4317 Developing Content Literacy in the Bilingual Classroom

Credit: 3 | Lecture: 3 | Lab: 0

Methods of developing English literacy in the bilingual classroom content areas. Emphasis is on the relationship between native language and second language development.

SILC 4318 Linguistic Diversity in Young Children Credit: 3 | Lecture: 3 | Lab: 0

The purpose of this course is to examine the language development of children from birth to age five. Emphasis is placed on first and second language acquisition, the role of the first language, and how second language development can be supported.

SILC 4351 Development of Biliteracy

Credit: 3 | Lecture: 3 | Lab: 0

A comprehensive study of theories and research dealing with the development of biliteracy. Course taught in Spanish and English. Prerequisites: Fluency in Spanish and SILC 4301.

SILC 4389 Independent Study in Bilingual Education/Esl

Credit: 3 | Lecture: 3 | Lab: 0

Prerequisites: Approval of instructor and associate

dean.

SILC 4391 Selected Topics in the Studies of Language and Culture

Credit: 3 | Lecture: 3 | Lab: 0

Identified by title each time course offered.

SOCI Sociology

SOCI 1301 Introduction to Sociology

Credit: 3 | Lecture: 3 | Lab: 0

The scientific study of human society, including ways in which groups, social institutions, and individuals affect each other. Causes of social stability and social change are explored through the application of various theoretical perspectives, key concepts, and related research methods of sociology. Analysis of social issues in their institutional context may include topics such as social stratification, gender, race/ ethnicity, and deviance.

SOCI 1306 Social Problems

Credit: 3 | Lecture: 3 | Lab: 0

Application of sociological principles and theoretical perspectives to major social problems in contemporary society such as inequality, crime, and violence, substance abuse, environmental issues, deviance, or family problems.

SOCI 3312 Criminology

Credit: 3 | Lecture: 3 | Lab: 0

Theories of causation, patterns, and social response. (Cross-listed with CRIM 3312.)

SOCI 3313 Urban and Rural Health

Credit: 3 | Lecture: 3 | Lab: 0

Applies social science perspectives to examine patterns of health and illness unique to urban and rural populations, focusing on health disparities, access to care, environmental inequity, and implications of health policy.

SOCI 3316 Global Sociology Credit: 3 | Lecture: 3 | Lab: 0

Examination of the way the worldwide process of globalization is connected to local economic, political, and cultural practices and identities.

SOCI 3317 Religion and Immigration Studies in Houston

Credit: 3 | Lecture: 3 | Lab: 0

This course will explore the religious diversity of Houston. Of particular interest is the diversity of religious practices new immigrants bring with them to the U.S. This diversity is not limited to variations across religious traditions but diversity within religious traditions as well. (Cross-listed with SOCI 5233.)

SOCI 3335 Deviance

Credit: 3 | Lecture: 3 | Lab: 0

Theories of the existence of deviance in society; management of spoiled identities. (Cross-listed with CRIM 3335.)

SOCI 3351 Political Sociology Credit: 3 | Lecture: 3 | Lab: 0

The social bases of power; strategies for developing political influence; focus of power in America; relations between citizens and authorities; problems of political legitimacy.

SOCI 3352 Urban Sociology Credit: 3 | Lecture: 3 | Lab: 0

The social organization of urban life and the structure of power in communities; urban problems and strategies for change.

SOCI 4180 Honors Statistics Lab Credit: 1 | Lecture: 0 | Lab: 1

Computer lab class that must be taken

concurrently with SOCI 4380.

Prerequisites: Must be Sociology major; must pass entry algebra test during first Honors Statistics class

with score of 80% or higher.

SOCI 4181 Honors Research Methods Lab

Credit: 1 | Lecture: 0 | Lab: 1

Computer lab class that must be taken

concurrently with SOCI 4381.

Prerequisites: Must be Sociology major; must pass entry algebra test during first Honors Methods class with score of 80% or higher.

SOCI 4303 Human Services Credit: 3 | Lecture: 3 | Lab: 0

institutions.

Overview of human services. Includes historical basis, current perspectives, casework terms, and

SOCI 4304 Professional Issues in Human Services

Credit: 3 | Lecture: 3 | Lab: 0

Examination of ethical and legal issues in human services. Includes how to work with culturally diverse populations and issues related to gender and confidentiality.

SOCI 4306 Service Learning

Credit: 3 | Lecture: 3 | Lab: 0

Service Learning is a course designed for students to take an active part in organized experiences that meet actual community needs combined with academic instruction, focusing on critical, reflective thinking and personal and civic responsibility. This course will involve students in activities that address community-identified needs with service integrating academic skills.

SOCI 4308 Perspectives in Women's and Gender Studies

Credit: 3 | Lecture: 3 | Lab: 0

Interdisciplinary topics course in women's and gender studies, topic to be determined by instructor at time of offering. Introduces students to analytical concepts and critical approaches for understanding the lives of women and the construction of gender within larger social, political, and cultural structures. (Cross-listed with HUMN 4308 and PSYC 4308.)

SOCI 4311 Social Psychology

Credit: 3 | Lecture: 3 | Lab: 0

Conformity, mass communication and propaganda, self-justification, prejudice, human aggression, attraction, cooperation and competition theory, research, and application. (Cross-listed with PSYC 4311.)

SOCI 4312 Social Structure: Class, Power, and Status

Credit: 3 | Lecture: 3 | Lab: 0

Various interpretations of America's system of social stratification.

SOCI 4313 Juvenile Delinquency

Credit: 3 | Lecture: 3 | Lab: 0

Individual and community aspects of juvenile delinquency; theories of causes and modes of control. (Cross-listed with CRIM 4313.)

SOCI 4315 The Death Penalty

Credit: 3 | Lecture: 3 | Lab: 0

Introduction to history and development of capital punishment as a social institution. Special focus on issues like deterrence, discrimination, and execution of innocent prisoners. (Cross-listed with CRIM 4315 and SOCI 5135.)

SOCI 4316 Women and the Law

Credit: 3 | Lecture: 3 | Lab: 0

Evolution of women's legal rights in the United States. Examination of contemporary issues in the context of human rights law. Legal status of women in economic, political, and judicial sectors. (Cross-listed with WGST 4316.)

SOCI 4317 Race and the Law

Credit: 3 | Lecture: 3 | Lab: 0

Evolution of legal rights of race/ethnic groups in U.S. from a sociological perspective. Examination of civil rights movement, hate crimes, and Affirmative Action policy.

SOCI 4318 Women of Color in the United States

Credit: 3 | Lecture: 3 | Lab: 0

Focus on the diverse experiences of women of color in the United States, using race, class, and sexuality as analytical tools to explore these experiences.

