

# 2016-2017 UNDERGRADUATE CATALOG

Courses, Degree Requirements,  
Faculty and General Information



University of Houston  Clear Lake

# UNDERGRADUATE CATALOG 2016-2017

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	Office	*Phone
Academic Records		283-2525
Admissions	S1101	283-2500
Alumni Relations	B1604	283-2021
Bookstore	B1206	283-2180
Business, Dean	B2239	283-3100
Academic Advising	B2111	283-3110
Administration	B2239	283-3100
Career Services	S3109	283-2590
Student Business Services	S1103	283-2170
Counseling Services	S3103	283-2580
Dean of Students	S1201	283-2567
Distance and Off-Campus Education	B1406	283-3031
Education, Dean	B1237	283-3501
Academic Advising	B1231	283-3615
Center for Educational Programs	A190	283-3530
Center for Professional Development of Teachers	B1231	283-3612
Teacher and Professional Certification	B1231	283-3618
Health and Disability Services	S1301	283-2626
Hotline/Building Closures		283-2221
Human Sciences and Humanities, Dean	B1529	283-3300
Academic Affairs	B1529	283-3400
Academic Advising	B1539	283-3333
Intercultural Student Services	S1203	283-2575
International Admissions and Programs	B2123	281-2430
Library	B2402	283-3900

Math Center	S2101	283-3883
Parking Permits	B1636	283-2222
Pearland Campus		212-1700
Police	B1636	283-2222
Registrar	S1109	283-2525
Scholarships	S1105	283-2480
Science and Computer Engineering, Dean	B3611	283-3703
Academic Affairs	B3611	283-3711
Academic Advising	B3611	283-3700
Student Assistance Center	S1102	283-2722
Student Financial Aid	S1105	283-2480
Student Information and Assistance (Bayou Bldg.)	B1632	283-2614
Student Life	S1204	283-2560
Student Publications	B1239	283-2570
Student Services	B2523	283-3025
Student Success Center	S3101	283-2643
Support Center	B2300	283-2828
Computing Information	B2300	283-2828
Online Course Support	B2300	283-2828
Media Services	B2300	283-2828
Veteran Services	S3201	283-3071
Writing Center	S2105	283-2910

**\*Area Code for all numbers is 281.**

A = Arbor Building B = Bayou Building D = Delta Building S = Student Services and Classroom Building

*Requests for information should be directed to the offices or persons above.*

*The university's address for all inquiries is:*

**2700 Bay Area Boulevard, Houston, Texas 77058-1098**

**Main Operator Phone: 281-283-7600**



# THE 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 the National Aeronautics and Space Administration 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 service 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 supporting 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
- 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) calling 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 UHCL's founding chancellor, Alfred R. Neumann. Opening day enrollment totaled 1,069 students and 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 Commission on Colleges of the Southern Association of Colleges and Schools 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 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, William A. Staples. UHCL's shared governance process includes the Faculty Senate, Professional and Administrative Staff Association, Support 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, 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 tips 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, email [library@uhcl.edu](mailto:library@uhcl.edu) or online at [www.uhcl.edu/library](http://www.uhcl.edu/library).

Visitors can receive help formulating effective search queries and identifying the best online resources out of a collection of more than 213 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 go to most academic or public libraries in Texas and check out books. 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 43 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 study rooms and a soundproof quiet study room. The library contains more than 510,000 volumes and 315,000 ebooks, and provides access to 78,600 electronic periodicals. The library has a collection of international films on DVD, and subscribes to several educational video databases which offer up to 38,000 streaming videos. A curriculum library for education students contains K-12 textbooks, 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](mailto:supportcenter@uhcl.edu). Visit [www.uhcl.edu/uct](http://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](http://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
- Webpages for the university, schools, programs, faculty and individual courses ([www.uhcl.edu](http://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 (VPN)
- Software purchase program for current faculty, staff and students that includes Microsoft and Adobe products as well as access to Qualtrics survey software.
- Siemen's telecommunications system for voice communications, including phone mail and fax service for faculty and staff

## UHCL ALUMNI ASSOCIATION

UHCL is committed to its alumni. The Office of Development and Alumni Relations focuses on enhancing the pride, loyalty and engagement of alumni by connecting them to fellow UHCL alumni, parents, 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](http://www.uhcl.edu/alumni) or contact the Office of Development and Alumni Relations at 281-283-2021 or [alumni@uhcl.edu](mailto:alumni@uhcl.edu).

## UNIVERSITY POLICE

The University Police Department is responsible for law enforcement, security and emergency response at UHCL. 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: lock shop 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.UHCLemergency.info](http://www.UHCLemergency.info). For a complete overview of the University Police Department and its services, visit [www.uhcl.edu/police](http://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](mailto:parking@uhcl.edu) or visit [www.uhcl.edu/parking](http://www.uhcl.edu/parking).

# NEW STUDENT ADMISSIONS

## GENERAL INFORMATION

### 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 (p. 33) or Transfer Student (p. 36) admission requirements. However, those who left due to an academic deficiency should follow the university's readmission (p. 39) 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](mailto: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**

High schools' 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 (p. 30).

#### **Application Procedures**

Applicants must indicate on their application for admission all schools attended and 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.

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 DOCUMENT 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 in Applicants with both U.S and International documents (p. 30).

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. Therefore, applicants should consider applying 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.

### ***APPLICANTS WITH BOTH U.S. AND INTERNATIONAL DOCUMENTATION***

Transfer applicants who meet admissions requirements (p. 37) based on their U.S. transfer documentation, are not 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.

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 be automatically accepted to satisfy specific degree requirements for 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. Grades are not transferrable; official grade point averages are 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 application of transfer credit to degree programs.

### ***DEVELOPMENTAL OR REMEDIAL 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 earn 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 appropriate course registration and advisement as well as determination of test assessment waivers, if applicable. (See Transferrable Credit (p. 30)). 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 in the course is the one counted toward fulfillment of degree requirements. However, once a student has satisfied a core course, repeated attempts of the same course does not affect core curriculum satisfaction. Remedial or developmental coursework will not be used.

## ***ENGLISH PROFICIENCY REQUIREMENTS FOR APPLICANTS EDUCATED OUTSIDE OF THE UNITED STATES***

Applicants who were 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 these applicants have reasonable chances to succeed academically based on their abilities to comprehend, speak and write in 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) scores of 6.0 or higher, or
- Official documentation of successful completion of ELS Level 112 Intensive English programs.

\*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.

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

## ***REQUIRED CRITERIA FOR AN ENGLISH PROFICIENCY EXEMPTION***

An English proficiency exemption may apply to applicants who have satisfied at least one of the following requirements:

- Earned high school diplomas from U.S. high schools or have conferred degrees\* from regionally accredited U.S. institutions of higher education (associate, baccalaureate or higher). Please note: Applied Science degrees cannot be used to waive the English proficiency requirement.
- Educated in countries where English is the native language. This exemption refers to applicants 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.
- Present qualifying test scores in the English and writing testing areas from the SAT, ACT, TAKS, STAAR or Stanford Achievement Tests (for deaf students only). Specific exemption information can be obtained by contacting the Office of Admissions. 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.
- Earned 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 do not count toward an English proficiency exemption if they are considered remedial or developmental at the institution where the coursework was taken.

\*Applicants, whose native or first languages are not English, but who have conferred associate's degrees or higher degrees from a native English-speaking country, may request consideration for a waiver of the English proficiency requirement. Those requesting a waiver must submit a written request and

supporting documentation to the Office of Admissions at least 30 days prior to the intended term of enrollment. Appropriate action will be taken only when full documentation is provided.

***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 (see Readmission Process (p. 39)), 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 ADMISSION***

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.

***APPLICATION FEE***

The current Application Fee is:	\$45.00
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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.

## ***WAYS TO BE ADMITTED- FRESHMEN ADMISSION CRITERIA***

### ***AUTOMATIC AND ASSURED ADMISSION***

#### **Automatic Admission**

In compliance with state law, applicants who graduate in the top 10% of their high school class and who successfully complete coursework under a Foundation plan, or the Recommended or Advanced High School Programs 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.

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

#### **Assured Admission**

Applicants who meet the State of Texas Uniform Admission Policy (p. 36) and also meet the requirements below are assured admission to UHCL.

Rank in Class	Minimum SAT Scores*		Minimum ACT Scores
	SAT 1 Total (CR +M) or (ERWS +MSS)*		ACT Composite
Top 11-25 %	950	or	20
Top 26-50 %	1050	or	23

\* 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 (p. 35).

### ***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 address the student's academic ability and preparedness for university-level study.

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 a review through the Admissions Appeal (p. 28) option. 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 (p. 36); and in order to register and enroll for classes, they must also satisfy the state's TSI Requirements (p. 40).

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 (p. 35) or through the Admissions Appeals Process (p. 28).
- **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 (p. 35) or through the Admissions Appeals Process (p. 28). 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 ADMISSIONS 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 a Foundation plan or the 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) or (ERWS +MSS+WLT)

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.

### ***APPLICATION FEE***

The current Application Fee is:	\$45.00
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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***

### ***TRANSFER 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 (p. 33)
30-44	2.25
45+	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 (see Applicants with both U.S. and International Documentation (p. 30)).

### **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. (p. 27)

### ***POST-BACCALAUREATE ENROLLMENT***

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](mailto:connection@uhcl.edu).

## ***BACHELOR OF APPLIED SCIENCE***

### ***BACHELOR OF APPLIED SCIENCE DEGREES (BAS)- TECHNICAL***

UHCL offers the Bachelor of Applied Science in Interdisciplinary Studies (BAS). The BAS degree has five tracks, one in the College of Business, three 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) degree in the College of Business, if they:

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

Students can apply to the following track:

BAS – Healthcare Services

#### **College of Education**

Applicants can be considered for the Bachelor of Applied Science (BAS) degree in the College of Education, if they:

1. Earned 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, and
2. Are eligible to return to the last school attended
3. 2.0 Cumulative GPA required

Students can apply to one of the following degree plans:

- BAS – Educator of Young Children
- BAS – Young Children with Disabilities
- BAS – Early Childhood Program Leadership

College of Science and Engineering

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

1. Earned 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. 2.0 Cumulative GPA required

Students can apply to the following track:

- BAS – Information Technology

## ***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 valid license to practice as an RN in Texas
- 2.0 cumulative GPA and 2.5 cumulative on specific nursing courses

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. See uploading instructions. UHCL's preferred delivery for course work is EDI or SPEEDE download.

## ***READMISSION OR STATUS CHANGE PROCESS***

### ***FORMER UHCL STUDENTS***

Former students (see *Admission Statuses* (p. 27)) seeking readmission after three semesters of non-enrollment should submit the following:

1. Completed Admissions Application
2. Non-refundable application fee (see *Application Fees* (p. 33))
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 ENROLLMENT 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**

(First class day Fall 2013 through Summer 2017)

Mathematics -350

Reading -351

Writing – Essay Score of 5 or Essay Score of 4 and Multiple Choice of 363

### ***TSI ASSESSMENT EXEMPTIONS 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):** A combined critical reading (*reading/writing section for new SAT*) and mathematics (*math section for new SAT*) score of 1070 is required; with a minimum of 500 on the critical reading/reading writing and 500 on the corresponding mathematics/math section (accepted within 5 years from the date of testing). 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.*
- **ACT-(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):** 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 EXEMPTIONS***

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:** 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:** 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 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 (p. 31) 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 to 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.

#### ***LOWER-LEVEL CREDIT***

University of Houston-Clear Lake will accept AP or CLEP credit to:

- Establish a student's eligibility for undergraduate admission
- Fulfill statutory and core (lower-level) academic requirements for a bachelor's degree

A list of exams acceptable at UHCL and their minimum acceptable AP and CLEP scores can be found on the Office of Admissions' website.

#### ***UPPER-LEVEL CREDIT***

University of Houston-Clear Lake may accept credit earned through CLEP for upper-level work; however, it cannot automatically be applied. Each academic college or department at UHCL must determine whether CLEP credit will be accepted for specific upper-level coursework and applied toward student degree requirements.

### ***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
- 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
- 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](http://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

# INTERNATIONAL ADMISSIONS AND PROGRAMS

Welcome to the International World of the University of Houston-Clear Lake. 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 and current students, 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 Programs, Admission Appeals Process, Transcripts and Records Information, Transferrable Credit, Records Retention and Release, University Policy Regarding Discretionary Authority, Freshman Admission Requirements, Uniform Admissions Requirements, Texas Success Initiative-TSI, Transfer Admission Requirements, Transient Students, Etc.

## INTERNATIONAL ADMISSIONS

### APPLICATION FEES

The current application fees are as follows:

International applicants	\$75.00
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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 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 Office of Student Business Services.

### APPLICATION DEADLINES

The Application Deadline dates for international applicants are as follows:

**Freshman Applicants:**

Semester	Apply By:
Fall	April 1
Spring	October 1

**Transfer Applicants:**

Entering from outside of the U.S.

Semester	Apply By:
Spring	October 1
Summer	March 1
Fall	April 1

**Transferring from another U.S. Institution**

Semester	Apply By:
Spring	November 1
Summer	March 1
Fall	June 1

**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**

Freshmen International Applicants who graduate from a high school that does not meet Uniform Admission Requirements (p. 36) must be considered through UHCL's Individual Review Process (p. 35). Applicants should use the following institution codes to send UHCL their test scores: **SAT** - 6916; **ACT** - 4171.

To be considered, applicants must pay the \$75 application fee, meet the regular admission requirements for freshmen students (p. 33) 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: International students submitting foreign documents must follow UHCL procedures for the submission of this documentation (see *International Transcript and Document Requirements* (p. 29)).

**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 and they are required to submit the following information in addition to their application and SAT or ACT scores:

1. Satisfy the College Readiness Benchmarks on the SAT or ACT assessment
  - SAT - 1500 out of 2400 (Verbal + Math + Writing)
  - ACT - 18 English, 22 Reading, 22 Mathematics, and 23 Science
2. Essay or Personal Statement indicating education and career goals.
3. 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 (p. 28). 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 (p. 36) 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 (p. 29)).

## TRANSFER APPLICANT INFORMATION

Transfer students must submit official documents from each 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

### 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.

## **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.

## **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 diploma 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 private 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 can 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 two-day 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**

### **(International Students)**

International students seeking undergraduate degrees at UHCL may obtain an International Student adviser'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. 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 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.

# 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](http://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](http://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
- Automatic Transfer Scholarships
- Fifth Year Accounting Scholarship
- Resident Undergraduate Student Assistance Grant
- Federal College Work Study Program (FWSP)
- Texas College Work Study Program (TWSP)
- Federal Perkins Loan
- \*Federal Direct Subsidized Stafford Loan
- Texas College Access Loan
- Texas B-On-Time 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 [www.studentloans.gov](http://www.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:

- 2016-2017 Free Application for Federal Student Aid (FAFSA) available online at [www.fafsa.gov](http://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.

## **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:

- 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](http://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](http://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 scholarships 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.

## 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

Students wishing to pursue a third bachelor's 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 e-mail 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](http://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](http://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 50% point in the semester to compute the withdrawal calculation. Students who feel they attended past the 50% point of the semester should contact the Office of Student Financial Aid to appeal the date of determination.

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](http://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 [www.studentloans.gov](http://www.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](http://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
- 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.collegeforalltexans.com](http://www.collegeforalltexans.com) or [www.uhcl.edu/finaid](http://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 Scholars 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](http://www.uhcl.edu/scholarships).

### NEW HAWK SCHOLARSHIP

#### Eligibility

- Top 15% of High School Class; or
- 1100 SAT; or
- 24 ACT; and
- Texas Resident; and
- Graduate High School in the 2016-2017 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 2016. Applications will be due by February 1, 2017. Interested students should monitor the [www.uhcl.edu/finaid](http://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.

### AUTOMATIC TRANSFER SCHOLARSHIP

#### Eligibility

- New, first-time degree-seeking undergraduate student
- Texas Resident or non-resident 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 the initial transfer GPA
- 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:

- 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.)

## 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](mailto: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)
- 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. The following are enrollment statuses for fall and spring undergraduate students who are 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

Students enrolled in half time OR less will not be eligible for Post 9/11 GI Bill monthly housing allowance.

### **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 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](http://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:

12 credits are full-time

9-11 credits are  $\frac{3}{4}$ -time

6-8 credits are  $\frac{1}{2}$ -time

4-5 credits are less than  $\frac{1}{2}$ -time ( $<\frac{1}{2}$ -time)

1-3 credits are  $\frac{1}{4}$ -time or less ( $<\frac{1}{4}$ -time)

## **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. But, all students must turn in a statewide Hazlewood application to their institution by the census date. However, all other supporting documentation can have extensions on them.

## **DISABLED VETERAN PARKING**

### **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 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 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.

## 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](http://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 \$458 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](http://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.

## **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.

## **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.

## **ORIENTATION FEE**

This onetime 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](http://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 registration 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 schools 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 school 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

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 (CSE) - 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	25/hr- 300/max
International Education Fee	2
International Student Insurance (annual)	2030
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 \$222)	37/hr
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	458	153	247	37	25	110	7	2	30	28	442	944
2	100	916	306	494	74	50	110	14	2	30	28	714	1718
3	150	1374	459	741	111	75	110	21	2	30	28	986	2492
4	200	1832	612	988	148	100	110	28	2	30	28	1258	3266
5	250	2290	765	1235	185	125	110	35	2	30	28	1530	4040
6	300	2748	918	1482	222	150	110	42	2	30	28	1802	4814
7	350	3206	1071	1729	222	175	110	49	2	30	28	2037	5551
8	400	3664	1224	1976	222	200	110	56	2	30	28	2272	6288
9	450	4122	1377	2223	222	225	110	63	2	30	28	2507	7025
10	500	4580	1530	2470	222	250	110	63	2	30	28	2735	7755
11	550	5038	1683	2717	222	275	110	63	2	30	28	2963	8485
12	600	5496	1836	2964	222	300	110	63	2	30	28	3191	9215
13	650	5954	1989	3211	222	300	110	63	2	30	28	3394	9920
14	700	6412	2142	3458	222	300	110	63	2	30	28	3597	10625
15	750	6870	2295	3705	222	300	110	63	2	30	28	3800	11330
16	800	7328	2448	3952	222	300	110	63	2	30	28	4003	12035
17	850	7786	2601	4199	222	300	110	63	2	30	28	4206	12740
18	900	8244	2754	4446	222	300	110	63	2	30	28	4409	13445
19	950	8702	2907	4693	222	300	110	63	2	30	28	4612	14150
20	1000	9160	3060	4940	222	300	110	63	2	30	28	4815	14855
21	1050	9618	3213	5187	222	300	110	63	2	30	28	5018	15560
22	1100	10076	3366	5434	222	300	110	63	2	30	28	5221	16265
23	1150	10534	3519	5681	222	300	110	63	2	30	28	5424	16970
24	1200	10992	3672	5928	222	300	110	63	2	30	28	5627	17675
25	1250	11450	3825	6175	222	300	110	63	2	30	28	5830	18380
26	1300	11908	3978	6422	222	300	110	63	2	30	28	6033	19085
27	1350	12366	4131	6669	222	300	110	63	2	30	28	6236	19790
28	1400	12824	4284	6916	222	300	110	63	2	30	28	6439	20495
29	1450	13282	4437	7163	222	300	110	63	2	30	28	6642	21200
30	1500	13740	4590	7410	222	300	110	63	2	30	28	6845	21905

*\*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

<b>CR HR</b>	Semester Credit Hour	<b>ST SVC</b>	Student Service	<b>EXT ACC</b>	Extended Access Support
<b>RES UG</b>	Texas Residents	<b>INFO RES</b>	Information Resource Fee	<b>INT EDU</b>	International Education Fee
<b>NR/F UG</b>	Non-residents	<b>ACDM RCRD</b>	Academic Record Fee	<b>ST CENT</b>	Student Center
<b>TUI DES UG</b>	Tuition Designated Residents	<b>TUI DES NR/FU G</b>	Tuition Designated Non-Residents	<b>REC WELL</b>	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 Academic Records. Once the rebate is verified by the Office of Academic Records, 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 Academic Records. 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 Academic Records 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 Academic Records 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 Higher One.