SOCI 4322 Theories of Society

Credit: 3 | Lecture: 3 | Lab: 0

A review of historical and contemporary statements on the nature of society by philosophers and scientists.

SOCI 4323 Religion in Society

Credit: 3 | Lecture: 3 | Lab: 0

Examination of the major theories of religion in society and empirical research on religious membership and participation; study of issues such as secularization and the role of religion in modern society.

SOCI 4324 Organizations in Society

Credit: 3 | Lecture: 3 | Lab: 0

Study of several aspects of our organizational society such as roles, power, and membership; investigation of many types of organizations and their influence on individuals.

SOCI 4328 Social Conflict and Mediation

Credit: 3 | Lecture: 3 | Lab: 0

Examination of theories of social conflict and application of dispute resolution/mediation techniques to needs of community groups, courts, churches, businesses, and nongovernmental agencies.

SOCI 4329 Egypt in Transition

Credit: 3 | Lecture: 3 | Lab: 0

Course will expose students to culture, history, religion, and politics of Egypt and the Middle East. It explores sociological, historical, and cross-cultural forces shaping modern Egypt.

SOCI 4330 Cultural Study Abroad

Credit: 3 | Lecture: 3 | Lab: 0

Course will expose students to culture, history, religion, and politics of another country. Involves foreign travel and includes prerequisite of semester-long course focusing on the study – broad country. Permission of instructor required.

SOCI 4331 Prison and Society

Credit: 3 | Lecture: 3 | Lab: 0

Correctional institutions in the United States; analysis of their changing roles and functions. (Cross-listed with CRIM 4331.)

SOCI 4332 Sociology of Law Credit: 3 | Lecture: 3 | Lab: 0

Examination of the classic confrontation between the rights of the individual and the welfare of the greater society and an examination of the most emotionally charged and problematic issues from the perspectives of sociological, philosophical, and legal theories.

SOCI 4333 Crisis Intervention

Credit: 3 | Lecture: 3 | Lab: 0

The course is aimed at providing students with basic knowledge of crisis intervention and effective listening skills. The course serves as a prerequisite for the undergraduate practicum in crisis intervention.

SOCI 4334 Criminal Law

Credit: 3 | Lecture: 3 | Lab: 0

Survey of structure and rationale for criminal law; topics include criminal liability, criminal defenses, and types of offenses. (Cross-listed with CRIM 4334.)

SOCI 4335 Social Change and Social Movements

Credit: 3 | Lecture: 3 | Lab: 0

This course will explore macrosocial historical change in American society through protest, innovation, and social movements.

SOCI 4341 Women in Society

Credit: 3 | Lecture: 3 | Lab: 0

A cross-cultural study of the environment, biological and cultural factors in the division of labor and assignment of roles, male and female. Women's Studies Course.(Cross-listed with ANTH 4341 and WGST 4341.)

SOCI 4342 Human Rights and Social Justice

Credit: 3 | Lecture: 3 | Lab: 0

Exploration of conceptions of human rights and of recent attempts to reconcile such conceptions in the context of globalization and from the perspective of social justice.

SOCI 4343 Public Service Management

Credit: 3 | Lecture: 3 | Lab: 0

Overview of basic theories of administrative organization, relationships, and behavior. How to structure, manage, direct, and control units within governmental organizations. (Crosslisted with PSLD 4343.)

SOCI 4344 Public Service Leadership

Credit: 3 | Lecture: 3 | Lab: 0

Examination of determinants and consequences of effective and ineffective leadership in non-profit and governmental organizations. (Crosslisted with PSLD 4344.)

SOCI 4345 Strategic Planning

Credit: 3 | Lecture: 3 | Lab: 0

Strategic planning and facilitation of organizational change in non-profit and governmental organizations. (Cross-listed with PSLD 4345.)

SOCI 4346 Organizational Communication

Credit: 3 | Lecture: 3 | Lab: 0

Examination of general communication processes and dynamics within non-profit and governmental organizations. (Cross-listed with PSLD 4346.)

SOCI 4355 Minorities in America

Credit: 3 | Lecture: 3 | Lab: 0

Economic, political, and social status of minority subcultures; the changing nature of minority/ majority relations. May include Women's Studies content.

SOCI 4356 The Aging Experience

Credit: 3 | Lecture: 3 | Lab: 0

Examines cross-cultural differences, retirement, generational issues, death and dying, and political and social implications of the aging experience for today's and tomorrow's elderly. (Cross-listed with PSYC 4356.)

SOCI 4357 Sociology of Family, Work, and Gender

Credit: 3 | Lecture: 3 | Lab: 0

Exploration of the competing responsibilities of market work and family work in the contemporary United States and the role gender has on both domains.

SOCI 4358 Family and Society

Credit: 3 | Lecture: 3 | Lab: 0

Social and legal foundations of the family as an institution, examined in the context of marriage, sex roles, and child rearing.

SOCI 4359 Family Policy

Credit: 3 | Lecture: 3 | Lab: 0

An in-depth examination of family policy in the U.S. and the tools to analyze critically any family policy.

SOCI 4363 American Immigration and the Immigrant Experience

Credit: 3 | Lecture: 3 | Lab: 0

Examines the history of American immigration with particular emphasis on Asian and Hispanic/Latino migration and explores sociological issues surrounding the contemporary immigration debate in the U.S.

SOCI 4364 Medical Sociology

Credit: 3 | Lecture: 3 | Lab: 0

Examines the sociological dimensions of health, illness, and healing, focusing on health disparities, social causes of health and illness, illness and identity, and the organization and delivery of health care in the U.S. and beyond.

SOCI 4365 Sociology of Mental Health and Illness

Credit: 3 | Lecture: 3 | Lab: 0

An introduction to theoretical and substantive issues concerning mental health and illness, including historical perspectives, current patterns of health and illness, help-seeking behavior, and identity and labeling.

SOCI 4367 Women's Health and Sexuality Credit: 3 | Lecture: 3 | Lab: 0

Focuses on social factors that affect women's health, health care, and medical attitudes toward the female body. We will also explore how social and policy changes can improve or threaten women's health. (Cross-listed with WGST 4335.)

SOCI 4379 Internship in Human Services Credit: 3 | Lecture: 0 | Lab: 0

Students will do one semester field placement in a Human Services agency. Prerequisite: Permission of instructor.

Prerequisites: Permission of instructor.

SOCI 4380 Honors Statistics

Credit: 3 | Lecture: 3 | Lab: 0

Teaches motivated students how to use, understand, and conduct data analysis. Must be taken concurrently with SOCI 4180.

Prerequisites: Must be Sociology major; must pass entry algebra test during first Honors Statistics class with score of 80% or higher.

SOCI 4381 Honors Research Methods

Credit: 3 | Lecture: 3 | Lab: 0

Teaches motivated students how to design, understand, evaluate, and conduct various forms of social research. Must be taken concurrently with SOCI 4181.