## **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 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 Higher One. UHCL has partnered with Higher One 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.

# 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](http://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

The 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 45 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 45 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 45 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 acceptability of transfer 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	Building	Room	Phone	Email
Transfer Advising	Student Services and Classroom Building	SSCB 1202	281-283-3068	transfer@uhcl.edu
College of Business	Bayou Building	B2111	281-283-3110	busadvoff@uhcl.edu
College of Education	Bayou Building	B1231	281-283-3600	education@uhcl.edu
College of Human Science and Humanities	Bayou Building	B1539	281-283-3333	hshadvising@uhcl.edu
College of Science and Engineering	Bayou Building	B3611	281-283-3711	sceadvising@uhcl.edu
Distance and Off-Campus Education	Bayou Building	B2508	281-283-3031	dlisted@uhcl.edu

**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 (Refer to Refund Policies). 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 [records@uhcl.edu](mailto:records@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](mailto: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 Human Sciences and Humanities	College of Business
281-283-3333	281-283-3110
hshadvising@uhcl.edu	busadvoff@uhcl.edu
College of Science and Engineering	College of Education
281-283-3711	281-283-3600
sceadvising@uhcl.edu	education@uhcl.edu

**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/records](http://www.uhcl.edu/records).

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 signature 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/records](http://www.uhcl.edu/records).

## 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 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)(I) - (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))
- 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. (§99.31(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 [records@uhcl.edu](mailto:records@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](http://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 3<sup>rd</sup> 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.

# STUDENT SERVICES

## OFFICE OF THE ASSOCIATE VICE PRESIDENT

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, Intercultural Student Services, 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](http://www.uhcl.edu) under the "Students" tab.

	Office	Phone
Associate Vice President	Bayou 2523	281-283-3025
Career Services	SSCB 3109	281-283-2590
Counseling 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
Intercultural Student Services	SSCB 1203	281-283-2575
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 Housing		281-286-5959
Student Life	SSCB 1204	281-283-2560
Student Publications	Bayou 1239	281-283-2570
Student Services at Pearland	Pearland Campus	281-212-1678
Student Success Center	SSCB 3102	281-283-2643
Writing Center	SSCB 2105	281-283-2910

## CAREER SERVICES

### 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 schools. 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

### COUNSELING SERVICES

The mission of Counseling Services is to guide and to support the members of the university community in the achievement of their educational, vocational, and psychological goals. Counseling Services offers free and confidential individual, couples, and group therapy for a variety of concerns, including anxiety, depression, eating concerns, relationship issues, grief, sexuality, identity development, self-esteem, motivation, procrastination, career indecision, and general personal growth. Counseling Services also offers career and personal workshops, biofeedback and other self-help resources, and psychiatry services.

UHCL Counseling Services SSCB 3.103, 281-283-2580 or [www.uhcl.edu/counselingservices](http://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](http://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.

Health Services encourages all students, currently enrolled in 6 or more hours to obtain the university's student health insurance. 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 if appropriate documentation has been noted. SSCB 1301, 281-283-2626.

## INTERCULTURAL STUDENT SERVICES

ISS provides advocacy, guidance, and support to enhance student success. ISS 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, ISS 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 aid from the ISS 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 - ISS Student Ambassadors serve as peer leaders and advocate for all students.
- Cultural Resource Center - ISS maintains a collection of periodicals, books, training manuals, newsletters, audiotapes, and videos on a variety of cultural topics.
- Cultural Programs/Festivals - ISS 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.
- External Scholarship Resources - Extensive information on external scholarships is available.
- Transition and Retention Programs - ISS 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.
- I-Start-Developed to assist new incoming and underrepresented international students (who are the only one or a small group of students from their country) with academic and social support that will lead to a successful transition to UHCL and U.S.

## WOMEN'S AND LGBT SERVICES

The Women's Services program is offered to women 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

Intercultural Student Services offers two diversity training workshops:

**Cultural Competency for Leaders (CCL)** and **Social Justice Training**. 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.

## 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 Counseling Services to provide math success workshops. Contact the Math Center at 281-283-3883 or [mathcenter@uhcl.edu](mailto: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. International 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 to 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 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](mailto:info@universityforestUHCL.com), or visit [www.universityforestUHCL.com](http://www.universityforestUHCL.com). You 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 to various university events and posting approval. The Student Life Office is comprised of the following components.

## STUDENT ORGANIZATIONS AND STUDENT GOVERNMENT ASSOCIATION

There are approximately 80 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 Cultural Arts Series, 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.

UHCL Honor Societies are:

Alpha Kappa Delta	Sociology
Alpha Phi Sigma	Criminology
Beta Alpha Psi	Accounting
Beta Beta Beta	Biology
Beta Gamma Sigma	All Business Disciplines
Gamma Theta Upsilon	Geography
I/O Psi	Industrial/Organizational Psychology
Kappa Delta Pi	Education
Lambda Alpha	Anthropology
Omicron Delta Kappa	Leadership

Phi Alpha Delta	Pre-Law
Phi Alpha Theta	History
Phi Kappa Phi	All Disciplines
Pi Alpha Alpha	Public Affairs
Psi Chi	Psychology
Sigma Iota Epsilon	Management
Sigma Tau Delta	Literature
Upsilon Phi Delta	Healthcare

## STUDENT PUBLICATIONS

Students enrolled in the COMM 4565 Media Production class, publish the student newspaper out of the Office of Student Publications. The student newspaper, The Signal, is published throughout the fall and spring semesters 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 story ideas and comments. 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](http://www.uhclthesignal.com); it is also available as an App. Newspaper stands are distributed around campus to house special print editions, which include the New Student Orientation issue, Student Conference for Creative Arts and Research issue, Election Coverage issue, etc.

## STUDENT SUCCESS CENTER

The Student Success Center is a comprehensive academic resource for the UHCL student community, which includes peer tutoring, supplemental instruction, academic coaching and peer mentoring. 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](http://www.uhcl.edu/writingcenter), email [writingcenter@uhcl.edu](mailto:writingcenter@uhcl.edu), or drop by SSCB 2105.

# 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

- 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

The University of Houston-Clear Lake (UHCL) is authorized by the Texas Higher Education Coordinating Board to confer six degrees in 48 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.) (p. 121)
- Environmental Management (B.S.) (p. 127)
- Finance (B.S.) (p. 123)
- General Business (B.S.) (p. 123)

- Healthcare Administration (B.S.) (p. 124)
- Healthcare Services (B.A.S.) (p. 124)
- Legal Studies (B.S.) (p. 128)
- Management (B.S.) (p. 124)
- Management Information Systems (B.S.) (p. 126)
- Marketing (B.S.) (p. 126)
- Professional Accounting (B.S.) (p. 121)

## **College of Education**

### **Interdisciplinary Studies (B.S.)**

- Core Subjects EC-6 with Bilingual Supplemental Certification (p. 144)
- Core Subjects EC-6 Certification (Early Childhood Concentration)
- Core Subjects EC-6 Certification (Reading Concentration)
- 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 (p. 152)
- 4-8 Social Studies Certification (p. 154)

### **Early Childhood Education (B.A.S.) (p. 175)**

- Early Childhood Education – Educator of Young Children Track (p. 175)
- Young Children with Disabilities Track
- Early Childhood Program Leadership Track

## **College of Human Sciences and Humanities**

- Anthropology (B.S.) (p. 242)
- Art and Design (B.F.A.) (p. 215)
- Behavioral Sciences (B.S.) (p. 245)
- Communication (B.A.) (p. 220)
- Criminology (B.S.) (p. 248)
- Fitness and Human Performance (B.S.) (p. 203)
- Geography (B.S.) (p. 249)
- History (B.A.) (p. 222)
- Humanities (B.A.) (p. 228)
- Literature (B.A.) (p. 232)
- Nursing (B.S.N.) (p. 209)
- Psychology (B.S.) (p. 238)
- Public Service Leadership (B.S.) (p. 252)
- Social Work (B.S.W.) (p. 91)
- Sociology (B.S.) (p. 254)
- Women's Studies (B.A.) (p. 240)

## College of Science and Engineering

- Biological Sciences (B.A., B.S.)
- Chemistry (B.A., B.S.)
- Computer Science (B.S.) (p. 268)
- Computer Information Systems (B.S.) (p. 271)
- Computer Systems Engineering (B.S.) (p. 283)
- Environmental Science (B.S.)
- Information Technology (B.A.S.) (p. 270)
- Mathematical Sciences (B.A., B.S.) (p. 273)
- Physics (B.S.)

## ENROLLMENT AND GRADING POLICIES

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

### ENROLLMENT POLICIES

#### *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 of courses 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:

- Full-time: 12 or more hours
- $\frac{3}{4}$  time: 9 to 11 hours
- $\frac{1}{2}$  time: 6 to 8 hours
- Less than  $\frac{1}{2}$  time: 5 to 1 hours

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 hour requirements 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 academic 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/records](http://www.uhcl.edu/records) 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.

Freshman and sophomore students (students with less than 60 completed cumulative hours) must visit with the University Academic Advising Center prior to beginning the withdrawal process. The University Academic Advising Center will issue the student a Withdrawal Form. Students receiving financial aid and veterans' benefits will also be required to meet with those offices. At the conclusion of visiting with each required office, the Withdrawal Form will be sent to the Office of the Registrar by the last office visited by the student. The submission date of the withdrawal form or the last date of attending an academically related activity will be used as the last date of attendance. The applicable refund schedule will apply.

All other students wishing to drop any or all of their classes, 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 [records@uhcl.edu](mailto:records@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 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 financial aid office 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.
- Medical withdrawals 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/records](http://www.uhcl.edu/records)) or to courses for which the student 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 requirements
- Credit hours excluded from the academic record under the Academic Fresh Start program

### ***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.

## ***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.

## ***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) 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.

## **GRADING POLICIES**

### ***DESCRIPTIONS OF LETTER GRADES***

- Performance in the range of "A" represents exceptional scholarship and intellectual initiative in accomplishing course goals and objectives.
- Performance in the range of "B" represents solid or significant achievement in accomplishing course goals and objectives.
- Performance in the range of "C" represents average or satisfactory achievement in accomplishing course goals and objectives.
- Performance in the range of "D" represents the minimally acceptable performance in accomplishing course goals and objectives.
- An "F" performance represents unsatisfactory or below minimally acceptable achievement in accomplishing 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***

<b>Grade Points Per Semester Hour</b>	<b>Grade</b>
4.000	A
3.667	A-

3.333	B+
3.000	B
2.667	B-
2.333	C+
2.000	C
1.667	C-
1.333	D+
1.000	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
S*	Satisfactory
U*	Unsatisfactory
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.

## ***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 advisory 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 Academic Records 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.

## ***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. However, once a student has satisfied a core course, repeated attempts of the same course does not affect core curriculum satisfaction.

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](http://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.

### ***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).

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 REINSTATEMENT 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 Enrollment Management. 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 Senior Vice President of Academic Affairs and Provost or Designee 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 atmosphere 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 Honesty 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 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.

## 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:
  - Six hours of U.S. History (three hours may be Texas History).
  - 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.
7. 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

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:
  - Six hours of U.S. History (three hours may be Texas History).
  - 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.

## 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 Title	TCCNS
<b>Communications (6 hours)</b>		
WRIT 1301	English Composition I	ENGL 1301
WRIT 1302	English Composition II	ENGL 1302
<b>Mathematics (3 hours)</b>		
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

<b>Life and Physical Sciences (6 hours)</b>		
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
PHYS 1302	College Physics II	PHYS 1302
PHYS 2325	University Physics I	PHYS 2325
PHYS 2326	University Physics II	PHYS 2326
<b>Language Philosophy and Culture (3 hours)</b>		
HUMN 1301	Humanities	HUMA 1301
LITR 2341	Literature and Experience	ENGL 2341
PHIL 1301	Into to Philosophy	PHIL 1301
WMST 1301	Gender Matters	
<b>Creative Arts (3 Hours)</b>		
ARTS 1303	World Art Survey I	ARTS 1303

ARTS 1304	World Art Survey II	ARTS 1304
ARTS 2379	Arts and the Child	
<b>U.S. History (6 hours)</b>		
HIST 1301	US History I	HIST 1301
HIST 1302	US History II	HIST 1302
<b>Government/ Political Science (6 hours)</b>		
POLS 2305	Federal Government	GOVT 2305
POLS 2306	Texas Government	GOVT 2306
<b>Social Behavioral Science (3 hours)</b>		
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
<b>Component Area Option (6 hours)</b>		
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
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.)		

### ***FIRST-YEAR SEMINAR REQUIREMENT***

All students who enter the University as first-year students are required to register for First-Year Seminar (Learning Frameworks) during the first semester of enrollment. The First-Year Seminar is a co-requisite course with HIST 1301, POLS 2305 and POLS 2306. First-year students who have completed the History and Political Science courses through dual credit, AP credit or CLEP credit are required to register in a specially designed section of First-Year Seminar course that is not linked to the History or Political Science courses.

### ***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.

## **REQUIREMENTS FOR A MINOR (EFFECTIVE FALL 2015)**

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.

Inclusion of minors in programs of study may not result in graduation requirements that exceed the approved length of the degree plan (typically 120 hours). Minors must be completed as part of a planned degree program prior to graduation.

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 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 general and program requirements listed in the college section of 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.

## 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 effect 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.

## **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.

# DISTANCE AND OFF-CAMPUS EDUCATION

## GENERAL INFORMATION

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.

Distance 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.

## DE 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.

## SCHEDULE OF DE CLASSES

Each semester, students have the ability to review course offerings via the online search engine on the UHCL website. See class schedule available online at [www.uhcl.edu](http://www.uhcl.edu). To search for distance education courses, select your location of choice and/or instruction mode of delivery, then search. The distance education class schedule can also be found at the DE website at [www.uhcl.edu/disted](http://www.uhcl.edu/disted).

## 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](http://www.uhcl.edu/finaid) for more information.

## STUDENT SERVICES

The DE 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 call 281-283-3031.

UHCL also provides student services to off-campus and online students. For assistance in accessing these services, call the DE office 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**

Bachelor of Science in Anthropology

Bachelor of Science in Criminology

Bachelor of Science in Finance

Bachelor of Science in General Business

Bachelor of Science in Psychology

Bachelor of Science in Public Service Leadership

## **OFF-CAMPUS PROGRAMS BY LOCATIONS**

### **UHCL Pearland Campus**

1200 Pearland Parkway

Pearland, TX 77581

Programs offered:

Bachelor of Science in Accounting

Bachelor of Science in Behavioral Sciences-General

Bachelor of Science in Criminology

Bachelor of Applied Science in Information Technology

Bachelor of Science in Interdisciplinary Studies with EC-6 Generalist Certification (Early Childhood Concentration)

Bachelor of Science in Interdisciplinary Studies with EC-6 Generalist Certification with ESL Supplemental Certification

Bachelor of Science in Interdisciplinary Studies with EC-6 Generalist Certification and EC-12 Special Education (All Level) Certification

Bachelor of Science in Management

Bachelor of Science in Nursing

Bachelor of Science in Psychology

Certificate programs in ESL Certification and Special Education Certification

### **Texas Medical Center**

2151 West Holcombe

Houston, TX 77030

Programs offered:

Bachelor of Applied Science in Healthcare Services

Bachelor of Science in Healthcare Administration

# COLLEGE OF BUSINESS

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. 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.

	Office	Phone
Office of Academic Advising	Bayou 2111	281-283-3110
Office of the Dean	Bayou 2239	281-283-3100
Website	<a href="http://www.uhcl.edu/bus">www.uhcl.edu/bus</a>	
College of Business Advising email address	<a href="mailto:busadvoff@uhcl.edu">busadvoff@uhcl.edu</a>	

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.

H.B. 1172 requires that students entering an institution in fall 2008 or later may not be required to complete more than the minimum number of semester credit hours required for the baccalaureate degree by the Southern Association of Colleges and Schools (120 semester credit hours) unless the institution determines that there is a compelling academic reason for requiring completion of additional semester credit hours for the degree. All UHCL baccalaureate degrees are in compliance with H.B. 1172 effective fall 2008.

H.B. 1172 does not apply to students enrolling prior to fall 2008 or to degree plans in existence prior to fall 2008. Students requesting new degree plans should be aware that they may risk being charged higher tuition if the new degree plan puts them in violation of exceeding 30/45 semester credit hours required for completion of the degree rule (H.B. 1172). Furthermore, changing degree plans may disqualify a student from being eligible to receive a tuition rebate upon graduation for completion of the degree with no more than three attempted hours in excess of the minimum number of semester credit hours required to complete the degree under the catalog under which the student graduated.

## UNDERGRADUATE REQUIREMENTS FOR ALL BUSINESS DEGREES

### CORE CURRICULUM REQUIREMENTS

A minimum of 60 upper-level 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.

#### Basic Requirements

To assist students in obtaining sufficient background to prepare for upper-level business courses, the following curriculum is required:

Accounting Principles <sup>1</sup>	6 hours
Business Law	3 hours



Economic Principles (Microeconomics Principles recommended) <sup>2</sup>	6 hours
English Composition (must be grades of C- or higher)	6 hours
Creative Arts	3 hours
Language, Philosophy and Culture	3 hours
Government/Political Science (3 hours U.S. and 3 hours Texas)	6 hours
History (6 hours U.S. or 3 hours may be Texas)	6 hours
Mathematics (Finite Math and Business Calculus) <sup>3</sup> (Grade in Finite Math must be C- or higher)	6 hours
Life and Physical Sciences <sup>4</sup>	6 hours
Social/ Behavioral Science (Macroeconomics Principles recommended) <sup>2</sup>	3 hours
Speech	3 hours
Computer Competency (Business Computer Applications) <sup>3</sup>	3 hours
Learning Frameworks	1 hour
Two 1-hour Life and Physical Sciences Labs	2 hours
<b>Total</b>	<b>60 hours</b>

<sup>1</sup>**Environmental Management** majors may replace Accounting Principles I and/or II with Biology, Geology, Physics, Ecology, Environmental Science or Chemistry beyond the six hours already required. **Legal Studies** majors may replace Accounting Principles II with a foreign language or English not used to satisfy any other core curriculum requirement.

<sup>2</sup>Both Macroeconomics Principles (3 hours) and Microeconomic Principles (3 hours) are required for all majors in the College of Business, regardless of courses taken to satisfy Social/Behavioral Science. Either course also satisfies the 3-hour Social/Behavioral Science requirement.

<sup>3</sup>**Legal Studies** majors **ONLY** may replace MATH 1324 Finite Math with 3 hours of foreign language or English beyond the core curriculum requirements. Students in **Environmental Management** may substitute MATH 1324 Finite Math with pre-calculus, calculus, or a math course approved by the faculty coordinator. **Legal Studies** and **Environmental Management** majors may substitute Business Calculus with any 3-hour elective course. Computer Competency is not required of **Legal Studies** and **Environmental Management** majors.

<sup>4</sup>**Environmental Management** majors are required to take CHEM 1311 - Chemistry I plus one of the following: BIOL 1306, CHEM 1312, ENSC 1301, GEOL 1303 or PHYS 1302. Any other courses require faculty approval.

To minimize taking additional courses, please refer to your major plan for recommended courses in each area.

## UPPER-LEVEL REQUIREMENTS FOR BUSINESS PROGRAMS (MAJORS)

The programs in Business Administration prepare students to assume administrative, managerial and professional positions in their respective fields. Undergraduate degrees are offered in accounting,

finance, management information systems, healthcare administration, management, marketing and general business.

Upper-Level Core Requirements comprise of 27 hours; Major Requirements vary from 18 to 30 hours, depending upon the specific business program. BUS and General Electives are added to each degree program as needed to provide a total of at least 60 upper-level hours, as well as 120 total hours required for graduation. No more than 6 hours of grades in the range of "D+", "D" or "D-" are permitted in upper-level Business Core Requirements. 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.

## Core Requirements for Business Majors

### Courses

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:

DSOI 3321	Statistics I
DSOI 3331	Quantitative Methods for Management
ECON 3311	Money and Banking
FINC 3331	Business Finance
ISAM 3303	Information Systems for Management
MGMT 3301	Management Theory and Practice
MGMT 4312	Strategic Management (Capstone)
MKTG 3301	Principles of Marketing
WRIT 3312	Written Communications in Business

## DEGREE REQUIREMENTS FOR BUSINESS MAJORS

### ACCOUNTING B.S.

#### Major Requirements

Undergraduate students majoring in accounting have two options: the bachelor of science degree in Accounting and 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.

**Major requirements for the bachelor of science degree in Accounting consist of these courses:**

ACCT 3333	Cost Accounting
ACCT 3341	Intermediate Accounting I
ACCT 3342	Intermediate Accounting II
ACCT 4331	Federal Taxation of Individuals
ACCT 4332	Financial Information Systems
ACCT 4341	Auditing I
ACCT 4352	Advanced Financial Accounting

#### Elective Requirements (12 hours)

- 3 hour BUS Elective Upper-Level, 33XX or 43XX
- 3 hour General Elective Upper-Level, 33XX or 43XX
- 6 hours of Accounting upper-level Electives, 33XX or 43XX

ACCT 3331 and ACCT 3332 cannot be used as electives of any kind.

## PROFESSIONAL ACCOUNTING INTEGRATED B.S. AND M.S.

#### Major Requirements

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 and meet all graduate accounting entrance requirements by the first semester of their senior year. 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. 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. Major requirements consist of the following courses:

### **Undergraduate Courses:**

ACCT 3333	Cost Accounting
ACCT 3341	Intermediate Accounting I
ACCT 3342	Intermediate Accounting II
ACCT 4331	Federal Taxation of Individuals
ACCT 4332	Financial Information Systems
ACCT 4341	Auditing I
ACCT 4346	Business Ethics for Accountants
	3 hour of Undergraduate ACCT Elective Upper-Level, 33XX or 43XX
	3 hour Undergraduate BUS Elective Upper-Level, 33XX or 43XX
	3 hour Undergraduate General Elective Upper-Level, 33XX or 43XX

### **Graduate Courses:**

ACCT 5234	Corporate and Pass Through Entity Taxation
ACCT 5431	Advanced Accounting
ACCT 5432	Acct for Government and Not-For-Profit Organizations
ACCT 6732	Seminar in Fraud Examination and Audit Risk
LEGL 5131	Legal Concepts for the Business Professional

### **Graduate Electives:**

- 9 hours of ACCT Electives Graduate Level, 5XXX or 6XXX
- 6 hours of BUS Electives Graduate Level, 5XXX or 6XXX
- 3 hour FINC Elective Graduate Level, 5XXX or 6XXX

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**

### **Concentration Requirements**

Students in the integrated Professional Accounting degree program may complete a Concentration in Management Information Systems by completing the following combination of undergraduate and graduate course work. Major requirements consist of these courses:

### **Undergraduate Courses:**

ACCT 3341	Intermediate Accounting I
ACCT 3342	Intermediate Accounting II
ACCT 4331	Federal Taxation of Individuals
ACCT 4332	Financial Information Systems
ACCT 4341	Auditing I
ACCT 4346	Business Ethics for Accountants
ISAM 3304	Introduction to Business Applications Programming

3 hour Undergraduate General Elective Upper-Level, 33XX or 43XX

### Graduate Courses:

ACCT 5234	Corporate and Pass Through Entity Taxation
ACCT 5431	Advanced Accounting
ACCT 5432	Acct for Government and Not-For-Profit Organizations
ACCT 6732	Seminar in Fraud Examination and Audit Risk
LEGL 5131	Legal Concepts for the Business Professional

### 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 of the following four courses (9 hours):

ACCT 5333	Fundamentals of Database Design and Development
ACCT 5334	Advanced Database Applications Development
ACCT 5335	Information Systems Audit and Security
ACCT 5336	Systems Analysis and Design

## FINANCE B.S.

### Major Requirements

The degree in Finance leads to the bachelor of science.

#### Degree requirements consist of these courses:

ACCT 3341	Intermediate Accounting I
	Or
ACCT 3332	Financial Reporting and Analysis
ACCT 3342	Intermediate Accounting II
	Or
FINC 4341	Structure of Financial Statements
FINC 3333	Intermediate Financial Management
FINC 3353	Investments
FINC 4331	Contemporary Financial Institutions
FINC 4351	International Financial Operations

#### FINC Electives (6 hours)

to be selected from the following courses:

ACCT 4352	Advanced Financial Accounting
FINC 3301	Personal Money Management
FINC 3351	Real Estate Investment Analysis
FINC 4353	Financial Derivatives
FINC 4361	Treasury Management
FINC 4391	Selected Topics in Finance

### General Elective Requirements

For the General Elective requirement, students may take any three 33XX or 43XX level courses offered by the College of Business, Human Sciences & Humanities, Science & Computer Engineering or Education.

## GENERAL BUSINESS B.S.

### Major Requirements

The degree in General Business leads to the bachelor of science. Requirements consist of 18 hours in business administration 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 or marketing, and fifteen hours of general electives.

General Electives: any upper-level (3300 or 4300) elective courses offered by the College of Business, Human Sciences & Humanities, Science & Computer Engineering or Education.

## HEALTHCARE ADMINISTRATION B.S.

### Major Requirements

The degree in Healthcare Administration leads to the bachelor of science. This degree provides students with the skills needed to obtain entry-level management positions in the healthcare industry and prepares students for graduate work in Healthcare Administration.

#### Degree requirements consist of these courses:

HADM 3311	Foundations of Healthcare Administration Leadership
HADM 3351	Physician Group Practice Management
HADM 4312	Healthcare Planning and Marketing
HADM 4316	Medical Reimbursement
HADM 4332	Legal Dimensions of Healthcare Administration
HADM 4341	HR in Healthcare Administration
HADM 4351	Financial Dimensions of Healthcare Administration II
	3 hour HADM Elective Upper-Level, 33XX or 43XX

#### General Elective Requirements (9 hours)

Any 3 upper-level (33XX or 43XX) elective courses offered by the College of Business, Human Sciences & Humanities, Science & Computer Engineering or Education.

## HEALTHCARE SERVICES B.A.S.

### Major Requirements

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 vocational/technical credit hours that they earn through their associates program.

The HADM courses will be offered at UHCL's Healthcare Administration Department, which is physically based in the Texas Medical Center. This curriculum prepares students in allied health professions to advance into an administrative position within their healthcare facilities.

#### Major Requirements Consist of these Courses (27 hours):

HADM 3311	Foundations of Healthcare Administration Leadership
HADM 3322	Financial Dimensions of Healthcare Administration I
HADM 3333	Healthcare Economics
HADM 3351	Physician Group Practice Management
	Or
HADM 4326	Hospital Operations
HADM 4312	Healthcare Planning and Marketing
HADM 4316	Medical Reimbursement
HADM 4332	Legal Dimensions of Healthcare Administration
HADM 4341	HR in Healthcare Administration
HADM 4351	Financial Dimensions of Healthcare Administration II

#### Prescribed Elective Courses (9 hours):

MGMT 4354	Organizational Behavior Theory and Application
MKTG 3301	Principles of Marketing
PSYC 4370	Behavioral Statistics

#### General Elective Requirements (9 hours):

Any 3 upper-level (33XX or 43XX) elective courses offered by the College of Business, Human Sciences & Humanities, Science & Computer Engineering or Education.

## MANAGEMENT B.S.

### Major Requirements

The degree in Management leads to the bachelor of science. Management majors are required to take MGMT 3331 and MGMT 4354 plus five management electives. Management majors may take any

15 hours of management electives at the 33XX or 43XX level, or select one of the concentrations in the next section. Twelve-hour concentrations must be supplemented with an additional 3-hour management elective.

### **General Elective Requirements**

In addition, the degree program requires any 4 upper-level (33XX or 43XX) elective courses offered by the College of Business, Human Sciences & Humanities, Science & Computer Engineering or Education.

## **Management Concentrations:**

### **Entrepreneurship and Small Business (Pearland Campus):**

Entrepreneurship Concentration requirements are:

MGMT 4336	Principles of Entrepreneurship
MGMT 4337	Applied Small and Family Business Management

#### **Two required courses:**

MGMT 4336	Principles of Entrepreneurship
MGMT 4337	Applied Small and Family Business Management

#### **In addition, the student must complete three courses from the following course list:**

MGMT 3313	Organizational Communication
MGMT 3341	Human Resource Planning, Staffing and Selection
MGMT 4326	Effective Negotiations
MGMT 4333	Collective Bargaining in the Public Sector
MGMT 4371	Seminar on the Social Responsibility of Business

### **Leadership:**

Concentration requires 6 hours as listed below, plus 6 hours from the elective list.

MGMT 4327	Leadership
MGMT 4334	Leading Teams

#### **Plus 6 hours from the elective list below:**

LEGL 4353	Dispute Resolution
MGMT 3313	Organizational Communication
MGMT 4326	Effective Negotiations
MGMT 4328	Cross Cultural and International Leadership
MGMT 4332	Organizational Design and Learning
MGMT 4341	Leadership in a Global Business Environment
MGMT 4356	Employee Training and Organizational Development

Plus 3 hours of any MGMT 33XX or 43XX level course not already taken.

### **Human Resource:**

Concentration requires 9 hours as listed below, plus 3 hours from the elective list.

MGMT 3331	Human Resource Management
MGMT 3351	Wage and Salary Administration
MGMT 43XX	Legal Concepts for Human Resource Professionals

#### **Plus 3 hours from the elective list below:**

LEGL 4353	Dispute Resolution
MGMT 3341	Human Resource Planning, Staffing and Selection
MGMT 4316	Human Resource Management Information Systems
MGMT 4333	Collective Bargaining in the Public Sector
MGMT 4351	Industrial Labor Relations
MGMT 4356	Employee Training and Organizational Development

Plus 3 hours of any MGMT 33XX or 43XX level course not already taken.

**Environmental Management:**

Concentration requires 6 hours as listed below:

ENVR 3311	Foundations of Environmental Management
ENVR 4315	Introduction to Environmental Law

Plus an additional 6 hours from any 43XX level ENVR courses.

Plus 3 hours of any MGMT 33XX or 43XX level course not already taken.

**MANAGEMENT INFORMATION SYSTEMS B.S.****Major Requirements**

The Bachelor of Science in Management Information Systems curriculum 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 well as information systems courses (in areas such as web applications 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 following courses comprise the degree coursework:**

ISAM 3304	Introduction to Business Applications Programming
ISAM 3314	Applications Development with Java
ISAM 3331	Introduction to Business Database Application Development
ISAM 3333	Applications Development with C#
ISAM 4331	Introduction to Business Internet Applications Development
ISAM 4365	Analysis and Design of Information Systems
ISAM 4366	Introduction to Computer Networks Management
ISAM 4332	Advanced Business Internet Applications Development
ISAM 4362	Advanced Business Database Application Development
	3 hour ISAM Elective Upper-Level, 33XX or 43XX
	3 hour BUS Elective Upper-Level, 33XX or 43XX

**MARKETING B.S.****Major Requirements**

The degree in Marketing leads to the bachelor of science.

**Major requirements consist of these courses:**

MKTG 3313	Marketing Channels and Distribution
MKTG 3343	Consumer Behavior
MKTG 3351	Marketing Research
	9 hours of MKTG Electives Upper-Level, 33XX or 43XX

In addition to the MKTG course requirements, the program requires 5 general electives. General Electives: any 33XX or 43XX level course offered by the College of Business, Human Sciences & Humanities, Science & Computer Engineering or Education.

**UPPER-LEVEL REQUIREMENTS FOR ENVIRONMENTAL MANAGEMENT AND LEGAL STUDIES****General Degree Requirements for Environmental Management and Legal Studies**

A minimum of 60 upper-level hours and a total of 120 hours are required for the baccalaureate degree.

Environmental Management or Legal Studies majors may take no more than 25 percent of their credit hours from the business fields of accounting, business, finance, healthcare administration, management

information systems, management and marketing. A minimum cumulative GPA of 2.0 or higher is required to graduate.

## DEGREE REQUIREMENTS FOR ENVIRONMENTAL MANAGEMENT AND LEGAL STUDIES

### 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.

#### Major Requirements

##### Degree requirements consist of these courses:

DSCI 3321	Statistics I
	Or
STAT 3308	Computational Statistics
ENVR 3311	Foundations of Environmental Management
ENVR 4313	Techniques of Environmental Assessment
ENVR 4315	Introduction to Environmental Law
ENVR 4332	The Process of Environmental Permitting
ENVR 4333	Introduction to Pollution Control Technology
ENVR 4336	Administrative Practice and Ethical Issues
MGMT 3301	Management Theory and Practice
WRIT 3315	Advanced Technical Writing

##### Two of the following courses (6 hours):

ENVR 4311	Principles of Air Quality Management
ENVR 4312	Water Management Principles
ENVR 4317	Solid Waste Management Practices
ENVR 4391	Selected Topics in Environmental Management

Special Topics Courses (ENVR 4391) must be approved by faculty coordinator.

##### Two of the following courses (6 hours):

GEOG 4301	Urban Geography
GEOG 4312	Human Geography
LEGL 3351	Legal Research
LEGL 4353	Dispute Resolution
MGMT 3313	Organizational Communication
MGMT 3331	Human Resource Management
MGMT 4326	Effective Negotiations
MGMT 4327	Leadership
MGMT 4353	International Business Management
MGMT 4354	Organizational Behavior Theory and Application
MGMT 4357	Government Budget Planning and Analysis

##### Two of the following courses (6 hours):

BIOL 3311	Marine Biology
BIOL 3333	Environmental Biology
BIOL 3335	Epidemiology
BIOL 3373	Human Anatomy
BIOL 4311	Ecology
BIOL 4313	Biology of Fishes
CHEM 3333	Environmental Chemistry
CHEM 4355	Environmental Sampling and Monitoring
CHEM 4356	Soil & Groundwater Remediation
GEOG 4321	Fundamentals of Geographic Information Systems
GEOG 4322	Problems in Geographic Information Systems
GEOL 3307	Geographical Information Systems
GEOL 3333	Environmental Geology
GEOL 4335	Applied GIS
GEOL 4323	Soils in the Environment



GEOL 4327	Natural Disasters
GEOL 4356	Soil and Groundwater Remediation
INDH 3311	Industrial Health and Hygiene
INDH 3332	Principles of Professional Safety
INDH 3333	Environmental Safety and Health

*Any other courses require faculty approval.*

### **Electives (15 hours):**

- 3 hour ENVR Elective Upper-Level, 33XX or 43XX
- 3 hour General Elective Upper-Level, 33XX or 43XX
- 6 hours of Non-Business Electives Upper-Level, 33XX or 43XX

For the ENVR Elective (3 hours), students may take any 33XX or 43XX level ENVR course not already taken.

The General Electives (6 hours) may be any 33XX or 43XX level courses offered by the College of Business, Human Sciences & Humanities, Science & Computer Engineering or Education.

The Non-Business Electives (6 hours) are the same as the General Electives EXCEPT that courses in ACCT, DSCI, FINC, ISAM, MGMT and MKTG cannot fulfill the non-business elective requirement.

## **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: 1) 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.

## **Major Requirements**

### **Degree requirements consist of these courses:**

LEGL 3307	Legal Writing and Appellate Process
LEGL 3313	Introduction to Law and the American Legal System
LEGL 3342	American System of Trial By Jury
LEGL 3351	Legal Research
LEGL 3353	Introduction to the Texas Rules of Civil Procedure
LEGL 4352	Family Law and Procedure
LEGL 4353	Dispute Resolution
LEGL 4354	Property Transactions
LEGL 4355	Criminal Law and Procedure
LEGL 4356	Torts
LEGL 4359	Wills, Probate and Estate Administration
LEGL 43XX	Professional Development for Legal Studies Students

### **Required Electives (24 hours):**

#### **One course to be selected from:**

ENVR 4315 (Introduction to Environmental Law), MGMT 4326 (Effective Negotiations), or any 33XX or 43XX level ACCT, FINC, ISAM, MGMT or MKTG rubric.