Prerequisites: Must be Sociology major; must pass entry algebra test during first Honors Research Methods class with score of 80% or higher.

SOCI 4382 Honors Theories of Society

Credit: 3 | Lecture: 3 | Lab: 0

Exploration of classical sociological thinkers. Limited coverage of major developments in sociological theory since 1930. Course is for motivated Sociology majors only who have completed at least 9 hours of Sociology courses with cumulative GPA of 3.5. Permission of instructor required.

SOCI 4384 Statistics

Credit: 3 | Lecture: 3 | Lab: 1

Teaches students how to use, understand, and

conduct data analysis.

Prerequisites: College Algebra.

SOCI 4385 Research Methods

Credit: 3 | Lecture: 3 | Lab: 0

Teaches students how to design, understand, evaluate, and conduct various forms of social research.

Prerequisites: College Algebra.

SOCI 4389 Independent Study in Sociology

Credit: 3 | Lecture: 0 | Lab: 0

Permission of instructor required.

SOCI 4391 Selected Topics in Sociology

Credit: 3 | Lecture: 3 | Lab: 0

Identified by specific title each time course is offered. Topics vary; may be repeated for credit with permission of instructor.

SPAN Spanish

SPAN 1311 Beginning Spanish I

Credit: 3 | Lecture: 3 | Lab: 0

Spanish language skills in listening, speaking, reading and writing within a cultural framework. Students will acquire the vocabulary and grammatical structures necessary to communicate and comprehend at the beginner level.

SPAN 1312 Beginning Spanish II Credit: 3 | Lecture: 3 | Lab: 0

Continued development of basic Spanish language skills in listening, speaking, reading, and writing within a cultural framework. Students acquire the vocabulary and grammatical structures necessary to communicate and comprehend at the high beginner to low intermediate level.

SPAN 2311 Intermediate Spanish I

Credit: 3 | Lecture: 3 | Lab: 0

The consolidation of skills acquired at the introductory level. Further development of proficiency in listening, speaking, reading, and writing. Emphasis on comprehension, appreciation, and interpretation of the cultures of the Spanish-speaking world.

SPAN 2312 Intermediate Spanish II

Credit: 3 | Lecture: 3 | Lab: 0

The consolidation of skills acquired at the introductory level. Further development of proficiency in listening, speaking, reading, and writing. Emphasis on comprehension, appreciation, and interpretation of the cultures of the Spanish-speaking world.

SPAN 3311 Intensive Spanish II

Credit: 3 | Lecture: 3 | Lab: 0

Focus on the intensive study of spoken and written language to facilitate spontaneity of expression.

Prerequisites: 2000-level Spanish or the equivalent.

SPAN 3312 Intensive Spanish III

Credit: 3 | Lecture: 3 | Lab: 0

Focus on the intensive study of spoken and written language to facilitate spontaneity of expression.

Prerequisites: SPAN 33110r the equivalent.

SPAN 4391 Selected Topics in Spanish

Credit: 3 | Lecture: 3 | Lab: 0

Identified by specific title each time course is offered. Topics vary; may be repeated for credit with permission of instructor.

SPED Special Education

SPED 2301 Introduction to Special Populations

Credit: 3 | Lecture: 3 | Lab: 0

This course provides foundational knowledge of various categories of disabilities and its effects on different variables to include the perspectives of gender, socioeconomic status, cultural responsiveness, and access to the general education curriculum.

Prerequisites: TCED 1301

SPED 4300 Survey of Exceptionalities

Credit: 3 | Lecture: 3 | Lab: 0

The course will provide a study of teaching students with disabilities and diverse needs with an emphasis on making individualized effective instructional decisions.

Prerequisites: SPED 2301 or equivalent

SPED 4311 Assessment in Special Education

Credit: 3 | Lecture: 3 | Lab: 0

A survey of special education assessment procedures with a focus on alternate assessment procedures used in inclusive settings to link assessment and instruction.

Prerequisites: SPED 2301 or equivalent

SPED 4312 Diagnostic Instruction for Learners With Special Needs

Credit: 3 | Lecture: 3 | Lab: 0

Covers the development and application of curricula, materials, methodologies and classroom practices in response to the strengths and needs of all low-performing students in special education and inclusive settings. Field experiences required.

Prerequisites: SPED 2301 or equivalent, SPED 4311 or equivalent, concurrent enrollment in a TCED or LLLS methods course.

SPED 4313 Individualizing Instruction for Students With Disabilities

Credit: 3 | Lecture: 3 | Lab: 0

This course is for undergraduate students only. Covers necessary adaptations to meet the learning needs of exceptional students, for prescriptive models for intervention and ways of observing, recording and responding to behaviors. Field experiences required.

Prerequisites: SPED 2301, SPED 4311, SPED 4312,

SPED 4321, SPED 4332 or equivalents.

SPED 4321 Implementing Positive Behavior Supports

Credit: 3 | Lecture: 3 | Lab: 0

A comprehensive study of related legal and social issues and the implementation of techniques for supporting students with challenging behaviors in home and school settings. Field experiences required.

Prerequisites: SPED 2301

SPED 4332 Early Childhood Special Education

Credit: 3 | Lecture: 3 | Lab: 0

A study of infants and young children with special needs with a focus on the development of IFSPs and transitions from infant to early childhood programs and to general education. Field experiences required.

Prerequisites: SPED 2301

SPED 4333 Advanced Early Childhood Special Education

Credit: 3 | Lecture: 3 | Lab: 0

This course will extend key topics in early childhood special education presented in the SPED 4332/ECED 4332 course, specifically strategies and techniques used by practitioners in early childhood special education settings serving children birth to age five.

SPED 4377 Practicum in Special Education for Young Children

Credit: 3 | Lecture: 3 | Lab: 0

Fieldwork with infants and/or young children with special needs to include school-based, agency-based or private programs.

Prerequisites: Completion of all prior coursework for the Early Childhood Handicapped Endorsement.

SPED 4389 Independent Study of Individual Differences

Credit: 3 | Lecture: 3 | Lab: 0

Prerequisites: Approval of instructor and associate

dean.

SPED 4391 Selected Topics in Special Education

Credit: 3 | Lecture: 3 | Lab: 0

Identified by specific title each time course is

offered.

STAT Statistics

STAT 1342 Elementary Statistical Methods

Credit: 3 | Lecture: 3

Collection, analysis, presentation and interpretation of data; probability, sampling, correlation and regression, analysis of variance and the use of statistical software. Not available for mathematics majors.

Prerequisites: Meet TSI college-readiness standard for Mathematics; or equivalent.