#### **One course to be selected from:**

Any 33XX or 43XX level ARTS, HIST, HUMN, SOCI or POLS rubric (3 hours).

#### **Two of the following courses:**

WRIT 3307	Advanced Writing
WRIT 3312	Written Communications in Business
WRIT 3315	Advanced Technical Writing

## 12 hours of general electives

Any 33XX or 43XX level courses offered by the College of Business, Human Sciences & Humanities, Science & Computer Engineering or Education.

# MINORS IN THE COLLEGE OF BUSINESS

## ECONOMICS MINOR

The university policy on minors appears in the “General Information” section of the undergraduate catalog. Students must include the minor in the degree plan no later than 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 students and must not extend beyond the total number of required hours for program completion (120). For each minor, students must complete at least 15 hours with at least 9 of those hours drawn from 33XX and/or 43XX level course offerings. All courses for minor credit must be completed with a grade of “C” or above

### Minor in Economics (15 hours)

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)

ECON2301 – Principles of Macroeconomics (3 hours)

ECON2302 – Principles of Microeconomics (3 hours)

#### Macroeconomics-based Electives (ECON2301 required – must take at least one course)

ECON3311 – Money and Banking (3 hours)

ECON3321 – Development Economics (3 hours)

ECON3331 – Population Economics (3 hours)

#### Microeconomics-based Electives (ECON2302 required – must take at least one course)

HADM3333 – Healthcare Economics (3 hours)

ECON3361 – Industrial Organization (3 hours)

ECON3381 – Environmental and Energy Economics (3 hours)

ECON3391 – Sports Economics (3 hours)

ECON3371 – Public Finance (3 hours)

## Marketing Minor

The University policy on minors appears in the “General Information” section of the undergraduate catalog. 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 33XX and/or 43XX level course offerings. All courses for minor credit must be completed with a grade of “C” or above.

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. Students desiring a minor in Marketing will be required to complete MKTG 3301 and MKTG 3343, plus 9 hours of marketing electives.

**Required Courses in Minor (6 hours)**

MKTG 3301 Principles of Marketing

MKTG 3343 Consumer Behavior

**Marketing Electives (9 hours required)**

MKTG 3313 Marketing Channels and Distribution

MKTG 3331 Integrated Marketing Communications

MKTG 3344 Internet Marketing

MKTG 3346 Healthcare Marketing

MKTG 3314 Logistics Strategy

MKTG 3332 Professional Selling

MKTG 3351 Marketing Research

MKTG 3347 Customer Relationship Management

MKTG 3348 Retail Management

MKTG 4189 Independent Studies in Marketing

MKTG 4311 Sales Management

MKTG 4332 Services Marketing

MKTG 4333 Marketing for Entrepreneurs

MKTG 4334 Marketing Strategy

MKTG 4335 Brands and Brand Management

MKTG 4351 International Marketing

MKTG 4352 Seminar in International Marketing

MKTG 4379 Internship in Marketing

MKTG 4389 Independent Studies in Marketing

MKTG 4391 Selected Topics in Marketing (identified by specific title each time course is offered.)

# 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).

	Office	Phone
College of Education (COE)	Bayou 1231	281-283-3600
Center for Professional Development of Teachers (CPDT)	Bayou 1231	281-283-3612
Center for Educational Programs (CEP)	Arbor 1300	281-283-3530
Office of Academic Advising	Bayou 1231	281-283-3615
Office of Educator Certification	Bayou 1231	281-283-3618
Office of State Assessments	Bayou 1231	281-283-3609
Research Center for Language and Culture	Bayou 1325	281-283-3580
Learning Resources Review Center	Bayou 3402	281-283-3900
Office of the Associate Dean	Bayou 1231	281-283-3620
Office of the Dean	Bayou 1237	281-283-3501
College of Education Website	<a href="http://www.uhcl.edu/soe">www.uhcl.edu/soe</a>	
Council for the Accreditation of Educator Preparation (CAEP)	<a href="http://www.caepnet.org">www.caepnet.org</a>	
New Teachers Online (NTOL)	<a href="http://www.uhcl.edu/soe/ntol">www.uhcl.edu/soe/ntol</a>	
College of Education E-mail address	<a href="mailto:education@uhcl.edu">education@uhcl.edu</a>	

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 quoted below. 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.

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:

1. Excellence and innovation in learner-centered teaching and learning for all

2. The value and understanding of all types of diversity
3. Professional and personal integrity
4. Effective use of technologies
5. Partnerships with and service to the community
6. Ongoing assessment for both candidate and program improvement
7. 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.

## ACCOUNTABILITY AND ACCREDITATION

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 2014-2015 academic year were evaluated and compared to the pass rates of the state and national groups of program completers. At UHCL, students from 2014-2015 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 15 Texas higher education institutions to be accredited by CAEP. CAEP has rigorous academic guidelines for initial and advanced levels of educator certification. CAEP 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 2014-2015 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 2015-2016, programs were evaluated on pass rates, principal appraisals of beginning teachers and on the field supervision support given to beginning teachers. For 2016-2017, programs will additionally be evaluated for accreditation on the improvement in achievement made by the students of UHCL's beginning teachers and on teacher satisfaction surveys.

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. Just as students may be withdrawn from their program for not meeting the academic requirements, they may also be withdrawn for not meeting the professional disposition standards. The Statement on Professional Dispositions is found at [http://prtl.uhcl.edu/portal/page/portal/SOE/Forms/form\\_files/DISPOSITIONS.pdf](http://prtl.uhcl.edu/portal/page/portal/SOE/Forms/form_files/DISPOSITIONS.pdf).

## FIELD EXPERIENCE COURSES

In the College of Education (COE) Course Roster, there are many courses which have descriptions that end with "Field experiences required." 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.

## 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 [http://tea.texas.gov/Texas\\_Educators/Investigations/Educators\\_\\_Code\\_of\\_Ethics/](http://tea.texas.gov/Texas_Educators/Investigations/Educators__Code_of_Ethics/)

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: [http://tea.texas.gov/Texas\\_Educators/Investigations/Preliminary\\_Criminal\\_History\\_Evaluation-FAQs/](http://tea.texas.gov/Texas_Educators/Investigations/Preliminary_Criminal_History_Evaluation-FAQs/).

## **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/student 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 II Candidates.

Field-based experiences and graduate internships and practicums take place in a variety of settings in twenty-two local area school 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 in what was McWhirter Elementary School in Webster, Texas, and opened at the beginning of the 2002-2003 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. The main focus of the PDLS is to provide educational opportunities for UHCL and CCISD 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; prepares deficiency plans; and tracks data for Title II and the Accountability Standards for Educator Preparation (ASEP-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. The UHCL ACP meets the requirements of the U.S. Department of Education's (USDE) definition of "highly qualified" under the No Child Left Behind Law (NCLB). 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 content state assessments required for the certification area being sought.



## ***ADMISSION REQUIREMENTS FOR ALTERNATIVE CERTIFICATION PROGRAM (ACP)***

Students must have the following:

1. Degree - Must have an earned 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. State Assessments - Must pass all required state assessments.
3. University of Houston-Clear Lake (UHCL) Enrollment - Must be admitted to UHCL by the Office of Admissions before the Alternative Certification Program (ACP) application deadline in order for the College of Education (COE) Office of Academic Advising to obtain transcripts from the Office of Admissions to calculate a grade point average (GPA). Enroll as either a graduate or post-baccalaureate Teacher Certification student. Must be formally admitted by letter to the COE Teacher Education Program (TEP) prior to enrollment in the ACP. See a COE Academic Adviser for the most current list of updated TEP Admission requirements. Educator candidates who were educated in countries where English is not the native language must demonstrate English proficiency by passing the TOEFL-iBT test with a score of 26 on the Speaking portion. No other tests are accepted by TEA. Submit the TEP application form and all supporting documentation to the COE Certification Office in B1231.
4. Admission to TEP is required before accepting a position with a school district.
5. Students must have thirty documented clock hours of K-12 experience observation to be eligible for ACP.
6. GPA - Must have at least a 2.750 overall GPA. This overall GPA includes all coursework from all collegiate institutions attended-not just UHCL. If students do not have at least a 2.750 overall GPA, then at least a 2.750 GPA in the last 60 hours of coursework may be accepted (includes all coursework in the semester of the 60th hour).
7. Application - Must complete the ACP application (available at an individual informational meeting held with Academic Advising and/or with the Office of the Center for Professional Development of Teachers (CPDT, B1231-4). Application must be submitted to the CPDT office by the deadline posted on the ACP application. The deadline is January 1 for the spring semester and August 1 for the fall semester.
8. Fees - A non-refundable \$60 ACP fee is paid to the CPDT office and is valid for 12 months from the date of application. A \$131 state assessments fee is paid to Educational Testing Service (ETS) during online registration. Partial refunds will be made for state assessments cancelled during regular or late registration periods. No refunds will be made for cancellations after the late registration period.
9. Acceptance Letter – A letter of acceptance sent by the CPDT confirming the student has met the above requirements for entry into the UHCL ACP.

The teaching position must be with one of the UHCL CPDT Teacher Center Board member districts.

The following is a list of member districts:

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	Pearland	Santa Fe
Sheldon	Texas City		

### ***QUALIFIED ALTERNATIVE CERTIFICATION PROGRAM (ACP) STUDENTS***

Upon acceptance, qualified students will complete the following steps:

1. Probationary Certificate - Students must apply online for a Probationary certificate issued by the Texas Education Agency (TEA) at <http://tea.texas.gov> under "Educator Login" and "Applications and Probationary Certification." There is a \$52 fee for the certificate and a \$39.50 fee for fingerprinting and a background check, both of which are paid online at the Web site. Students must have a professional fingerprinting service digitally scan their prints and send them to the TEA. The TEA will conduct its criminal background check using these scans by running them through the Federal Bureau of Investigations (FBI) and the Department of Public Safety (DPS) databases. A maximum of three Probationary certificates may be issued by the TEA per student (one per academic year) and students must reapply for them each year. The TEA may or may not issue a Probationary certificate to anyone formerly on an emergency permit or other permit. Students should have the school district contact the TEA if the district has a concern with this issue.
2. Alternative Certification Program (ACP) Fee - A non-refundable fee of \$3,000 (subject to change) will be deducted from each ACP student's annual salary by the school district. This fee supports the administration of the program, the university supervisor, the public school mentor, and the student's release time classroom substitute. Students who require a second or third year to complete the program will have a fee of \$900 deducted from their salary each semester for the same reasons stated above (\$1800 yearly). Three years is the maximum allowed time to complete the program. Students will register for the ACP Internship course every semester once hired in addition to any remaining courses required for completion of their certification. TCED 4678 will be taken during the first UHCL semester of employment. TCED 4679 will be taken during the second UHCL semester of employment. TCED 4079 will be taken each UHCL semester during the second and third year of employment until the student has completed the program requirements and is eligible for recommendation for certification.
3. Certification Plan - Students' transcripts will be analyzed during the first semester at University of Houston-Clear Lake (UHCL). The College of Education's (COE) Office of Academic Advising will create a Candidate Plan of Study (CPS) for all students. (Deficiency plans are not used by the ACP). Students will receive a card in the mail with instructions to come to B1231 to sign the plan. See the Post-Baccalaureate Teacher Certification (p. 182) sections of the catalog, and COE website for additional details on the COE plans.
4. Plan Completion - Students will assume all tuition, fees and other costs for required university coursework, and complete all the requirements listed on the plan. Students must then apply for the Standard Classroom Teaching certificate online and pay the TEA a \$78 fee. UHCL then recommends students for the certificates at the TEA online.

## 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 make sure 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. Students seeking bilingual certification must take the Bilingual Target Language Proficiency Test (BTLPT) in addition to their content and pedagogy exams. To determine which state assessments are required for a certificate, students should check their degree or certification plan.

Initial certification students at UHCL may 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, and
- Must be formally admitted to the Teacher Education Program (TEP).
- Must pass a practice test and perform a score analysis to determine areas of weakness.

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) at [www.texas.ets.org](http://www.texas.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.

The following study aids are available to help prepare students for the state assessments:

- Study Guides - Free, printable preparation manuals for every certification area are available through ETS at <http://www.texas.ets.org/prepMaterials/>.
- Library - The UHCL Neumann Library has the ETS TExES study guides on reserve for students' use. The library also has TExES study guides other than those published by the ETS. The

curriculum library, housed in Neumann Library, has numerous textbooks for all grade levels and most subject areas, which students may find useful in preparing for the content exams.

- Practice Tests
  - Paper-based practice tests are administered in TCED 4100 (p. 407), Core Subjects Teacher Seminar and TCED 4102 (p. 407), Secondary (4-8 & 7-12) Content Teacher Seminar. The COE's Office of State Assessments also gives practice tests approximately once a month. Call 281-283-3609 for dates, times and locations, or go to the COE home page, scroll down to the link to Texas Practice Test Schedule.
  - Computer-administered practice tests, purchased from Certify Teacher are available in the Bayou 3608 computer lab for most certification areas.
  - Online practice tests have been purchased from Exam Edge which are issued to students who need additional test preparation after having taken the paper-based and computer-administered practice tests.
- Review Sessions/Tutoring - Faculty often work with students through individual tutoring sessions to help prepare them for the state assessments.

## 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, alternative certification plans or deficiency 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](mailto: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 <http://prtl.uhcl.edu/portal/page/portal/SOE/Forms/Students/>.

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/](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:

1. Core Subjects EC-6 (Early Childhood Concentration) (p. 140)
2. Core Subjects EC-6 (Reading Concentration) (p. 142)

3. Core Subjects EC-6 with Bilingual Supplemental (p. 144)
4. Core Subjects EC-6 with EC-12 Special Education (All Level) (p. 146)
5. Core Subjects EC-6 with ESL Supplemental (p. 143)
6. Core Subjects 4-8 (p. 148)
7. Core Subjects with ESL Supplemental 4-8 (p. 150)
8. Science 4-8 (p. 152)
9. Social Studies 4-8 (p. 154)

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 [CSE]) 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.

## DEGREE AND EC-6 TEACHER CERTIFICATION REQUIREMENTS

The following EC-6 plans are currently offered in the College of Education (COE) at UHCL. Please check with the Office of Academic Advising for the most recent list of certification plans.

1. Core Subjects EC-6 (Early Childhood Concentration)
2. Core Subjects EC-6 (Reading Concentration)
3. Core Subjects EC-6 with Bilingual Supplemental Certification
4. Core Subjects EC-6 with ESL Supplemental Certification
5. Core Subjects EC-6 with Special Education EC-12 (All Levels)

## INTERDISCIPLINARY STUDIES B.S. WITH CORE SUBJECTS EC-6 CERTIFICATION (EARLY CHILDHOOD CONCENTRATION)

### Degree Requirements

#### University Core Requirements

#### Communications:

WRIT 1301	Composition I
WRIT 1302	Composition II
Equivalent to ENGL 1301 and 1302	

#### Mathematics:

MATH 1314	College Algebra
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#### Life and Physical Sciences:

Choose TWO courses from the core approved list

#### Language, Philosophy and Culture:

Choose ONE course from the core approved list

#### Creative Arts

ARTS 2379	Arts and the Child
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**U.S. History**

HIST 1301	United States History I
HIST 1302	United States History II

**Government/Political Science**

POLS 2305	Federal Government
POLS 2306	Texas Government
	Equivalent to GOVT 2305 and 2306

**Social/Behavior Science**

Choose ONE course from the core approved list

**Component Area Option**

COMM 1315	Public Speaking
	Equivalent to SPCH 1315
PSYC 1100	Learning Frameworks
	Two 1-hr life or physical science labs - required co-requisites for the chosen science courses.

**College of Education Core Requirements:**

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism
SPED 2301	Introduction to Special Populations
	Equivalent to EDUC 2301
SPED 4300	Survey of Exceptionalities
TCED 1301	Exploring Teaching as a Profession
	Equivalent to EDUC 1301

**Major Requirements:**

ECED 1303	Children and Families
	Equivalent to TECA 1303
ECED 1354	Developmental Theories of Young Children
	Equivalent to TECA 1354
ECED 4302	Developing Competence in Young Children
ECED 4311	Reading Development in Young Children
ECED 4314	Observational/Developmental Assessment of Young Children
HLTH 3302	Health and Physical Education - EC-6 Survey
LLS 4311	Survey of Reading
LLS 4344	Reading & Writing for EC-6
LLS 4345	Survey of Children's Literature
MATH 1350	Fundamentals of Math I
MATH 1351	Fundamentals of Math II
TCED 4100	Core Subjects Teacher Seminar
TCED 4303	Creating Positive Learning Environments in EC-6

Choose TWO Natural Science courses in addition to the University Core

**Choose ONE from the following list:**

WRIT 3304	Writing for Education
WRIT 3307	Advanced Writing

**Pedagogy Requirements:**

TCED 4321	Social Studies Methods for EC-6
TCED 4322	Science Methods for EC-6
TCED 4323	Mathematics Methods for EC-6
TCED 4378	Pre-Service Internship I
TCED 4978	Pre-Service Internship II/Student Teaching

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)

### Degree Requirements

#### University Core Requirements

##### Communications:

WRIT 1301	Composition I
WRIT 1302	Composition II
	Equivalent to ENGL 1301 and 1302

##### Mathematics:

MATH 1314	College Algebra
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##### Life and Physical Sciences:

Choose TWO courses from the core approved list

##### Language, Philosophy and Culture:

Choose ONE course from the core approved list

##### Creative Arts

ARTS 2379	Arts and the Child
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##### U.S. History

HIST 1301	United States History I
HIST 1302	United States History II

##### Government/Political Science

POLS 2305	Federal Government
POLS 2306	Texas Government
	Equivalent to GOVT 2305 and 2306

##### Social/Behavior Science

Choose ONE course from the core approved list

##### Component Area Option

COMM 1315	Public Speaking
	Equivalent to SPCH 1315
PSYC 1100	Learning Frameworks
	Two 1-hr life or physical science labs - required co-requisites for the chosen science courses.

##### College of Education Core Requirements:

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism
SPED 2301	Introduction to Special Populations
	Equivalent to EDUC 2301
SPED 4300	Survey of Exceptionalities
TCED 1301	Exploring Teaching as a Profession
	Equivalent to EDUC 1301

##### Major Requirements:

HLTH 3302	Health and Physical Education - EC-6 Survey
LLS 4311	Survey of Reading
LLS 4313	Corrective and Remedial Reading
LLS 4332	Diagnostic and Prescriptive Reading
LLS 4344	Reading & Writing for EC-6
LLS 4345	Survey of Children's Literature
LLS 4347	Multicultural Literature
LLS 4379	Practicum in Clinical Reading
MATH 1350	Fundamentals of Math I
MATH 1351	Fundamentals of Math II
MATH 3306	Problem Solving
TCED 4100	Core Subjects Teacher Seminar

TCED 4303                      Creating Positive Learning Environments in EC-6  
Choose TWO Natural Science courses in addition to the University Core

**Choose ONE from the following list:**

WRIT 3304                      Writing for Education  
WRIT 3307                      Advanced Writing

**Pedagogy Requirements:**

TCED 4321                      Social Studies Methods for EC-6  
TCED 4322                      Science Methods for EC-6  
TCED 4323                      Mathematics Methods for EC-6  
TCED 4378                      Pre-Service Internship I  
TCED 4978                      Pre-Service Internship II/Student Teaching

GPA of 2.500 or higher required in LLS 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 WITH ESL SUPPLEMENTAL CERTIFICATION**

### **Degree Requirements**

#### **University Core Requirements**

##### **Communications:**

WRIT 1301                      Composition I  
WRIT 1302                      Composition II  
Equivalent to ENGL 1301 and 1302

##### **Mathematics:**

MATH 1314                      College Algebra

##### **Life and Physical Sciences:**

Choose TWO courses from the core approved list

##### **Language, Philosophy and Culture:**

Choose ONE course from the core approved list

##### **Creative Arts**

ARTS 2379                      Arts and the Child

##### **U.S. History**

HIST 1301                      United States History I  
HIST 1302                      United States History II

##### **Government/Political Science**

POLS 2305                      Federal Government  
POLS 2306                      Texas Government  
Equivalent to GOVT 2305 and 2306

##### **Social/Behavior Science**

Choose ONE course from the core approved list

##### **Component Area Option**

COMM 1315                      Public Speaking  
Equivalent to SPCH 1315  
PSYC 1100                      Learning Frameworks  
Two 1-hr life or physical science labs - required co-requisites for the chosen science courses.



**College of Education Core Requirements:**

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism
SPED 2301	Introduction to Special Populations Equivalent to EDUC 2301
SPED 4300	Survey of Exceptionalities
TCED 1301	Exploring Teaching as a Profession Equivalent to EDUC 1301

**Major Requirements:**

HLTH 3302	Health and Physical Education - EC-6 Survey
LLS 4311	Survey of Reading
LLS 4344	Reading & Writing for EC-6
LLS 4345	Survey of Children's Literature
MATH 1350	Fundamentals of Math I
MATH 1351	Fundamentals of Math II
SILC 4302	Introduction to the Study of Languages
SILC 4310	Foundations of Bilingual and ESL Education
SILC 4311	ESL Methods
SILC 4312	Content-Based ESL
SILC 4313	Language Learning
TCED 4100	Core Subjects Teacher Seminar
TCED 4303	Creating Positive Learning Environments in EC-6

Choose TWO Natural Science courses in addition to the University Core

**Choose ONE from the following list:**

WRIT 3304	Writing for Education
WRIT 3307	Advanced Writing

**Pedagogy Requirements:**

TCED 4321	Social Studies Methods for EC-6
TCED 4322	Science Methods for EC-6
TCED 4323	Mathematics Methods for EC-6
TCED 4378	Pre-Service Internship I
TCED 4978	Pre-Service Internship II/Student Teaching

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 WITH BILINGUAL SUPPLEMENTAL CERTIFICATION**

**Degree Requirements****University Core Requirements****Communications:**

WRIT 1301	Composition I
WRIT 1302	Composition II Equivalent to ENGL 1301 and 1302

**Mathematics:**

MATH 1314	College Algebra
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**Life and Physical Sciences:**

Choose TWO courses from the core approved list

**Language, Philosophy and Culture:**

Choose ONE course from the core approved list

### **Creative Arts**

ARTS 2379                      Arts and the Child

### **U.S. History**

HIST 1301                      United States History I  
HIST 1302                      United States History II

### **Government/Political Science**

POLS 2305                      Federal Government  
POLS 2306                      Texas Government  
Equivalent to GOVT 2305 and 2306

### **Social/Behavior Science**

Choose ONE course from the core approved list

### **Component Area Option**

COMM 1315                      Public Speaking  
Equivalent to SPCH 1315  
PSYC 1100                      Learning Frameworks  
Two 1-hr life or physical science labs - required co-requisites for the chosen science courses.

### **College of Education Core Requirements:**

EDUC 4310                      Theories of Educational Psychology  
INST 3313                      Survey of Instructional Technologies  
SILC 4315                      Theories of American Pluralism  
SPED 2301                      Introduction to Special Populations  
Equivalent to EDUC 2301  
SPED 4300                      Survey of Exceptionalities  
TCED 1301                      Exploring Teaching as a Profession  
Equivalent to EDUC 1301

### **Major Requirements:**

HLTH 3302                      Health and Physical Education - EC-6 Survey  
LLS 4311                      Survey of Reading  
LLS 4344                      Reading & Writing for EC-6  
LLS 4345                      Survey of Children's Literature  
MATH 1350                      Fundamentals of Math I  
MATH 1351                      Fundamentals of Math II  
SILC 4301                      Spanish for Bilingual Teachers  
SILC 4310                      Foundations of Bilingual and ESL Education  
SILC 4313                      Language Learning  
SILC 4316                      Bilingual Curriculum in the Content Areas  
SILC 4351                      Development of Biliteracy  
TCED 4100                      Core Subjects Teacher Seminar  
TCED 4303                      Creating Positive Learning Environments in EC-6

Choose TWO Natural Science courses in addition to the University Core

### **Choose ONE from the following list:**

WRIT 3304                      Writing for Education  
WRIT 3307                      Advanced Writing

### **Pedagogy Requirements:**

TCED 4321                      Social Studies Methods for EC-6  
TCED 4322                      Science Methods for EC-6  
TCED 4323                      Mathematics Methods for EC-6  
TCED 4378                      Pre-Service Internship I  
TCED 4978                      Pre-Service Internship II/Student Teaching

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 (ALL LEVEL) CERTIFICATION**

### **Degree Requirements**

#### **University Core Requirements**

##### **Communications:**

WRIT 1301	Composition I
WRIT 1302	Composition II
	Equivalent to ENGL 1301 and 1302

##### **Mathematics:**

MATH 1314	College Algebra
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##### **Life and Physical Sciences:**

Choose TWO courses from the core approved list

##### **Language, Philosophy and Culture:**

Choose ONE course from the core approved list

##### **Creative Arts**

ARTS 2379	Arts and the Child
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##### **U.S. History**

HIST 1301	United States History I
HIST 1302	United States History II

##### **Government/Political Science**

POLS 2305	Federal Government
POLS 2306	Texas Government
	Equivalent to GOVT 2305 and 2306

##### **Social/Behavior Science**

Choose ONE course from the core approved list

##### **Component Area Option**

COMM 1315	Public Speaking
	Equivalent to SPCH 1315
PSYC 1100	Learning Frameworks
	Two 1-hr life or physical science labs - required co-requisites for the chosen science courses.

##### **College of Education Core Requirements:**

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism
SPED 2301	Introduction to Special Populations
	Equivalent to EDUC 2301
TCED 1301	Exploring Teaching as a Profession
	Equivalent to EDUC 1301

##### **Major Requirements:**

HLTH 3302	Health and Physical Education - EC-6 Survey
LLS 4311	Survey of Reading
LLS 4313	Corrective and Remedial Reading
LLS 4332	Diagnostic and Prescriptive Reading
LLS 4344	Reading & Writing for EC-6
MATH 1350	Fundamentals of Math I
MATH 1351	Fundamentals of Math II
SPED 4311	Assessment in Special Education
SPED 4312	Diagnostic Instruction for Learners With Special Needs

SPED 4313	Individualizing Instruction for Students With Disabilities
SPED 4321	Implementing Positive Behavior Supports
SPED 4332	Early Childhood Special Education
TCED 4100	Core Subjects Teacher Seminar
TCED 4303	Creating Positive Learning Environments in EC-6

Choose TWO Natural Science courses in addition to the University Core

**Choose ONE from the following list:**

WRIT 3304	Writing for Education
WRIT 3307	Advanced Writing

**Pedagogy Requirements:**

TCED 4321	Social Studies Methods for EC-6
TCED 4322	Science Methods for EC-6
TCED 4323	Mathematics Methods for EC-6
TCED 4378	Pre-Service Internship I
TCED 4978	Pre-Service Internship II/Student Teaching

GPA of 2.500 or higher required in SPED coursework.

Grade of B- or better required in WRIT 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.

**Notes Regarding the No Child Left Behind (NCLB) Highly Qualified Teacher Requirements:**

To be "Highly Qualified" for employment with a Special Education EC-12 teaching certificate to teach at the Elementary level (Grades EC-6), teachers must also earn a Core Subjects EC-6, Core Subjects 4-8 or a 4-8 content-specific teaching certificate. The University of Houston-Clear Lake (UHCL) undergraduate program includes the Core Subjects EC-6 certification. Those following a post-degree teacher certification plan will need to earn an additional certification by taking the appropriate Texas Examinations of Educator Standards (TExES) after having completed the UHCL Special Education EC-12 program. Fully certified teachers can register for the additional TExES as "By Exam Only."

To be "Highly Qualified" for employment with a Special Education EC-12 teaching certificate to teach at the Secondary level (grades 7-12), teachers must also earn the Core Subjects 4-8 certification, a 4-8 content-specific teaching certification or a 7-12 content-specific teaching certification. Fully certified teachers can register for the additional TExES as "By Exam Only."

For secondary teachers, the federal government is allowing use of passing an additional content test or holding an additional academic major, graduate degree or hours of coursework to be considered "Highly Qualified." For information pertinent to a Special Education job within a specific school district, contact the Texas Education Agency's (TEA's) NCLB representative at 1-512-463-9374 or view its Web site at

[http://tea.texas.gov/About\\_TEA/Laws\\_and\\_Rules/NCLB\\_and\\_ESEA/No\\_Child\\_Left\\_Behind\\_and\\_Elementary\\_and\\_Secondary\\_Education\\_Act/](http://tea.texas.gov/About_TEA/Laws_and_Rules/NCLB_and_ESEA/No_Child_Left_Behind_and_Elementary_and_Secondary_Education_Act/).

See the sections called "Highly Qualified Teachers."

## DEGREE AND 4-8 TEACHER CERTIFICATION REQUIREMENTS

The following 4-8 plans are currently offered at University of Houston-Clear Lake (UHCL). Please check with the Office of Academic Advising for the most recent list of certification plans.

## Grade 4-8 Plans at UHCL

### College of Education (COE):

- Core Subjects
- Core Subjects with English as a Second Language (ESL) Supplemental
- Science
- Social Studies

### College of Human Sciences and Humanities (HSH):

- English Language Arts and Reading

### College of Science and Engineering (CSE):

- Mathematics **Notes Regarding the No Child Left Behind (NCLB) Highly Qualified Teacher Requirements:**

To be "Highly Qualified" for employment to teach at the Elementary level (Grades EC-5), teacher candidates must pass a Core Subjects EC-6 or Core Subjects 4-8 Texas Examinations of Educator Standards (TExES) exam. Grade 6 is considered secondary by NCLB and does not require a generalist certificate if teaching only in a content area. Candidates may take a TExES Generalist exam after completing an initial certification program. Fully certified teachers may register for the additional TExES as "By Exam Only" at the Educational Testing Service (ETS) test registration Web site. Then they may apply at the State Board for Educator Certification (SBEC)/Texas Education Agency (TEA) Web site as "Certification by Examination" to add the Generalist certificate. Contact the TEA's No Child Left Behind (NCLB) office for further information at 1-512-463-9374

or [http://tea.texas.gov/About\\_TEA/Laws\\_and\\_Rules/NCLB\\_and\\_ESEA/No\\_Child\\_Left\\_Behind\\_and\\_Elementary\\_and\\_Secondary\\_Education\\_Act/](http://tea.texas.gov/About_TEA/Laws_and_Rules/NCLB_and_ESEA/No_Child_Left_Behind_and_Elementary_and_Secondary_Education_Act/). See the section called "Highly Qualified Teachers."

To be "Highly Qualified" for employment with a Special Education EC-12 teaching certificate to teach at the Secondary level (grades 6-12), teachers must also earn the Core Subjects 4-8, a 4-8 content-specific, or a 7-12 content-specific teaching certification. Fully certified teachers can register for the additional TExES as "By Exam Only." For secondary teachers, the federal government is allowing use of passing an additional content test or holding an additional academic major, graduate degree or hours of coursework to be considered "Highly Qualified." For information pertinent to a Special Education job within a specific school district, contact the TEA's NCLB representative at 1-512-463-9374 or view their Web site at [http://tea.texas.gov/About\\_TEA/Laws\\_and\\_Rules/NCLB\\_and\\_ESEA/No\\_Child\\_Left\\_Behind\\_and\\_Elementary\\_and\\_Secondary\\_Education\\_Act/](http://tea.texas.gov/About_TEA/Laws_and_Rules/NCLB_and_ESEA/No_Child_Left_Behind_and_Elementary_and_Secondary_Education_Act/). See the section called "Highly Qualified Teachers."

## INTERDISCIPLINARY STUDIES B.S. WITH CORE SUBJECTS 4-8 CERTIFICATION

### Degree Requirements

#### University Core Requirements

#### Communications:

WRIT 1301	Composition I
WRIT 1302	Composition II
	Equivalent to ENGL 1301 and 1302

#### Mathematics:

MATH 1314	College Algebra
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**Life and Physical Sciences:**

Choose TWO courses from the core approved list

**Language, Philosophy and Culture:**

Choose ONE course from the core approved list

**Creative Arts:**

Choose ONE course from the core approved list

**U.S. History**

HIST 1301	United States History I
HIST 1302	United States History II

**Government/Political Science**

POLS 2305	Federal Government
POLS 2306	Texas Government
	Equivalent to GOVT 2305 and 2306

**Social/Behavior Science**

Choose ONE course from the core approved list

**Component Area Option**

COMM 1315	Public Speaking
	Equivalent to SPCH 1315
PSYC 1100	Learning Frameworks
	Two 1-hr life or physical science labs - required co-requisites for the chosen science courses.

**College of Education Core Requirements:**

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism
SPED 2301	Introduction to Special Populations
	Equivalent to EDUC 2301
SPED 4300	Survey of Exceptionalities
TCED 1301	Exploring Teaching as a Profession
	Equivalent to EDUC 1301

**Major Requirements:**

LLS 4311	Survey of Reading
LLS 4345	Survey of Children's Literature
LLS 4346	Teaching Language Arts in the 4-8 Classroom
MATH 1350	Fundamentals of Math I
MATH 1351	Fundamentals of Math II
MATH 3304	Algebra Through Technology
MATH 3306	Problem Solving
TCED 4100	Core Subjects Teacher Seminar
TCED 4304	Creating Positive Learning Environments in 4-8

Choose TWO Natural Science courses in addition to the University Core

**Choose ONE from the following list:**

WRIT 3304	Writing for Education
WRIT 3307	Advanced Writing

**Choose TWO courses from the following:**

HIST 2301	Texas History
HIST 3301	Ancient World
HIST 3307	Medieval Europe
HIST 3309	Renaissance and Reformation
HIST 3317	Introduction to Latin American History
HIST 3319	Colonial Latin America
HIST 3321	Modern Latin America
HIST 3323	History of Mexico
HIST 3325	Colonial America
HIST 3327	The New American Nation
HIST 3329	Antebellum America
HIST 3330	Civil War and Reconstruction

HIST 4325                      Studies in Middle Eastern History

**Choose ONE course from the following:**

LITR 4326	Early American Literature
LITR 4338	American Minority Literature
LITR 4340	American Immigrant Literature
LITR 4362	The Literature of Adolescence
LITR 4364	Women in Literature
LITR 4368	Literature of the Future

**Choose ONE course from the following:**

GEOG 1303	World Regional Geography
GEOG 4300	Geography of the United States and Canada
GEOG 4302	Geography of Latin America
GEOG 4303	Geography of Texas
GEOG 4314	Teaching Geography

**Pedagogy Requirements:**

TCED 4323	Mathematics Methods for EC-6
TCED 4331	Social Studies Methods for Grades 4-8
TCED 4332	Science Methods for Grades 4-8
TCED 4378	Pre-Service Internship I
TCED 4978	Pre-Service Internship II/Student Teaching

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 WITH ESL SUPPLEMENTAL CERTIFICATION**

### **Degree Requirements**

#### **University Core Requirements**

##### **Communications:**

WRIT 1301	Composition I
WRIT 1302	Composition II
	Equivalent to ENGL 1301 and 1302

##### **Mathematics:**

MATH 1314	College Algebra
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##### **Life and Physical Sciences:**

Choose TWO courses from the core approved list

##### **Language, Philosophy and Culture:**

Choose ONE course from the core approved list

##### **Creative Arts:**

Choose ONE course from the core approved list

##### **U.S. History**

HIST 1301	United States History I
HIST 1302	United States History II

##### **Government/Political Science**

POLS 2305	Federal Government
POLS 2306	Texas Government

Equivalent to GOVT 2305 and 2306

### **Social/Behavior Science**

Choose ONE course from the core approved list

### **Component Area Option**

COMM 1315	Public Speaking Equivalent to SPCH 1315
PSYC 1100	Learning Frameworks Two 1-hr life or physical science labs - required co-requisites for the chosen science courses.