STAT 3308 Computational Statistics

Credit: 3 | Lecture: 3

Descriptive statistics, basic probability concepts, normal distribution, parameter estimation, testing of hypothesis, correlation and regression, statistical computation using Excel.

Prerequisites: MATH 1314 or equivalent. Not available for mathematics majors.

STAT 3334 Probability and Statistics for Scientists and Engineers

Credit: 3 | Lecture: 3

Graphical representation of data, measures of centrality and variability, concepts and rules of probability, discrete probability distribution, normal distribution, sampling distributions, central limit theorem, parameter estimation, testing of hypothesis, two sample methods, analysis of variance, correlation and regression analysis.

Prerequisites: MATH 2413, MATH 2414; Not available for mathematics majors.

STAT 4326 Introduction to Survey Sampling Credit: 3 | Lecture: 3

An introduction to the design of sample surveys and the analysis of survey data. This course emphasizes practical applications of survey methodology. Sample designs covered include simple random sampling' systematic sampling; stratified, cluster and multistage sampling. Analytical methods include sample size determination, ratio and regression estimation and imputation for missing data.

Prerequisites: Consent of Instructor

STAT 4328 Introduction to Statistical Computing Packages

Credit: 3 | Lecture: 3

An introduction to the statistical computing packages, such as Microsoft Excel, Minitab, R, SAS, etc. The course will focus on basic data display (including various plots and tables) and fundamental statistical analysis, such as one and two-sample hypothesis test, simply analysis of variance, simple regression data analysis.

Prerequisites: MATH 2413

STAT 4333 Statistical Computing

Credit: 3 | Lecture: 3 | Lab: 0

Introduction to SAS and R; topics include data management, reporting, graphical displays, macros, statistical analysis and interpretation and related topics.

Prerequisites: STAT 4345 or instructor approval.

STAT 4344 Introduction to Probability

Credit: 3 | Lecture: 3

Sample space, probability function, combinatorics, discrete and continuous random variables, special probability distributions, moment generating function, multivariate distributions and central limit theorem.

Prerequisites: MATH 2414

STAT 4345 Introduction to Statistics

Credit: 3 | Lecture: 3

Sampling distributions, point and interval estimation, hypothesis testing, regression and correlation, nonparametric statistics, analysis of variance.

Prerequisites: MATH/STAT 4344

STAT 4346 Probability for Actuarial Exam P1 Credit: 3 | Lecture: 3

This course is designed to help students prepare for the first actuarial exam preparation. This course consists of introducing/ reviewing concepts and rules of probability and statistics and studying sample actuarial examinations and related material. Students are given sample problems from past actuarial examinations to study outside of class. The solution of these problems and related material are discussed in class.

Prerequisites: MATH/STAT 4344

STAT 4348 Introduction to Financial Math for Exam FM

Credit: 3 | Lecture: 3

This course is designed to help students prepare for the second actuarial exam preparation. This course consists of introducing the basics of sample interest and discount, compound interest and discount and simple annuities and studying sample actuarial examinations and related material. Students are given sample problems from past actuarial examinations to study outside of class. The solution of these problems and related material are discussed in class.

Prerequisites: MATH 2413

STAT 4350 Financial Economics

Credit: 3 | Lecture: 3

A mathematical insight of some fundamental concepts of financial mathematics and financial economics and their application to real world business situations and basic risk management. An introduction to mathematical approach to understanding stochastic calculus, asset pricing, hedging and portfolio theory.

Prerequisites: STAT 4344

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SWEN Software Engineering

SWEN 3320 Engineering Multimedia Software Credit: 3 | Lecture: 3

Course examines object-oriented design and development of multimedia software. At a high level, the course examines the physics, biology and psychology of visual and auditory perception and the implications of these processes for the characterization of multimedia software. At an intermediate level, it discusses the use of various patterns in the design of multimedia software. At a lower level, it discusses different ways of adding multimedia functionality to applications with visual and auditory examples (such as image processing, vector graphics, video, animation, audio processing and musical scores.

Prerequisites: CSCI 1370.

SWEN 3340 Principles of Engineering Software Credit: 3 | Lecture: 3

Study of software design models and methods, design patterns, frameworks, architecture design and component based design. Designing for qualities such as performance, safety, security, reusability, reliability, etc. is covered as well as principles of OO design and OO analysis using UML (Unified Modeling Language). Introduction to topics of aspect oriented design, model driven architectures and service oriented architectures. *Prerequisites: SWEN* 3320.

SWEN 4195 Cooperative Education Work Term Credit: 1 | Lecture: 1

Educational paid work assignment by a student in the field of career interest and course of study. A technical report will be required at the end of the semester. (Specific requirements are noted in the Cooperative Education Catalog description). Prerequisites: Approved Candidate Plan of Study, completed cooperative education file and approval of associate dean and Director of Cooperative Education.

SWEN 4314 Interface Engineering Credit: 3 | Lecture: 3

The user interface of a software product is a key factor which determines whether a software project succeeds or fails. This course assesses current UI design issues and explores innovative approaches to UI design in terms of cognitive engineering, human perception, attention and language. The intent is to develop new design methodologies, experimenting with new hardware devices, prototyping new software systems, exploring new paradigms for interaction and developing models and theories of interaction.

Prerequisites: CSCI 2315.

SWEN 4317 Introduction to Game Design and Development

Credit: 3 | Lecture: 3

Principles of game design and development of

software for computer gaming.

Prerequisites: CSCI 2315

SWEN 4318 Virtual Worlds, Sims and Animation Scripting

Credit: 3 | Lecture: 3

This is a project based course that explores the design and development of Virtual Worlds and Sims using 3-D graphic software and animation scripting. Development work will include oral presentations, peer reviews and project documentation. Students will need their own laptop and me be required to purchase special software.

Prerequisites: A course in data structures, proficiency in programming.

SWEN 4320 Introduction to Software Process and Project Management

Credit: 3 | Lecture: 3

Introduction to Software Process Models, process modeling and improvement; project planning, scheduling and project management. Prerequisites: CSCI 2315.

SWEN 4330 Software Development in Emerging Domains

Credit: 3 | Lecture: 3

Design and implementation of software in emerging new fields of interest. Topics will include software development in robotics and cell phone applications (apps).

Prerequisites: SWEN 3320, SWEN 3340.

SWEN 4342 Software Engineering

Credit: 3 | Lecture: 3

Introduction to Software Engineering. Major phases of the software life cycle are introduced from requirements through maintenance. Prerequisites: A course in programming in a high level language, Data Structures recommended.

SWEN 4343 Current Tools and Innovative **Technologies**

Credit: 3 | Lecture: 3

Review of current software engineering tools used in various lifecycle phases in traditional and novel domains. Survey of current and future trends in software engineering including evidence-based software engineering. Course will involve team work on small projects and oral presentation and project report writing. Prerequisites: A course in programming in a high level language and data structures.