### **College of Education Core Requirements:**

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism
SPED 2301	Introduction to Special Populations Equivalent to EDUC 2301
SPED 4300	Survey of Exceptionalities
TCED 1301	Exploring Teaching as a Profession Equivalent to EDUC 1301

### **Major Requirements:**

LLS 4311	Survey of Reading
LLS 4346	Teaching Language Arts in the 4-8 Classroom
LLS 4351	Reading in Content Subjects
MATH 1350	Fundamentals of Math I
MATH 1351	Fundamentals of Math II
MATH 3304	Algebra Through Technology
SILC 4302	Introduction to the Study of Languages
SILC 4310	Foundations of Bilingual and ESL Education
SILC 4311	ESL Methods
SILC 4312	Content-Based ESL
SILC 4313	Language Learning
TCED 4100	Core Subjects Teacher Seminar
TCED 4304	Creating Positive Learning Environments in 4-8

Choose TWO Natural Science courses in addition to the University Core

### **Choose ONE from the following list:**

WRIT 3304	Writing for Education
WRIT 3307	Advanced Writing

### **Choose ONE course from the following:**

LITR 3334	Mythology
LITR 3361	Shakespeare
LITR 4304	Workshop in Poetics
LITR 4312	Chaucer
LITR 4320	The Romantic Movement in British Literature
LITR 4322	Victorian Literature
LITR 4328	The American Renaissance
LITR 4330	American Realism and Naturalism
LITR 4335	American Modernism
LITR 4370	Tragedy
LITR 4371	Comedy
LLS 4345	Survey of Children's Literature

### **Pedagogy Requirements:**

TCED 4332	Science Methods for Grades 4-8
TCED 4333	Mathematics Methods for Grades 4-8
TCED 4378	Pre-Service Internship I
TCED 4978	Pre-Service Internship II/Student Teaching

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 SCIENCE 4-8 CERTIFICATION

### Degree Requirements

#### University Core Requirements

##### Communications:

WRIT 1301	Composition I
WRIT 1302	Composition II
	Equivalent to ENGL 1301 and 1302

##### Mathematics:

MATH 2412	Pre-Calculus Mathematics
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##### Life and Physical Sciences:

BIOL 1306	Biology for Science Majors I
	Equivalent to BIOL 1406
BIOL 1307	Biology for Science Majors II
	Equivalent to BIOL 1407

##### Language, Philosophy and Culture:

Choose ONE course from the core approved list

##### Creative Arts:

Choose ONE course from the core approved list

##### U.S. History

HIST 1301	United States History I
HIST 1302	United States History II

##### Government/Political Science

POLS 2305	Federal Government
POLS 2306	Texas Government
	Equivalent to GOVT 2305 and 2306

##### Social/Behavior Science

Choose ONE course from the core approved list

##### Component Area Option

COMM 1315	Public Speaking
	Equivalent to SPCH 1315
PSYC 1100	Learning Frameworks
BIOL 1106	Laboratory for Biology for Science Majors I
BIOL 1107	Laboratory for Biology for Science Majors II

##### College of Education Core Requirements:

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism
SPED 2301	Introduction to Special Populations
	Equivalent to EDUC 2301
SPED 4300	Survey of Exceptionalities
TCED 1301	Exploring Teaching as a Profession
	Equivalent to EDUC 1301

##### Major Requirements:

ASTR 3311	Modern Astronomy
CHEM 1311	General Chemistry I
	Equivalent to CHEM 1411
CHEM 1111	Laboratory for General Chemistry I
CHEM 1312	General Chemistry II

CHEM 1112	Equivalent to CHEM 1412
ENSC 1301	Laboratory for General Chemistry II
	Environmental Science I
ENSC 1101	Equivalent to ENVR 1401
GEOL 1303	Laboratory for Environmental Science I
	Physical Geology
GEOL 1103	Equivalent to GEOL 1403
GEOL 1304	Laboratory for Physical Geology
	Historical Geology
GEOL 1104	Equivalent to GEOL 1404
LLS 4311	Laboratory for Historical Geology
LLS 4351	Survey of Reading
MATH 1350	Reading in Content Subjects
MATH 1351	Fundamentals of Math I
PHYS 1301	Fundamentals of Math II
	College Physics I
PHYS 1101	Equivalent to PHYS 1401
PHYS 1302	Laboratory for College Physics I
	College Physics II
PHYS 1102	Equivalent to PHYS 1402
TCED 4102	Laboratory for College Physics II
TCED 4304	Secondary (4-8 & 7-12) Content Teacher Seminar
	Creating Positive Learning Environments in 4-8

### Choose ONE from the following list:

WRIT 3304	Writing for Education
WRIT 3307	Advanced Writing

### Pedagogy Requirements:

TCED 4332	Science Methods for Grades 4-8
TCED 4378	Pre-Service Internship I
TCED 4978	Pre-Service Internship II/Student Teaching

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.

### Notes Regarding the No Child Left Behind (NCLB) Highly Qualified Teacher Requirements:

To be "Highly Qualified" for employment to teach at the Elementary level (Grades EC-5), teacher candidates must pass a Core Subjects EC-6 or Core Subjects 4-8 Texas Examinations of Educator Standards (TExES) exam. Grade 6 is considered secondary by NCLB and does not require a Core Subjects certificate if teaching only in a content area. Candidates may take a TExES Core Subjects exam after completing an initial certification program. Fully certified teachers may register for the additional TExES as "By Exam Only" at the Educational Testing Service (ETS) test registration Web site. Then they may apply at the State Board for Educator Certification (SBEC)/Texas Education Agency (TEA) Web site as "Certification by Examination" to add the Core Subjects certificate. Contact TEA's NCLB office for further information at 1-512-463-9374 or

[http://tea.texas.gov/About\\_TEA/Laws\\_and\\_Rules/NCLB\\_and\\_ESEA/No\\_Child\\_Left\\_Behind\\_and\\_Elementary\\_and\\_Secondary\\_Education\\_Act/](http://tea.texas.gov/About_TEA/Laws_and_Rules/NCLB_and_ESEA/No_Child_Left_Behind_and_Elementary_and_Secondary_Education_Act/).

See the section called "Highly Qualified Teachers."

## INTERDISCIPLINARY STUDIES B.S. WITH SOCIAL STUDIES 4-8 CERTIFICATION

### Degree Requirements

#### University Core Requirements

##### Communications:

WRIT 1301	Composition I
WRIT 1302	Composition II
	Equivalent to ENGL 1301 and 1302

##### Mathematics:

MATH 1314	College Algebra
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##### Life and Physical Sciences:

Choose TWO courses from the core approved list

##### Language, Philosophy and Culture:

Choose ONE course from the core approved list

##### Creative Arts:

Choose ONE course from the core approved list

##### U.S. History

HIST 1301	United States History I
HIST 1302	United States History II

##### Government/Political Science

POLS 2305	Federal Government
POLS 2306	Texas Government
	Equivalent to GOVT 2305 and 2306

##### Social/Behavior Science

ECON 2302	Principles of Microeconomics
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##### Component Area Option

COMM 1315	Public Speaking
	Equivalent to SPCH 1315
PSYC 1100	Learning Frameworks
	Two 1-hr life or physical science labs - required co-requisites for the chosen science courses.

##### College of Education Core Requirements:

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism
SPED 2301	Introduction to Special Populations
	Equivalent to EDUC 2301
SPED 4300	Survey of Exceptionalities
TCED 1301	Exploring Teaching as a Profession
	Equivalent to EDUC 1301

##### Major Requirements:

GEOG 1301	Modern Physical Geography
GEOG 1303	World Regional Geography
GEOG 4312	Human Geography
GEOG 4314	Teaching Geography
HIST 2301	Texas History
HIST 3325	Colonial America
HIST 3327	The New American Nation
HIST 3330	Civil War and Reconstruction
LLS 4311	Survey of Reading
LLS 4345	Survey of Children's Literature
LLS 4351	Reading in Content Subjects
MATH 1350	Fundamentals of Math I

MATH 1351	Fundamentals of Math II
TCED 4102	Secondary (4-8 & 7-12) Content Teacher Seminar
TCED 4304	Creating Positive Learning Environments in 4-8

Choose TWO Natural Science courses in addition to the University Core

**Choose ONE from the following list:**

WRIT 3304	Writing for Education
WRIT 3307	Advanced Writing

**Pedagogy Requirements:**

TCED 4331	Social Studies Methods for Grades 4-8
TCED 4378	Pre-Service Internship I
TCED 4978	Pre-Service Internship II/Student Teaching

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.

**Notes Regarding the No Child Left Behind (NCLB) Highly Qualified Teacher Requirements:**

To be "Highly Qualified" for employment to teach at the Elementary level (Grades EC-5), teacher candidates must pass a Core Subjects EC-6 or Core Subjects 4-8 Texas Examinations of Educator Standards (TExES) exam. Grade 6 is considered secondary by NCLB and does not require a Core Subjects certificate if teaching only in a content area. Candidates may take a TExES Core Subjects exam after completing an initial certification program. Fully certified teachers may register for the additional TExES as "By Exam Only" at the Educational Testing Service (ETS) test registration Web site. Then they may apply at the State Board for Educator Certification (SBEC)/Texas Education Agency (TEA) Web site as "Certification by Examination" to add the Core Subjects certificate. Contact TEA's NCLB office for further information at 1-512-463-9374 or

[http://tea.texas.gov/About\\_TEA/Laws\\_and\\_Rules/NCLB\\_and\\_ESEA/No\\_Child\\_Left\\_Behind\\_and\\_Elementary\\_and\\_Secondary\\_Education\\_Act/](http://tea.texas.gov/About_TEA/Laws_and_Rules/NCLB_and_ESEA/No_Child_Left_Behind_and_Elementary_and_Secondary_Education_Act/).

See the section called "Highly Qualified Teachers."

## LITERATURE B.A. WITH ENGLISH LANGUAGE ARTS AND READING 4-8 CERTIFICATION

*This certificate is offered through the College of Education (COE) with the degree being offered through the College of Human Sciences and Humanities (HSH). Please refer to HSH's portion of the catalog (p. 233) for additional information regarding its degrees.*

### Degree Requirements

#### University Core Requirements

##### Communications:

WRIT 1301	Composition I
WRIT 1302	Composition II
	Equivalent to ENGL 1301 and 1302

##### Mathematics:

Choose ONE course from the following:

MATH 1314	College Algebra
MATH 1332	Mathematics for Liberal Arts

**Life and Physical Sciences:**

Choose TWO courses from the core approved list

**Language, Philosophy and Culture:**

Choose ONE course from the core approved list

**Creative Arts:**

Choose ONE course from the core approved list

**U.S. History**

HIST 1301	United States History I
HIST 1302	United States History II

**Government/Political Science**

POLS 2305	Federal Government
POLS 2306	Texas Government
	Equivalent to GOVT 2305 and 2306

**Social/Behavior Science**

Choose ONE course from the core approved list

**Component Area Option**

COMM 1315	Public Speaking
	Equivalent to SPCH 1315
PSYC 1100	Learning Frameworks
	Two 1-hr life or physical science labs - required co-requisites for the chosen science courses.

**College of Human Science and Humanities Core Requirements:**

Choose ONE course from the following list:

WRIT 3304	Writing for Education
WRIT 3307	Advanced Writing

48 hours of upper-level credit must be C or better.

**Humanities Requirement:**

Choose ONE course from the following list:

HUMN 3374	Critical Inquiry
HUMN 3375	Ideas in Transition
PHIL 3331	Ethics
PHIL 4314	The Great Philosophers I
PHIL 4315	The Great Philosophers II

**Human Science Requirement:**

Choose ONE course from the following list:

ANTH 3311	Contemporary Cultural Anthropology
ANTH 4352	World Prehistory and Archaeology
PSYC 3331	Theories of Personality
PSYC 4311/SOCI 4311	Social Psychology
SOCI 4312	Social Structure: Class, Power, and Status
SOCI 4322	Theories of Society
WMST 4308/HUMN 4308/PSYC 4308/SOCI 4308	Introduction to Women's Studies

**College of Education Core Requirements:**

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism
SPED 2301	Introduction to Special Populations
	Equivalent to EDUC 2301
SPED 4300	Survey of Exceptionalities
TCED 1301	Exploring Teaching as a Profession
	Equivalent to EDUC 1301

**Major Requirements:**

Choose TWO LITR 2300-level American or British Literature Courses

Choose ONE American Literature Course (3000/4000 level)

Choose ONE British Literature Course (3000/4000 level)

Choose ONE British Literature Course (pre-1700) Course (3000/4000 level)

Choose ONE World or Multicultural Literature Course (3000/4000 level)

Choose ONE Pre-1800 Literature Course (3000/4000 level)

Choose ONE Literature Elective (3000/4000 level)

LITR 3301	Literary Studies: Genres and Critical Perspectives
LITR 3302	Principles of Composition
LLS 4311	Survey of Reading
LLS 4346	Teaching Language Arts in the 4-8 Classroom
LLS 4351	Reading in Content Subjects
MATH 1350	Fundamentals of Math I
MATH 1351	Fundamentals of Math II
TCED 4102	Secondary (4-8 & 7-12) Content Teacher Seminar
TCED 4304	Creating Positive Learning Environments in 4-8

Choose TWO Natural Science courses in addition to the University Core

**Pedagogy Requirements:**

TCED 4378 Pre-Service Internship I

TCED 4978 Pre-Service Internship II/Student Teaching

GPA of 2.500 or higher required in LITR and LLS 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.

**Notes Regarding the No Child Left Behind (NCLB) Highly Qualified Teacher Requirements:**

To be "Highly Qualified" for employment to teach at the Elementary level (Grades EC-5), teacher candidates must pass a Core Subjects EC-6 or Core Subjects 4-8 Texas Examinations of Educator Standards (TExES) exam. Grade 6 is considered secondary by NCLB and does not require a Core Subjects certificate if teaching only in a content area. Candidates may take a TExES Core Subjects exam after completing an initial certification program. Fully certified teachers may register for the additional TExES as "By Exam Only" at the Educational Testing Service (ETS) test registration Web site. Then they may apply at the State Board for Educator Certification (SBEC)/Texas Education Agency (TEA) Web site as "Certification by Examination" to add the Core Subjects certificate. Contact TEA's NCLB office for further information at 1-512-463-9374 or [http://tea.texas.gov/About\\_TEA/Laws\\_and\\_Rules/NCLB\\_and\\_ESEA/No\\_Child\\_Left\\_Behind\\_and\\_Elementary\\_and\\_Secondary\\_Education\\_Act/](http://tea.texas.gov/About_TEA/Laws_and_Rules/NCLB_and_ESEA/No_Child_Left_Behind_and_Elementary_and_Secondary_Education_Act/).

See the section called "Highly Qualified Teachers."

**MATHEMATICS B.A. WITH MATHEMATICS 4-8 CERTIFICATION**

*This certificate is offered through the College of Education (COE) with the degree being offered through the College of Science and Computer Engineering (CSE). Please refer to CSE's portion of the catalog (p. 273) for additional information regarding its degrees.*

## Degree Requirements

### University Core Requirements

#### Communications:

WRIT 1301	Composition I
WRIT 1302	Composition II
	Equivalent to ENGL 1301 and 1302

#### Mathematics:

MATH 2413	Calculus I
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#### Life and Physical Sciences:

Choose TWO courses from the core approved list

#### Language, Philosophy and Culture:

Choose ONE course from the core approved list

#### Creative Arts:

Choose ONE course from the core approved list

#### U.S. History

HIST 1301	United States History I
HIST 1302	United States History II

#### Government/Political Science

POLS 2305	Federal Government
POLS 2306	Texas Government
	Equivalent to GOVT 2305 and 2306

#### Social/Behavior Science

Choose ONE course from the core approved list

#### Component Area Option

COMM 1315	Public Speaking
	Equivalent to SPCH 1315
PSYC 1100	Learning Frameworks
	Two 1-hr life or physical science labs - required co-requisites for the chosen science courses.

#### College of Education Core Requirements:

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism
SPED 2301	Introduction to Special Populations
	Equivalent to EDUC 2301
SPED 4300	Survey of Exceptionalities
TCED 1301	Exploring Teaching as a Profession
	Equivalent to EDUC 1301

#### Major Requirements:

LLS 4311	Survey of Reading
LLS 4351	Reading in Content Subjects
MATH 1350	Fundamentals of Math I
MATH 1351	Fundamentals of Math II
MATH 2318	Linear Algebra
MATH 2414	Calculus II
MATH 3300	Introduction to Modern Algebra and Number Theory
MATH 3304	Algebra Through Technology
MATH 4344	Introduction to Probability
TCED 4102	Secondary (4-8 & 7-12) Content Teacher Seminar
TCED 4304	Creating Positive Learning Environments in 4-8
WRIT 3315	Advanced Technical Writing

Choose TWO Natural Science Electives, in addition to the University Core science (6 hours from: ASTR, BIOL, CHEM, ENSC, GEOL or PHYS)

Choose THREE courses from the following list of 9 choices:

MATH 2315	Calculus III
MATH 3301	History of Mathematical Sciences
MATH 3305	Euclidian and Non-Euclidian Geometry
MATH 3312	Number Theory
MATH 4315	Numerical Analysis and its Applications
MATH 4316	Mathematic Software Applications
MATH 4321	Predicate Logic
MATH 4322	Introduction to Abstract Algebra
MATH 4345	Introduction to Statistics

### **Pedagogy Requirements:**

TCED 4333	Mathematics Methods for Grades 4-8
TCED 4378	Pre-Service Internship I
TCED 4978	Pre-Service Internship II/Student Teaching

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.

### **Notes Regarding the No Child Left Behind (NCLB) Highly Qualified Teacher Requirements:**

To be "Highly Qualified" for employment to teach at the Elementary level (Grades EC-5), teacher candidates must pass a Core Subjects EC-6 or Core Subjects 4-8 Texas Examinations of Educator Standards (TExES) exam. Grade 6 is considered secondary by NCLB and does not require a Core Subjects certificate if teaching only in a content area. Candidates may take a TExES Core Subjects exam after completing an initial certification program. Fully certified teachers may register for the additional TExES as "By Exam Only" at the Educational Testing Service (ETS) test registration Web site. Then they may apply at the State Board for Educator Certification (SBEC)/Texas Education Agency (TEA) Web site as "Certification by Examination" to add the Core Subjects certificate. Contact TEA's NCLB office for further information at 1-512-463-9374 or [http://tea.texas.gov/About\\_TEA/Laws\\_and\\_Rules/NCLB\\_and\\_ESEA/No\\_Child\\_Left\\_Behind\\_and\\_Elementary\\_and\\_Secondary\\_Education\\_Act/](http://tea.texas.gov/About_TEA/Laws_and_Rules/NCLB_and_ESEA/No_Child_Left_Behind_and_Elementary_and_Secondary_Education_Act/).

See the section called "Highly Qualified Teachers."

## **DEGREE AND 7-12 TEACHER CERTIFICATION REQUIREMENTS**

The following 7-12 plans are offered at University of Houston-Clear Lake (UHCL). Please check with the Office of Academic Advising for the most recent list of certification plans.

### **Grade 7-12 plans at UHCL**

#### **College of Human Sciences and Humanities (HSH):**

- English Language Arts and Reading 7-12
- History 7-12
- Social Studies 7-12 (Geography)
- Social Studies 7-12 (History)

#### **College of Science and Engineering (CSE):**

- Life Sciences 7-12
- Mathematics 7-12



## LITERATURE B.A. WITH ENGLISH LANGUAGE ARTS AND READING 7-12 CERTIFICATION

*This certificate is offered through the College of Education (COE) with the degree being offered through the College of Human Sciences and Humanities (HSH). Please refer to HSH's portion of the catalog (p. 233) for additional information regarding its degrees.*

### Degree Requirements

#### University Core Requirements

##### Communications:

WRIT 1301	Composition I
WRIT 1302	Composition II
	Equivalent to ENGL 1301 and 1302

##### Mathematics:

Choose ONE course from the following:

MATH 1314	College Algebra
MATH 1332	Mathematics for Liberal Arts

##### Life and Physical Sciences:

Choose TWO courses from the core approved list

##### Language, Philosophy and Culture:

Choose ONE course from the core approved list

##### Creative Arts:

Choose ONE course from the core approved list

##### U.S. History

HIST 1301	United States History I
HIST 1302	United States History II

##### Government/Political Science

POLS 2305	Federal Government
POLS 2306	Texas Government
	Equivalent to GOVT 2305 and 2306

##### Social/Behavior Science

Choose ONE course from the core approved list

##### Component Area Option

COMM 1315	Public Speaking
	Equivalent to SPCH 1315
PSYC 1100	Learning Frameworks
	Two 1-hr life or physical science labs - required co-requisites for the chosen science courses.

#### College of Human Science and Humanities Core Requirements:

Choose ONE course from the following list:

WRIT 3304	Writing for Education
WRIT 3307	Advanced Writing

48 hours of upper-level credit must be C or better.

##### Humanities Requirement:

Choose ONE course from the following list:

HUMN 3374	Critical Inquiry
HUMN 3375	Ideas in Transition
PHIL 3331	Ethics
PHIL 4314	The Great Philosophers I
PHIL 4315	The Great Philosophers II

## Human Science Requirement:

Choose ONE course from the following list:

ANTH 3311	Contemporary Cultural Anthropology
ANTH 4352	World Prehistory and Archaeology
PSYC 3331	Theories of Personality
PSYC 4311/SOCI 4311	Social Psychology
SOCI 4312	Social Structure: Class, Power, and Status
SOCI 4322	Theories of Society
WMST 4308/HUMN 4308/PSYC 4308/SOCI 4308	Introduction to Women's Studies

## College of Education Core Requirements:

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism
SPED 2301	Introduction to Special Populations Equivalent to EDUC 2301
SPED 4300	Survey of Exceptionalities
TCED 1301	Exploring Teaching as a Profession Equivalent to EDUC 1301

## Major Requirements:

Choose TWO LITR 2300-level American or British Literature Courses

Choose ONE American Literature Course (3000/4000 level)

Choose ONE British Literature Course (3000/4000 level)

Choose ONE World or Multicultural Literature Course (3000/4000 level)

Choose ONE Pre-1800 Literature Course (3000/4000 level)

Choose TWO Literature Electives (3000/4000 level)

LITR 3301	Literary Studies: Genres and Critical Perspectives
LITR 3302	Principles of Composition
LITR 3361	Shakespeare
LLS 4313	Corrective and Remedial Reading
LLS 4332	Diagnostic and Prescriptive Reading
LLS 4352	Young Adult Literature and Reading
TCED 4102	Secondary (4-8 & 7-12) Content Teacher Seminar
TCED 4306	Creating Positive Learning Environments in 7-12

## Pedagogy Requirements:

LLS 4364	Methods in Secondary English/Language Arts
TCED 4378	Pre-Service Internship I
TCED 4978	Pre-Service Internship II/Student Teaching

GPA of 2.500 or higher required in LITR and LLS 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.

## HISTORY B.A. WITH HISTORY 7-12 CERTIFICATION

*This certificate is offered through the College of Education (COE) with the degree being offered through the College of Human Sciences and Humanities (HSH). Please refer to HSH's portion of the catalog (p. 224) for additional information regarding its degrees.*

## Degree Requirements

### University Core Requirements

#### Communications:

WRIT 1301	Composition I
WRIT 1302	Composition II

Equivalent to ENGL 1301 and 1302

### **Mathematics:**

Choose ONE course from the following:

MATH 1314	College Algebra
MATH 1332	Mathematics for Liberal Arts

### **Life and Physical Sciences:**

Choose TWO courses from the core approved list

### **Language, Philosophy and Culture:**

Choose ONE course from the core approved list

### **Creative Arts:**

Choose ONE course from the core approved list

### **U.S. History**

HIST 1301	United States History I
HIST 1302	United States History II

### **Government/Political Science**

POLS 2305	Federal Government
POLS 2306	Texas Government
	Equivalent to GOVT 2305 and 2306

### **Social/Behavior Science**

GEOG 1301	Modern Physical Geography
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### **Component Area Option**

COMM 1315	Public Speaking
	Equivalent to SPCH 1315
PSYC 1100	Learning Frameworks
	Two 1-hr life or physical science labs - required co-requisites for the chosen science courses.

### **College of Human Science and Humanities Core Requirements:**

Choose ONE course from the following list:

WRIT 3304	Writing for Education
WRIT 3307	Advanced Writing

48 hours of upper-level credit must be C or better.

### **Humanities Requirement:**

Choose ONE course from the following list:

PHIL 3331	Ethics
PHIL 3343	Philosophy and Knowledge I
PHIL 4314	The Great Philosophers I
PHIL 4315	The Great Philosophers II

### **College of Education Core Requirements:**

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism
SPED 2301	Introduction to Special Populations
	Equivalent to EDUC 2301
SPED 4300	Survey of Exceptionalities
TCED 1301	Exploring Teaching as a Profession
	Equivalent to EDUC 1301

### **Major Requirements:**

HIST 2301 (p. 353) Texas History

HIST 2321 (p. 353) World Civilization I

HIST 2322 (p. 353) World Civilization II

HIST 3316 (p. 354) Historical Studies

Choose TWO European History Courses (3000/4000 level)  
 Choose THREE American History Courses (3000/4000 level)  
 Choose ONE Latin American History Course (3000/4000 level)  
 Choose ONE Middle Eastern History Course (3300/4300 level)  
 Choose ONE History Elective (3300/4300 level)  
 ECON 2301 (p. 341) Principles of Macroeconomics

### **Pedagogy Requirements:**

TCED 4361	Methods in Secondary Social Studies
TCED 4378	Pre-Service Internship I
TCED 4978	Pre-Service Internship II/Student Teaching

GPA of 2.500 or higher required in HIST and LLS 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.

## **GEOGRAPHY B.S. WITH SOCIAL STUDIES 7-12 CERTIFICATION**

*This certificate is offered through the College of Education (COE) with the degree being offered through the College of Human Sciences and Humanities (HSH). Please refer to HSH's portion of the catalog (p. 250) for additional information regarding its degrees.*

### **Degree Requirements**

#### **University Core Requirements**

##### **Communications:**

WRIT 1301	Composition I
WRIT 1302	Composition II
	Equivalent to ENGL 1301 and 1302

##### **Mathematics:**

Choose ONE course from the following:

MATH 1314	College Algebra
MATH 1332	Mathematics for Liberal Arts

##### **Life and Physical Sciences:**

Choose TWO courses from the core approved list

##### **Language, Philosophy and Culture:**

Choose ONE course from the core approved list

##### **Creative Arts:**

Choose ONE course from the core approved list

##### **U.S. History**

HIST 1301	United States History I
HIST 1302	United States History II

##### **Government/Political Science**

POLS 2305	Federal Government
POLS 2306	Texas Government
	Equivalent to GOVT 2305 and 2306

##### **Social/Behavior Science**

Choose ONE course from the core approved list

ECON 2301	Principles of Macroeconomics
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ECON 2302 Principles of Microeconomics

### Component Area Option

COMM 1315 Public Speaking  
Equivalent to SPCH 1315  
PSYC 1100 Learning Frameworks  
Two 1-hr life or physical science labs - required co-requisites for the chosen science courses.

### College of Human Science and Humanities Core Requirements:

Choose ONE course from the following:

WRIT 3304 Writing for Education  
WRIT 3307 Advanced Writing

48 hours of upper-level credit must be C or better.

### Human Science Requirement:

Choose ONE course from the following list:

Any 3000/4300-level course chosen from ARTS, COMM, HIST, HUMN, LITR, PHIL, or WRIT

### College of Education Core Requirements:

EDUC 4310 Theories of Educational Psychology  
INST 3313 Survey of Instructional Technologies  
SILC 4315 Theories of American Pluralism  
SPED 2301 Introduction to Special Populations  
Equivalent to EDUC 2301  
SPED 4300 Survey of Exceptionalities  
TCED 1301 Exploring Teaching as a Profession  
Equivalent to EDUC 1301

### Major Requirements:

GEOG 1301 Modern Physical Geography  
GEOG 1303 World Regional Geography  
GEOG 4300 Geography of the United States and Canada  
GEOG 4301 Urban Geography  
GEOG 4302 Geography of Latin America  
GEOG 4303 Geography of Texas  
GEOG 4312 Human Geography  
GEOG 4314 Teaching Geography  
GEOG 4317 Introduction to Globalization  
GEOG 4321 Fundamentals of Geographic Information Systems  
HIST 2301 Texas History  
Two History Electives  
LLS 4351 Reading in Content Subjects  
TCED 4102 Secondary (4-8 & 7-12) Content Teacher Seminar  
TCED 4306 Creating Positive Learning Environments in 7-12

### Pedagogy Requirements:

TCED 4361 Methods in Secondary Social Studies  
TCED 4378 Pre-Service Internship I  
TCED 4978 Pre-Service Internship II/Student Teaching

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.

## HISTORY B.A. WITH SOCIAL STUDIES 7-12 CERTIFICATION

*This certificate is offered through the College of Education (COE) with the degree being offered through the College of Human Sciences and Humanities (HSH). Please refer to HSH's portion of the catalog (p. 226) for additional information regarding its degrees.*

Check prerequisites before enrolling in any courses.

## Degree Requirements

### University Core Requirements

#### Communications:

WRIT 1301	Composition I
WRIT 1302	Composition II
	Equivalent to ENGL 1301 and 1302

#### Mathematics:

Choose ONE course from the following:

MATH 1314	College Algebra
MATH 1332	Mathematics for Liberal Arts

#### Life and Physical Sciences:

Choose TWO courses from the core approved list

#### Language, Philosophy and Culture:

Choose ONE course from the core approved list

#### Creative Arts:

Choose ONE course from the core approved list

#### U.S. History

HIST 1301	United States History I
HIST 1302	United States History II

#### Government/Political Science

POLS 2305	Federal Government
POLS 2306	Texas Government
	Equivalent to GOVT 2305 and 2306

#### Social/Behavior Science

GEOG 1303	World Regional Geography
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#### Component Area Option

COMM 1315	Public Speaking
	Equivalent to SPCH 1315
PSYC 1100	Learning Frameworks
	Two 1-hr life or physical science labs - required co-requisites for the chosen science courses.

### College of Human Science and Humanities Core Requirements:

Choose ONE course from the following list:

WRIT 3304	Writing for Education
WRIT 3307	Advanced Writing

48 hours of upper-level credit must be C or better.

#### Humanities Requirement:

Choose ONE course from the following list:

PHIL 3331	Ethics
PHIL 3343	Philosophy and Knowledge I
PHIL 4314	The Great Philosophers I
PHIL 4315	The Great Philosophers II

### College of Education Core Requirements:

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism
SPED 2301	Introduction to Special Populations
	Equivalent to EDUC 2301
SPED 4300	Survey of Exceptionalities
TCED 1301	Exploring Teaching as a Profession
	Equivalent to EDUC 1301

**Major Requirements:**

HIST 2301 (p. 353) Texas History

HIST 2321 (p. 353) World Civilization I

HIST 2322 (p. 353) World Civilization II

HIST 3301 (p. 353) Ancient World

HIST 3316 (p. 354) Historical Studies

Choose TWO European History Courses (3000/4000 level)

Choose THREE American History Courses (3000/4000 level)

Choose ONE Latin American History Course (3000/4000 level)

Choose ONE Middle Eastern History Course (3000/4000 level)

ECON 2301 (p. 341) Principles of Macroeconomics

LLS 4351

Reading in Content Subjects

TCED 4102

Secondary (4-8 & 7-12) Content Teacher Seminar

TCED 4306

Creating Positive Learning Environments in 7-12

**Pedagogy Requirements:**

TCED 4361

Methods in Secondary Social Studies

TCED 4378

Pre-Service Internship I

TCED 4978

Pre-Service Internship II/Student Teaching

GPA of 2.500 or higher required in HIST and LLS 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.

## **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.

**Degree Requirements****University Core Requirements****Communications:**

WRIT 1301

Composition I

WRIT 1302

Composition II

Equivalent to ENGL 1301 and 1302

**Mathematics:**

MATH 1314

College Algebra

**Life and Physical Sciences:**

BIOL 1306

Biology for Science Majors I

Equivalent to BIOL 1406

BIOL 1307

Biology for Science Majors II

Equivalent to BIOL 1407

**Language, Philosophy and Culture:**

Choose ONE course from the core approved list

**Creative Arts:**

Choose ONE course from the core approved list

**U.S. History**

HIST 1301	United States History I
HIST 1302	United States History II

**Government/Political Science**

POLS 2305	Federal Government
POLS 2306	Texas Government
	Equivalent to GOVT 2305 and 2306

**Social/Behavior Science**

Choose ONE course from the core approved list

**Component Area Option**

COMM 1315	Public Speaking
	Equivalent to SPCH 1315
PSYC 1100	Learning Frameworks
BIOL 1106	Laboratory for Biology for Science Majors I
BIOL 1107	Laboratory for Biology for Science Majors II

**College of Education Core Requirements:**

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism
SPED 2301	Introduction to Special Populations
	Equivalent to EDUC 2301
SPED 4300	Survey of Exceptionalities
TCED 1301	Exploring Teaching as a Profession
	Equivalent to EDUC 1301

**Major Requirements:**

LLLS 4351	Reading in Content Subjects
STAT 3308	Computational Statistics
TCED 4102	Secondary (4-8 & 7-12) Content Teacher Seminar
TCED 4306	Creating Positive Learning Environments in 7-12
WRIT 3315	Advanced Technical Writing

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
BIOL 3141	Laboratory for Molecular Genetics
BIOL 2321	Microbiology for Science Majors
BIOL 2121	Laboratory for Microbiology for Science Majors
CHEM 1311	General Chemistry I
	Equivalent to CHEM 1411
CHEM 1111	Laboratory for General Chemistry I
CHEM 1312	General Chemistry II
	Equivalent to CHEM 1412
CHEM 1112	Laboratory for General Chemistry II
CHEM 2323	Organic Chemistry I
	Equivalent to CHEM 2423
CHEM 2123	Laboratory for Organic Chemistry I

Choose ONE course from the following 2 choices:

BIOL 3307	Cell Biology
BIOL 4341	Biochemistry I

Choose ONE course from the following 3 choices:

BIOL 4343	Plant Physiology
BIOL 4344	Comparative Animal Physiology
BIOL 4345	Human Physiology

Choose ONE course from the following 3 choices:

BIOL 3311	Marine Biology
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BIOL 3333	Environmental Biology
BIOL 4305	Ecology of the Amazon

Choose ONE course from the following 2 choices:

BIOL 3335	Epidemiology
BIOL 4311	Ecology

Choose ONE course combination from the following 3 choices with required labs:

BIOL 3313	Plant Anatomy
	And
BIOL 3113	Laboratory for Plant Anatomy
BIOL 3373	Human Anatomy
	And
BIOL 3173	Laboratory for Human Anatomy
BIOL 4313	Biology of Fishes
	And
BIOL 4113	Laboratory for Biology of Fishes

### **Pedagogy Requirements:**

TCED 4362	Methods in Secondary Science
TCED 4378	Pre-Service Internship I
TCED 4978	Pre-Service Internship II/Student Teaching

GPA of 2.500 or higher required in Natural Science coursework (excluding TCED 4304 and TCED 4100).

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.

## **MATHEMATICS B.A. WITH MATHEMATICS 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 (p. 273) for additional information regarding its degrees.*

### **Degree Requirements**

#### **University Core Requirements**

#### **Communications:**

WRIT 1301	Composition I
WRIT 1302	Composition II
	Equivalent to ENGL 1301 and 1302

#### **Mathematics:**

MATH 2413	Calculus I
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#### **Life and Physical Sciences:**

Choose TWO courses from the core approved list

#### **Language, Philosophy and Culture:**

Choose ONE course from the core approved list

#### **Creative Arts:**

Choose ONE course from the core approved list

#### **U.S. History**

HIST 1301	United States History I
HIST 1302	United States History II

#### **Government/Political Science**

POLS 2305	Federal Government
POLS 2306	Texas Government
	Equivalent to GOVT 2305 and 2306

### Social/Behavior Science

Choose ONE course from the core approved list

### Component Area Option

COMM 1315	Public Speaking Equivalent to SPCH 1315
PSYC 1100	Learning Frameworks Two 1-hr life or physical science labs - required co-requisites for the chosen science courses.

### College of Education Core Requirements:

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism
SPED 2301	Introduction to Special Populations Equivalent to EDUC 2301
SPED 4300	Survey of Exceptionalities
TCED 1301	Exploring Teaching as a Profession Equivalent to EDUC 1301

### Major Requirements:

MATH 2318	Linear Algebra
MATH 2320	Differential Equations
MATH 2414	Calculus II
MATH 3300	Introduction to Modern Algebra and Number Theory
MATH 3304	Algebra Through Technology
MATH 3305	Euclidian and Non-Euclidian Geometry
MATH 3312	Number Theory
MATH 4344	Introduction to Probability
LLS 4351	Reading in Content Subjects
WRIT 3315	Advanced Technical Writing
TCED 4102	Secondary (4-8 & 7-12) Content Teacher Seminar
TCED 4306	Creating Positive Learning Environments in 7-12

Choose ONE Natural Science Elective, in addition to the University Core science (3 hours from:

ASTR, BIOL, CHEM, ENSC, GEOL or PHYS)

Choose FOUR courses from the following list of 8 choices:

MATH 2315	Calculus III
MATH 3301	History of Mathematical Sciences
MATH 4315	Numerical Analysis and its Applications
MATH 4316	Mathematic Software Applications
MATH 4321	Predicate Logic
MATH 4322	Introduction to Abstract Algebra
MATH 4325	Theory of Models and Applications
MATH 4345	Introduction to Statistics

### Pedagogy Requirements:

TCED 4363	Methods in Secondary Mathematics
TCED 4378	Pre-Service Internship I
TCED 4978	Pre-Service Internship II/Student Teaching

All courses outside the University Core must be C- or better.

Check prerequisites before enrolling in any courses.

## MATHEMATICS B.S. WITH MATHEMATICS 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 (p. 273) for additional information regarding its degrees.*

## Degree Requirements

### University Core Requirements

#### Communications:

WRIT 1301	Composition I
WRIT 1302	Composition II
	Equivalent to ENGL 1301 and 1302

#### Mathematics:

MATH 2413	Calculus I
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#### Life and Physical Sciences:

Choose TWO courses from the core approved list

#### Language, Philosophy and Culture:

Choose ONE course from the core approved list

#### Creative Arts:

Choose ONE course from the core approved list

#### U.S. History

HIST 1301	United States History I
HIST 1302	United States History II

#### Government/Political Science

POLS 2305	Federal Government
POLS 2306	Texas Government
	Equivalent to GOVT 2305 and 2306

#### Social/Behavior Science

Choose ONE course from the core approved list

#### Component Area Option

COMM 1315	Public Speaking
	Equivalent to SPCH 1315
PSYC 1100	Learning Frameworks
	Two 1-hr life or physical science labs - required co-requisites for the chosen science courses.