SWEN 4345 Introduction to Personal Software **Process**

Credit: 3 | Lecture: 3

Personal evaluation and practice of the software design process, assessments, modeling and

improving techniques. Prerequisites: CSCI 1320.

SWEN 4365 Senior Project I

Credit: 3 | Lecture: 3

Student must be in last year of study before graduation. Students will research a project topic in a chosen area. Students will be exposed to the process of research by writing a proposal for their senior project based on this research and preliminary and high level designs submitted. Project proposals and design will go through a series of peer reviews with oral presentations and written reports required. Approved project proposals will be developed in Senior Project II.

Prerequisites: Approval of instructor.

SWEN 4366 Senior Project II

Credit: 3 | Lecture: 3

Projects accepted and begun in Senior Project I are continued to completion in Senior Project II. Periodic presentation and peer reviews are required throughout the semester. A prototype implementation, a technical report and a public presentation are required at minimum at the end of semester.

Prerequisites: SWEN 4365 and approval of instructor.

SWEN 4391 Research Topics in SWEN

Credit: 3 | Lecture: 3

Identified by specific title each time course is offered.

SWRK Social Work

SWRK 3301 Introduction to Social Work

Credit: 3 | Lecture: 3 | Lab: 0

Overview of field of social work, including history, philosophy, values, roles, fields of practice, and settings for professional social work practice. Students required to complete 40-hour volunteer placement.

SWRK 3304 Issues and Ethics in Social Work Credit: 3 | Lecture: 3 | Lab: 0

Examination of professional values and behaviors specific to social work as set forth in NASW Code of Ethics and various other codes of ethics for social work professionals.

SWRK 3314 Diversity and Human Behavior in the Social Environment

Credit: 3 | Lecture: 3 | Lab: 0

First of two courses on human behavior and the social environment. Overview of theories and knowledge related to human behavior, growth, and development throughout life cycle with particular attention to human diversity.

Prerequisites: Pre- or Co-requisites: SWRK 3301 and SWRK 3304

SWRK 3317 Social Welfare Policy and Services Credit: 3 | Lecture: 3 | Lab: 0

Examination of social welfare and policies and the impact of policy on client systems of all sizes.

Prerequisites: Pre- or Co-requisite: SWRK 3301 and SWRK 3304

SWRK 3324 Oppression, Diversity, and Social Justice

Credit: 3 | Lecture: 3 | Lab: 0

Overview of theories and knowledge related to social, cultural, and systemic influences on human behavior with particular attention to social and economic justice and persons and groups most affected by oppression.

Prerequisites: Pre- or Co-requisite: SWRK 3301,

SWRK 3304, and SWRK 3317

SWRK 4318 Social Work Practice I

Credit: 3 | Lecture: 3 | Lab: 0

Introduction to theories, skills, values, and techniques for social work assessment, intervention, and practice evaluation with individuals with particular attention to human diversity and multicultural responsiveness. Only available to students admitted to the BSW program and students who have declared minor in Social Work.

Prerequisites: SWRK 3301, SWRK 3304, SWRK 3314, and SWRK 3324; all with a "C" or better. Preferably completion of Overview Requirements (Psychology, Sociology, and/or Anthropology).

SWRK 4319 Social Welfare Policy Analysis

Credit: 3 | Lecture: 3 | Lab: 0

Examination of social welfare policy perspectives, models of policy analysis, and contemporary social service/welfare policies. Only available to students admitted to the BSW program.

Prerequisites: SWRK 4317 with a "C" or better.

SWRK 4328 Social Work Practice II

Credit: 3 | Lecture: 3 | Lab: 0

Introduction to theories, skills, values, and techniques for social work assessment, intervention, and practice evaluation with groups and families with particular attention to human diversity and multicultural responsiveness. Only available to students admitted to the BSW program.

Prerequisites: SWRK 4318 with a "C" or better.

SWRK 4338 Social Work Practice III

Credit: 3 | Lecture: 3 | Lab: 0

Introduction to theories, skills, values, and techniques for social work assessment, intervention, planned change, and practice evaluation with communities and organizations. Only available to students admitted to the BSW program.

Prerequisites: SWRK 4318 with a "C" or better.

SWRK 4363 Experimental Methods and Statistics

Credit: 3 | Lecture: 3 | Lab: 0

This course will introduce you to the procedures for conducting experimental research. We will discuss the experimental method and the appropriate statistical procedures for analyzing experimental data.

SWRK 4370 Nonexperimental Methods and Statistics

Credit: 3 | Lecture: 3 | Lab: 1

This course will introduce you to the procedures for conducting nonexperimental, correlational and qualitative research. We will discuss nonexperimental methods and the appropriate procedures for analyzing nonexperimental data.

SWRK 4389 Independent Study in Social Work

Credit: 3 | Lecture: 0 | Lab: 0
Permission of instructor required.

SWRK 4391 Selected Topics in Social Work

Credit: 3 | Lecture: 3 | Lab: 0

Identified by specific title each time course is offered. Topics vary; may be repeated for credit with permission of instructor.

SWRK 4619 Social Work Internship I Credit: 6 | Lecture: 0 | Lab: 0

First of two concurrent 240-hour generalist social work practice field placements. Requires participation in the Integrative Seminar. Students must have applied for and been accepted into a field placement with the Social Work program in order to register for this course.

Prerequisites: All other coursework must be completed with a "C" or better. Must have approval of the BSW Program and Field Director. Students may be concurrently enrolled in SWRK 4319 and/or Interdisciplinary Overviews. Any variations require prior approval of the Director of Field Education.

SWRK 4629 Social Work Internship II Credit: 6 | Lecture: 0 | Lab: 0

Second of two concurrent 240-hour generalist social work practice field placements.

Prerequisites: All other coursework must be completed. Must have approval of BSW faculty.

TCED Teacher Education

TCED 1301 Exploring Teaching as a Profession Credit: 3 | Lecture: 3 | Lab: 0

This course provides an introduction to the teaching profession and course content is aligned to the State Board for Educator Certification Pedagogy and Professional Responsibilities Standards. Field experiences required.

TCED 1306 Relational Aspects of Learning Credit: 3 | Lecture: 3 | Lab: 0

The social interaction and relational aspects of learning are explored in this course. Various interactional styles and supportive surveys are presented. Discussions are conducted regarding how these aspects of the affective domain of learning impact learner progress in the current public educational system. Observations of teachers interacting with learners in the school are included as reflection points of course papers. Field experience is required.

TCED 2302 Questioning Strategies to Promote Learning

Credit: 3 | Lecture: 3 | Lab: 0

Various types of questions and the purpose of different questioning strategies are present in the course. Assignments that demonstrate application of questioning strategies through simulations with peers are utilized. Inclass discussions on the effectiveness of various questioning strategies will be conducted, as well as, individual research on identified topics related to Bloom's Taxonomy.

TCED 3302 Instructional Practices in Education Credit: 3 | Lecture: 3 | Lab: 0

This course presents an overview of instructional practices used in public education. Observations of lessons taught by veteran teachers in the schools are included to build conceptual and experiential knowledge of common pedagogy. Critical examination of effectiveness of instructional practices is explored through discussion and assignments. Field experience required.

TCED 3304 Social Justice and Critical Issues in Education

Credit: 3 | Lecture: 3 | Lab: 0

Coverage of social issues that currently exist in public schools will be presented and discussed. Socratic discussion circles will serve as one format for exploring issues. Critical examination of potential unexamined biases within learners' own world views are central to course coverage. Reflection in positional papers serve as main assignments.

TCED 4079 Post-Degree Internship in Teaching Credit: 0 | Lecture: 0 | Lab: 0

This internship is restricted to members of UHCL's Alternative Certification Program. Field experiences required in a public school setting. Prerequisites: TCED 4678 and TCED 4679 and approval of the associate dean.

TCED 4100 Core Subjects Teacher Seminar Credit: 1 | Lecture: 1 | Lab: 0

This course is designed to assist EC-6 and 4-8 and candidates seeking core subjects certifications to understand the State and federal rules and standards for their chosen fields. Completion of the course is dependent upon candidates passing all state assessments required for their degree/certification plan. This course must be completed to be eligible for Internship I (TCED 4378).

Prerequisites: Admission to Teacher Education Program and an approved, signed degree or certification plan on file in the COE.

TCED 4102 Secondary (4–8 and 7–12) Content Teacher Seminar

Credit: 1 | Lecture: 1 | Lab: 0

This course is designed to assist 4–8 and 7–12 candidates seeking content–specific certifications to understand the State and federal rules and standards for their chosen fields. Completion of the course is dependent upon candidates passing all state assessments required for their degree/certification plan. This course must be completed to be eligible for Internship I (TCED 4378).

Prerequisites: Admission to Teacher Education Program and an approved, signed degree or certification plan on file in the COE.

TCED 4302 Inquiry Processes and Problem Solving Skills in Education

Credit: 3 | Lecture: 3 | Lab: 0

Various inquiry thinking processes and problem solving skills are explored through actual application exercises in class. Different levels of cognitive development are presented as foundational information that impacts learner readiness for certain thinking processes. Individual research on an inquiry process or problem skill is required.

TCED 4303 Creating Positive Learning Environments in EC-6

Credit: 3 | Lecture: 3 | Lab: 0

Theories and strategies for guiding young children's behavior and for effectively managing EC-6 classroom environments. Focus will be on approaches that promote autonomy in children. *Prerequisites: Prerequisites or Corequisites: INST* 3313, WRIT 3304 or WRIT 3307.

TCED 4304 Creating Positive Learning Environments in 4-8

Credit: 3 | Lecture: 3 | Lab: 0

Theories and strategies for guiding young adolescents' behavior and for effectively managing middle school classroom environments. The class focus will be on understanding the major concepts, principles, theories, and research underlying the philosophical foundations and organizational structure of developmentally appropriate middle-level programs and schools.

Prerequisites: Prerequisites or Corequisites: INST 3313 and one of the following: WRIT 3304, WRIT 3305, WRIT 3307, WRIT 3315.

TCED 4306 Creating Positive Learning Environments in 7-12

Credit: 3 | Lecture: 3 | Lab: 0

Theories and strategies for guiding adolescent learners' behavior and for effectively managing high school classroom environments. Focus will be on approaches that promote autonomy in adolescent learners.

Prerequisites: Prerequisites or Corequisites: INST 3313 and one of the following: WRIT 3305, WRIT 3306, WRIT 3307, WRIT 3315.

TCED 4308 Assessments and Testing in Schools Credit: 3 | Lecture: 3 | Lab: 0

Different types of formative and summative assessments currently used in public education and covered in the course. Additionally, an overview of the types of tests used in local school districts and how they are utilized by educators to measure learner progress is presented and discussed. Mock tests and assessments will provide experiential knowledge of the purpose and impacts of diverse testing designs.

TCED 4321 Social Studies Methods for EC-6 Credit: 3 | Lecture: 3 | Lab: 0

Curriculum planning, instructional activities and assessment techniques for developing social studies knowledge, citizenship and critical thinking skills; emphasis on sound practice and research-based strategies for teaching social studies for EC-6 students. Field experiences required.

Prerequisites: Admission to the Teacher Education Program and successful completion of TCED 4303.

TCED 4322 Science Methods for EC-6 Credit: 3 | Lecture: 3 | Lab: 0

Development of science concepts in EC-6 instruction. An emphasis on curriculum materials and the process approach as a science teaching method. Field experiences required. Prerequisites: Admission to the Teacher Education Program and successful completion of TCED 4303.

TCED 4323 Mathematics Methods for EC-6 Credit: 3 | Lecture: 3 | Lab: 0

Methods of developing students' understanding of mathematics; emphasis on problem solving with manipulative and curriculum materials appropriate for use with EC-6 students. Field experiences required.

Prerequisites: MATH 3302 and admission to the Teacher Education Program and successful completion of TCED 4303.

TCED 4331 Social Studies Methods for Grades 4-8

Credit: 3 | Lecture: 3 | Lab: 0

Curriculum planning, instructional activities and assessment techniques for developing social studies knowledge, citizenship and critical thinking skills; emphasis on best practice and research-based strategies for teaching social studies to students in grades 4–8. Field experiences required.

Prerequisites: Admission to Teacher Education Programn and successful completion of TCED 4304.

TCED 4332 Science Methods for Grades 4-8 Credit: 3 | Lecture: 3 | Lab: 0

Development of science concepts and teaching strategies for grades 4–8. Emphasis on the inquiry approach to teaching science consistent with concepts of cognitive development. Integrated Physics and Chemistry will also be addressed as well as the use of technology in the science classroom. Field experiences required. Prerequisites: Admission to Teacher Education Program and successful completion of TCED 4304.

TCED 4333 Mathematics Methods for Grades 4-8

Credit: 3 | Lecture: 3 | Lab: 0

Methods of developing students' understanding of mathematics. Emphasis on problem solving with manipulative and curriculum materials appropriate for use with students in grades 4–8. Algebraic and graphing technology will be addressed. Field experiences required. Prerequisites: MATH 1315, admission to Teacher Education Program and successful completion of TCED 4304.

TCED 4361 Methods in Secondary Social Studies Credit: 3 | Lecture: 3 | Lab: 0

Strategies for developing social studies activities; emphasis on instructional techniques, content disciplines, local community, values and controversial issues and national trends. Field experiences required.

Prerequisites: Admission to the Teacher Education Program and successful completion of TCED 4306.

TCED 4362 Methods in Secondary Science Credit: 3 | Lecture: 3 | Lab: 0

Strategies for teaching secondary science; emphasis on laboratory management and safety, development of scientific reasoning and issues and trends in secondary science education. Field experiences required.

Prerequisites: Admission to the Teacher Education Program and successful completion of TCED 4306.

TCED 4363 Methods in Secondary Mathematics Credit: 3 | Lecture: 3 | Lab: 0

Strategies for teaching secondary mathematics; emphasis on instructional techniques appropriate for secondary mathematics, development of problem-solving skills and issues and trends in secondary mathematics education. Field experiences required.

Prerequisites: MATH 3304 or equivalent, admission to the Teacher Education Program and successful completion of TCED 4306.

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TCED 4364 Methods in Technology

Credit: 3 | Lecture: 3 | Lab: 0

Strategies for teaching technology applications; emphasis on instructional techniques, development of problem-solving skills and issues and trends in technology applications. Field experiences required.

Prerequisites: Admission to Teacher Education
Program, successful completion of or concurrent

enrollment in TCED 4306.

TCED 4377 THECB Aide Project

Credit: 3 | Lecture: 3 | Lab: 0

Supervised field project under the joint supervision of a public school district and the UHCL Center for Professional Development of Teachers. Student must be enrolled in the Texas Higher Education Coordinating Board (THECB) Aide Project. Field experiences required in a public school setting.

Prerequisites: Admission to Teacher Education Program and approval of the associate dean.

TCED 4378 Pre-Service Internship I

Credit: 3 | Lecture: 3 | Lab: 0

Field experiences required in a public school setting. TCED 4100 or TCED 4102 must be taken prior to consideration for Internship I (TCED 4378).

Prerequisites: Approval of associate dean and completion of WRIT 3307 with a grade of C+ or better.

TCED 4389 Independent Study in Teacher Education

Credit: 3 | Lecture: 3 | Lab: 0

Prerequisites: Approval of instructor and associate

dean.

TCED 4391 Selected Topics in Teacher Education

Credit: 3 | Lecture: 3 | Lab: 0

Identified by title each time course is offered.

TCED 4668 Pre-Service Internship II/Student Teaching- Generalist

Credit: 6 | Lecture: 6 | Lab: 0

This Internship II course is restricted to students in EC-6 Generalist (Early Childhood Concentration) and the 4-8 Generalist programs. Field experiences required in a public school setting.

Prerequisites: TCED 4378 and approval of the associate dean.

TCED 4678 Post-Degree Internship I

Credit: 6 | Lecture: 6 | Lab: 0

Post-baccalaureate internship with joint supervision by the school district where the intern is employed and the UHCL Center for Professional Development of Teachers. Field experiences required in a public school setting. *Prerequisites: Approval of associate dean.*

TCED 4679 Post-Degree Internship II/Student Teaching

Credit: 6 | Lecture: 6 | Lab: 0

Post-baccalaureate internship with joint supervision by the school district where the intern is employed and the UHCL Center for Professional Development of Teachers. Field experiences required in a public school setting. *Prerequisites: Approval of associate dean.*

TCED 4978 Pre-Service Internship II/Student Teaching

Credit: 9 | Lecture: 9 | Lab: 0

Field experiences required in a public

school setting.

Prerequisites: TCED 4378 and approval of the

associate dean.

WGST Women's and Gender Studies

WGST 1301 Gender Matters: Introduction to Women's and Gender Studies

Credit: 3 | Lecture: 3 | Lab: 0

A general introduction to the study of women and gender across academic disciplines, appropriate as a first course for any student interested in the study of gender within their major. This course considers fundamental questions, such as: What is a woman? What is gender? What is sex? How does culture construct gender and gender difference? How do gender, race, class, ethnicity, and sexuality intersect?

WGST 1302 Perspectives in Women's and Gender Studies

Credit: 3 | Lecture: 3 | Lab: 0

Interdisciplinary topics course in women's and gender studies, topic to be determined by instructor at time of offering. Introduces students to analytical concepts and critical approaches for understanding the lives of women and the construction of gender within larger social, political, and cultural structures. Topics vary; may be repeated for credit with permission of instructor.

WGST 3341 Women in American History

Credit: 3 | Lecture: 3 | Lab: 0

Exploration of diversity within the historical gender-specific experience of women's participation in and contributions to the history of the United States.(Cross-listed with HIST 3341.)

WGST 4189 Independent Study in Women's and Gender Studies

Credit: 1 | Lecture: 0 | Lab: 0

Permission of instructor required. May be taken for 1 hour of credit. For 3 hours of Independent Study credit, students should enroll in WGST 4389.

WGST 4312 Women of Color

Credit: 3 | Lecture: 3 | Lab: 0

Focuses on diverse experiences of women of color, using race, class, and sexuality as analytical tools to explore these experiences. Topics vary; may be repeated for credit with permission of instructor.

WGST 4314 Latina Social Movements in the Americas

Credit: 3 | Lecture: 3 | Lab: 0

This course invites students to use the historical record to imagine and analyze gender and the roles of women in Latin America.

WGST 4316 Women and the Law

Credit: 3 | Lecture: 3 | Lab: 0

Evolution of women's legal rights in the United States. Examination of contemporary issues in context of human rights law. Legal status of women in economic, political, and judicial sectors. (Cross-listed with SOCI 4316.)

WGST 4329 History of Feminism

Credit: 3 | Lecture: 3 | Lab: 0

Survey of the development of those reform movements and individuals who shaped the growth of feminism in the 19th- and 20th-century U.S. and the world. May focus on a particular aspect of historical feminism. (Crosslisted with HIST 4329.)

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WGST 4334 Psychology of Women

Credit: 3 | Lecture: 3 | Lab: 0

Development of sex differences and sex roles; modern viewpoints on gender-appropriate behavior.

WGST 4335 Women's Health and Sexuality

Credit: 3 | Lecture: 3 | Lab: 0

Survey of current issues in women's health and sexuality using a life-span perspective. (Crosslisted with SOCI 4367.)

WGST 4337 Violence Against Women

Credit: 3 | Lecture: 3 | Lab: 0

Global perspectives of violence against women by men. Topics include rape, sexual abuse, incest, female genital mutilation, battering, sexual slavery, and sexual harassment. (Crosslisted with PSYC 4337.)

WGST 4341 Women in Society

Credit: 3 | Lecture: 3 | Lab: 0

Cross-cultural study of the environmental, biological, and cultural factors in the division of labor and assignment of roles, male and female. (Cross-listed with ANTH 4341 and SOCI 4341.)

WGST 4348 Development of Gender and Racial Identity

Credit: 3 | Lecture: 3 | Lab: 0

Exploration of how children and adolescents come to understand gender and race, and with their changing understanding how they come to incorporate gender and race into their self-concept and use them to define/categorize others.

WGST 4360 Women in Literature

Credit: 3 | Lecture: 3 | Lab: 0

Heroines from Eve to Beloved; literature constructs the female; emphasis on 19th- and 20th-century works.

WGST 4370 Gender and Identity in the Visual Arts

Credit: 3 | Lecture: 3 | Lab: 0

History, theory, and criticism in relation to issues of gender, sexuality, and identity in the visual arts.

WGST 4372 Seminar in Women's and Gender Studies

Credit: 3 | Lecture: 3 | Lab: 0

An advanced course in Women's and Gender Studies, designed to acquaint students with contemporary issues in scholarship on women's and gender studies across the disciplines. Topics may include feminist theories, methodologies, ethics, and philosophies. Prerequisites: Any previous course with Women's and Gender Studies content.

WGST 4389 Independent Study in Women's and Gender Studies

Credit: 3 | Lecture: 3 | Lab: 0

Permission of instructor required. May be taken for 3 hours of credit. For 1 hour of Independent Study credit, students should enroll in WGST 4189.

WGST 4391 Selected Topics in Women's and Gender Studies

Credit: 3 | Lecture: 3 | Lab: 0

Identified by specific title each time course is offered. Topics vary; may be repeated for credit

with permission of instructor.

WRIT Writing

WRIT 1301 Composition I

Credit: 3 | Lecture: 3 | Lab: 0

Intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis on effective rhetorical choices, including audience, purpose, arrangement, and style. Focus on writing the academic essay as a vehicle for learning, communicating, and critical analysis.

WRIT 1302 Composition II

Credit: 3 | Lecture: 3 | Lab: 0

Intensive study of and practice in the strategies and techniques for developing research-based expository and persuasive texts. Emphasis on effective and ethical rhetorical inquiry, including primary and secondary research methods, critical reading of verbal, visual, and multimedia texts; systematic evaluation, synthesis, and documentation of information sources; and critical thinking about evidence and conclusions. *Prerequisites: WRIT 1301 or equivalent.*

WRIT 3304 Writing for Education

Credit: 3 | Lecture: 3 | Lab: 0

Frequent writing practice with the study of composition theories and strategies for writing as a professional educator. Introduces prospective teachers to methods for evaluating student writing and designing effective writing assignments and instructional materials.

Prerequisites: WRIT 1301 and WRIT 1302 with a "C-" or better and junior-level standing.

WRIT 3305 Writing for the Humanities

Credit: 3 | Lecture: 3 | Lab: 0

Concentrated instruction in the research methods and writing conventions widely used in the humanities, liberal arts, and some social sciences. Careful understanding and interpretation of primary source materials and critical reading of secondary source materials. Strong focus on research.

Prerequisites: WRIT 1301 and WRIT 1302 with a "C-" or better and junior level standing.

WRIT 3306 Writing for the Social Sciences

Credit: 3 | Lecture: 3 | Lab: 0

Designed specifically for students in psychology, social work, criminal justice, anthropology, fitness and human performance, women's studies, and other Social Sciences majors. Covers genres students can expect to encounter in both academic and professional writing situations including paraphrases, summaries, annotated bibliographies, and literature reviews.

Prerequisites: WRIT 1301 and WRIT 1302 with a "C-" or better and junior level standing.

WRIT 3307 Advanced Writing

Credit: 3 | Lecture: 3 | Lab: 0

Explores invention of ideas to strategies appropriate to various kinds of writing. Models of organization, analysis of style, role and importance of mechanics and syntax Prerequisites: Completion of WRIT 1301 and WRIT 1302 with a grade of C- or better and junior-level standing.

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WRIT 3312 Written Communications in Business Credit: 3 | Lecture: 3 | Lab: 0

Theory and practices of business communications: preparation of effective letters, policy statements, procedures, reports, and related documents.

Prerequisites: Completion of WRIT 1301 and WRIT 1302 with a grade of C- or better and junior-level standing.

WRIT 3315 Advanced Technical Writing Credit: 3 | Lecture: 3 | Lab: 0

Advanced approaches to the writing of technical documents for professional audiences: correspondence, proposal reports, manuals, and descriptions.

Prerequisites: Completion of WRIT 1301 and WRIT 1302 with a grade of C- or better and junior-level standing.

WRIT 4310 Writing for the Public: Developing Non-Profit Communication Strategies

Credit: 3 | Lecture: 3 | Lab: 0

Exploration and implementation of the theories and practices of writing and rhetoric that serve the public interest. Focuses on the written and digital forms of communication important to non-profit organizations.

Prerequisites: WRIT 1301 and WRIT 1302 with a C or better and in junior standing.

WRIT 4311 Grant and Proposal Writing

Credit: 3 | Lecture: 3 | Lab: 0

Project-based, service-learning course covering the complete process of grant proposal development: identification of an achievable and fundable project, research and assessment of viable funding sources, proposal writing, budget development, preparation of a full proposal package for submission, and post-award or rejection follow-up with funders

Prerequisites: WRIT 1301 and WRIT 1302 with a C or better and in junior standing.

WRIT 4312 The Rhetoric of Popular Culture Credit: 3 | Lecture: 3 | Lab: 0

Combines rhetorical analysis with critical studies including Marxist, feminist, visual, and mediacentered criticism and queer theory. Through these lenses, students will analyze movies, television, music, public speeches, advertising, and other media.

Prerequisites: WRIT 1301 and WRIT 1302 with a C or better and in junior standing.

WRIT 4313 Graffiti, Texting, and Networked Politics: The Sociolinguistics of Writing

Credit: 3 | Lecture: 3 | Lab: 0

The study of writing as a sociolinguistic object. Examines a new sociolinguistics of globalization with a focus on mobility, multilingualism, and superdiversity.

Prerequisites: WRIT 1301 and WRIT 1302 with a C or better and in junior standing.

WRIT 4314 Collaborative Writing Pedagogy

Credit: 3 | Lecture: 3 | Lab: 0

Introduces students to the theories and practices that inform collaborative pedagogy. Students will learn theories of collaboration, practice methods for one-on-one and small group conferencing, learn research skills, understand formatting styles for different academic disciplines, and practice the interpersonal skills necessary for working with a diverse student population.

WRIT 4391 Selected Topics in Writing

Credit: 3 | Lecture: 3 | Lab: 0

Identified by specific title each time course is offered. Topics vary; may be repeated for credit with permission of instructor.

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