#### College of Education Core Requirements:

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism
SPED 2301	Introduction to Special Populations
	Equivalent to EDUC 2301
SPED 4300	Survey of Exceptionalities
TCED 1301	Exploring Teaching as a Profession
	Equivalent to EDUC 1301

#### Major Requirements:

LLS 4351	Reading in Content Subjects
MATH 2315	Calculus III
MATH 2318	Linear Algebra
MATH 2320	Differential Equations
MATH 2414	Calculus II
MATH 3304	Algebra Through Technology
MATH 3305	Euclidian and Non-Euclidian Geometry
MATH 3331	Advanced Calculus
MATH 4344	Introduction to Probability
TCED 4102	Secondary (4-8 & 7-12) Content Teacher Seminar
TCED 4306	Creating Positive Learning Environments in 7-12
WRIT 3315	Advanced Technical Writing

Choose ONE course from the following 2 choices:

MATH 4322	Introduction to Abstract Algebra
MATH 4345	Introduction to Statistics

Choose FOUR courses from the following list of 9 choices:

MATH 3312	Number Theory
MATH 4313	Introduction to Topology
MATH 4315	Numerical Analysis and its Applications
MATH 4316	Mathematic Software Applications
MATH 4321	Predicate Logic
MATH 4322	Introduction to Abstract Algebra
MATH 4325	Theory of Models and Applications
MATH 4341	Introduction to Analysis
MATH 4363	Functions of a Complex Variable

### **Pedagogy Requirements:**

TCED 4363	Methods in Secondary Mathematics
TCED 4378	Pre-Service Internship I
TCED 4978	Pre-Service Internship II/Student Teaching

All courses outside the University Core must be C- or better.

Check prerequisites before enrolling in any courses.

## **DEGREE AND EC-12 TEACHER CERTIFICATION REQUIREMENTS**

The following EC-12 plan is offered at University of Houston–Clear Lake (UHCL). Please check with the Office of Academic Advising for the most recent list of certification plans.

### **College of Human Sciences and Humanities (HSH):**

- EC-12 Art
- EC-12 Physical Education

## **ART AND DESIGN AND VISUAL ARTS B.F.A. WITH ART EC-12 CERTIFICATION**

### **Degree Requirements**

#### **University Core Requirements**

#### **Communications:**

WRIT 1301	Composition I
WRIT 1302	Composition II
	Equivalent to ENGL 1301 and 1302

#### **Mathematics:**

Choose ONE course from the following:

MATH 1314	College Algebra
MATH 1332	Mathematics for Liberal Arts

#### **Life and Physical Sciences:**

Choose TWO courses from the core approved list

#### **Language, Philosophy and Culture:**

Choose ONE course from the core approved list

#### **Creative Arts:**

ARTS 1303	World Art Survey I
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**U.S. History**

HIST 1301	United States History I
HIST 1302	United States History II

**Government/Political Science**

POLS 2305	Federal Government
POLS 2306	Texas Government
	Equivalent to GOVT 2305 and 2306

**Social/Behavior Science**

Choose ONE course from the core approved list

**Component Area Option**

COMM 1315	Public Speaking
	Equivalent to SPCH 1315
PSYC 1100	Learning Frameworks
	Two 1-hr life or physical science labs - required co-requisites for the chosen science courses.

**College of Human Science and Humanities Core Requirements:**

Choose ONE course from the following list:

WRIT 3304	Writing for Education
WRIT 3307	Advanced Writing

48 hours of upper-level credit must be C or better.

**Humanities Requirement:**

Choose ONE course from the following list:

HUMN 3375	Ideas in Transition
PHIL 4314	The Great Philosophers I
PHIL 4315	The Great Philosophers II
ARTS 43XX	4300-Level Art History Elective

**College of Education Core Requirements:**

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism
SPED 2301	Introduction to Special Populations
	Equivalent to EDUC 2301
SPED 4300	Survey of Exceptionalities
TCED 1301	Exploring Teaching as a Profession
	Equivalent to EDUC 1301

**Major Requirements:**

ARTS 1304	World Art Survey II
ARTS 1311	Design Foundations
ARTS 1316	Drawing Foundations
ARTS 3352	Traditional Photography
ARTS 2371	Digital Photography
ARTS 3310	Sculpture
ARTS 3320	Ceramics
ARTS 3331	Intermediate Drawing
ARTS 3335	Intermediate Painting
ARTS 3340	Printmaking
ARTS 3360	Graphic Design
ARTS 4302	Crafts Design
ARTS 43XX	ARTS 4300-level Studio Art Elective
LLS 4351	Reading in Content Subjects
TCED 4102	Secondary (4-8 & 7-12) Content Teacher Seminar

**Pedagogy Requirements:**

ARTS 4300	Methods in Elementary Art Education
ARTS 4301	Methods in Secondary Art Education
TCED 4378	Pre-Service Internship I
TCED 4978	Pre-Service Internship II/Student Teaching

GPA of 2.500 or higher required in ARTS and LLS 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.

## **FITNESS AND HUMAN PERFORMANCE B.S. WITH PHYSICAL EDUCATION EC-12 CERTIFICATION**

### **Degree Requirements**

#### **University Core Requirements**

##### **Communications:**

WRIT 1301	Composition I
WRIT 1302	Composition II
	Equivalent to ENGL 1301 and 1302

##### **Mathematics:**

MATH 1314	College Algebra
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##### **Life and Physical Sciences:**

BIOL 1306	Biology for Science Majors I
BIOL 1307	Biology for Science Majors II

##### **Language, Philosophy and Culture:**

Choose ONE course from the core approved list

##### **Creative Arts:**

Choose ONE course from the core approved list

##### **U.S. History**

HIST 1301	United States History I
HIST 1302	United States History II

##### **Government/Political Science**

POLS 2305	Federal Government
POLS 2306	Texas Government
	Equivalent to GOVT 2305 and 2306

##### **Social/Behavior Science**

Choose ONE course from the following list:

ECON 2301	Principles of Macroeconomics
ECON 2302	Principles of Microeconomics

##### **Component Area Option**

COMM 1315	Public Speaking
	Equivalent to SPCH 1315
PSYC 1100	Learning Frameworks
	Two 1-hr life or physical science labs - required co-requisites for the chosen science courses.

##### **College of Human Science and Humanities Core Requirements:**

Choose ONE course from the following list:

WRIT 3304	Writing for Education
WRIT 3307	Advanced Writing

48 hours of upper-level credit must be C or better.

##### **Humanities Requirement:**

Choose ONE course from the following list:

ANTH 3362	Medicine, Bodies, and Culture
GEOG 4301	Urban Geography
SOCI 4358	Family and Society

**College of Education Core Requirements:**

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism
SPED 2301	Introduction to Special Populations Equivalent to EDUC 2301
SPED 4300	Survey of Exceptionalities
TCED 1301	Exploring Teaching as a Profession Equivalent to EDUC 1301

**Major Requirements:**

HLTH 2110	Team Games and Sports
HLTH 2113	Individual Games and Sports
HLTH 2115	Innovative Games and Sports
HLTH 3301	Health, Emergency Care and First Aid
HLTH 3317	Motor Development and Learning
HLTH 4301	Physiology of Exercise
HLTH 4302	Biomechanics
HLTH 4305	Seminar in Sports Medicine
HLTH 4307	Peak Performance
HLTH 4308	Resistive Exercise: Theory and Practice
HLTH 4370	Undergraduate Practicum
LLS 4351	Reading in Content Subjects
TCED 4102	Secondary (4-8 & 7-12) Content Teacher Seminar

**Pedagogy Requirements:**

HLTH 4311	Methods in Physical Education I
HLTH 4312	Methods in Physical Education II
TCED 4378	Pre-Service Internship I
TCED 4978	Pre-Service Internship II/Student Teaching

GPA of 2.500 or higher required in HLTH and LLS 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.

Students following this plan must have successfully completed either HLTH 4311 or HLTH 4312 prior to enrolling in TCED 4631 or TCED 4632.

Students following this plan must enroll in either HLTH 4311 or HLTH 4312 concurrently with SPED 4312.

Students who choose Special Education as their second teaching field will NOT be certified to teach adaptive physical education.

**2nd Teaching Field (15 hours)**

Students pursuing teacher certification in physical education must also choose a second teaching field.

**Social Studies 7-12**

HIST 2301	Texas History
GEOG 4314	Teaching Geography
TCED 4361	Methods in Secondary Social Studies

**Choose 1 of:**

HIST 3325	Colonial America
HIST 3330	Civil War and Reconstruction
HIST 3337	U.S. Since 1945
HIST 4313	Studies in U.S. History

**Choose 1 of:**

GEOG 4300	Geography of the United States and Canada
GEOG 4303	Geography of Texas
GEOG 4312	Human Geography

GEOG 4317 Introduction to Globalization

### **Special Education EC-12**

SPED 4311	Assessment in Special Education
SPED 4312	Diagnostic Instruction for Learners With Special Needs
SPED 4313	Individualizing Instruction for Students With Disabilities
SPED 4321	Implementing Positive Behavior Supports
SPED 4332	Early Childhood Special Education

### **Life Science 7-12**

BIOL 3141	Laboratory for Molecular Genetics
BIOL 3341	Molecular Genetics
CHEM 1111	Laboratory for General Chemistry I
CHEM 1112	Laboratory for General Chemistry II
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II
TCED 4362	Methods in Secondary Science

## **PLANS WITHOUT TEACHER CERTIFICATION**

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 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.

## **INTERDISCIPLINARY STUDIES B.A.S. WITH A MAJOR IN EARLY CHILDHOOD EDUCATION – EDUCATOR OF YOUNG CHILDREN TRACK**

### **Degree Requirements**

#### **University Core Requirements**

##### **Communications:**

WRIT 1301	Composition I
WRIT 1302	Composition II
	Equivalent to ENGL 1301 and 1302

##### **Mathematics:**

Choose ONE course from the core approved list

##### **Life and Physical Sciences:**

Choose TWO courses from the core approved list

##### **Language, Philosophy and Culture:**

Choose ONE course from the core approved list

##### **Creative Arts:**

Choose ONE course from the core approved list



**U.S. History**

HIST 1301	United States History I
HIST 1302	United States History II

**Government/Political Science**

POLS 2305	Federal Government
POLS 2306	Texas Government
	Equivalent to GOVT 2305 and 2306

**Social/Behavior Science**

Choose ONE course from the core approved list

**Component Area Option**

COMM 1315	Public Speaking Equivalent to SPCH 1315
PSYC 1100	Learning Frameworks Two 1-hr life or physical science labs - required co-requisites for the chosen science courses.

**Transfer Technical/Vocational Requirements:**

Early Childhood/Child Development Elective  
 Early Childhood/Child Development Elective  
 Early Childhood/Child Development Elective  
 Early Childhood/Child Development Elective  
 Early Childhood/Child Development Elective

**Major Requirements:**

ECED 1303	Children and Families Equivalent to TECA 1303
ECED 1318	Nutrition, Health and Safety Equivalent to TECA 1318
ECED 1354	Developmental Theories of Young Children Equivalent to TECA 1354
ECED 4303	Child Guidance & Classroom Management for Young Children
ECED 4305	Literacy Development Birth-Age 5
ECED 4306	Assessment of Young Children Birth-Age 5
ECED 4307	Mathematics and Science in Early Childhood Education Equivalent to CDEC 2307
ECED 4308	Creativity in Early Childhood
ECED 4309	Advocacy and Parent Engagement
ECED 4320	Play
ECED 4321	Infants and Toddlers
ECED 4322	Cultural Awareness for Young Children
ECED 4323	Preschool Curriculum
ECED 4326	Effective and Positive Classroom Interactions for Young Children
ECED 4332	Early Childhood Special Education
ECED 4377	Practicum

**Choose ONE course from the following**

WRIT 3304	Writing for Education
WRIT 3307	Advanced Writing

**Electives:****Choose FOUR course from the following:**

ECED 1311	Historical and Recent Trends in Early Childhood Education Equivalent to TECA 1311
ECED 4324	Early Childhood Leadership and Program Quality
ECED 4325	Early Childhood Program Development
ECED 4333	Advanced Early Childhood Special Education
INST 3313	Survey of Instructional Technologies
LLS 4348	Selecting Literature for the Very Young Child
SILC 4315	Theories of American Pluralism

Check prerequisites before enrolling in any courses.

## ADMISSION TO THE TEACHER EDUCATION PROGRAM (TEP)

In order to enroll in professional development coursework, students must be formally admitted to the Teacher Education Program (TEP). For admission to the College of Education (COE) TEP is contingent on the following:

1. Meeting Basic Skills in Reading, Mathematics and Writing by completing one of the following:
  - a. Baccalaureate degree - or higher awarded by a regionally accredited U.S. institution of higher education.
  - b. Core Complete - completed the requirements of the Texas General Education Core Curriculum.
  - c. ACT college readiness scores - (within 5 years) Composite score: 23 minimum, English: 19 minimum, Math: 19 minimum.
  - d. SAT - (within 5 years) Cumulative score on Verbal/Math: 1070 minimum, Verbal: 500 minimum, Math: 500 minimum. Note: Verbal & Math must be from the same test date.
  - e. STAAR End of Course exams - (within 3 years) English III Reading score ("Postsecondary Readiness Performance Standard" is met), English III Writing score ("Postsecondary Readiness Performance Standard" is met), Algebra II score ("Postsecondary Readiness Performance Standard" is met).
  - f. TAKS - (within 3 years) English Lang Arts: 2200 minimum, Essay: 3 minimum, Math: 2200 minimum.
2. 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. If undergraduate, achieving a grade of "C-" or better in EDUC 4310, SILC 4315 and INST 3313.
4. Completing a college-level public speaking course with a grade of "C-" or better or submitting a Speech Competency form (students are still required to take a public speaking course to meet the Core requirement) signed by a University of Houston-Clear Lake (UHCL) instructor who has observed the English public speaking skills of the students.
5. Achieving a grade point average (GPA)  $\geq 2.750$  overall or in the last 60 semester credit hours. A GPA will be calculated by the COE after an application is submitted. Candidate must have completed at least 60 hours of courses from the degree plan.
6. Completing a minimum of 12 semester credit hours in the subject-specific content area for the certificate being pursued. This requirement may be waived by achieving a passing score on a Texas Education Agency (TEA)-approved content exam (graduate/post-baccalaureate only). Those pursuing math or science certificate to teach 7 or above must have 15 semester credit hours completed in the content area.
7. Being evaluated for certificate appropriateness by writing a one-page paper describing personal characteristics and previous experiences showing the student as a good candidate for the certification.
8. Verify that you have read and understand the handout, "7 Things to Know Before Becoming a Teacher", at web page [http://prtl.uhcl.edu/portal/page/portal/SOE/Forms/form\\_files/7\\_Things\\_to\\_Know\\_Becoming\\_Teacher.pdf](http://prtl.uhcl.edu/portal/page/portal/SOE/Forms/form_files/7_Things_to_Know_Before_Becoming_Teacher.pdf)
9. Educator candidates who were educated in countries where English is not the native language must demonstrate English proficiency by taking all four parts of the TOEFL-iBT test with a score of 26 on the Speaking portion. No other tests are accepted by TEA. Transcripts must be evaluated course-by-course by a TEA-approved foreign credential service.

10. Receiving formal approval of the application for admission to the TEP. Candidates must "accept" admission to the program.

Upon admission to the TEP, the COE will establish an initial profile for each student with the TEA. Students should receive an e-mail message from 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.

## **ADMISSION TO PRE-SERVICE INTERNSHIPS I AND II FOR UNDERGRADUATE STUDENTS**

TCED 4378, Pre-Service Internship I and TCED 4978, Pre-Service Internship II/Student Teaching II (or TCED 4668, Pre-Service Internship II/Student Teaching II - Generalist) 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/Student Teaching II 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/Student Teaching II semester is restricted to 15. Specific requirements for Pre-Service Internships I and II/Student 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 are not offered in the summer.

Current Internship I candidates do not need to apply for Internship II/Student 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/Student Teaching II.

Informational meetings are held in early September and February 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. The degree and/or certification Candidate Plan of Study (CPS) is the official documentation of requirements.

### ***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. Verification of written and spoken proficiency in English. Evidence of successful completion of speech and composition courses (if the course requires public speaking in English) will satisfy this requirement.
3. Pedagogy courses and LLLS 4344 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. Courses offered before 7:00 p.m. on Wednesdays may not be taken during Internship I, as they may interfere with Internship I course requirements.
4. For those certifications requiring TCED 4323 or 4333, successful completion of MATH 1351 is a prerequisite. See catalog prerequisites for all pedagogy courses.

5. TCED 4100 must be taken prior to consideration for Internship I (TCED 4378).
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/Student 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/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.

Intern I participants must pass all Texas Examinations of Educator Standards (TExES) to be eligible for Internship II/Student Teaching. Scores must be submitted by July 15 for fall Intern II/Student Teaching II participants and January 15 for spring Intern II/Student Teaching II participants.

### ***PRE-SERVICE INTERNSHIP II/STUDENT TEACHING II (TCED 4978 OR TCED 4668)***

Students must meet the following requirements for admission to Pre-Service Internship II:

1. All Texas Examinations of Educator Standards (TExES) exams must be passed to be eligible for Internship II. Scores must be submitted by July 15 for fall intern II participants and by December 15 for spring intern II 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 grade point average (GPA) of 3.000 or better in pedagogy courses, with a "B-" or better in Pre-Service Internship I.
5. A GPA of 2.500 or better in specialization courses with grades of "C-" or better in each.
6. Grades of "C-" or better in all other coursework at University of Houston-Clear Lake (UHCL).
7. Internship II/Student Teaching II should be taken alone in the final semester. No more than six additional semester hours may be taken during Pre-Service Internship II (TCED 4978 and TCED 4668). These additional courses must meet no earlier than 7 p.m., as they may interfere with Internship II/Student Teaching course requirements. See adviser for acceptable coursework.

Students denied admission to Pre-Service Internships I or II may reapply but must do so by stated deadlines for subsequent semesters.

## **UHCL ALTERNATIVE CERTIFICATION PROGRAM FOR EDUCATION AIDES**

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 II 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 will be granted:

1. Meet with your adviser 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 II. The number of semester credit hours of additional coursework required is equivalent to the number of hours associated with Internships I and II (9 or 12). (If TCED 4668 is required, 9 hours of additional coursework must be completed. If 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: SILC 4302, SILC 4300, SILC 4301, SILC 4312, SILC 4313, SPED 4311, SPED 4312, SPED 4313 or SPED 4321.
  - Core Subjects EC-6 with Bilingual Supplemental: 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.
  - Core Subjects EC-6 with Special Education EC-12: SILC 4302, SILC 4310, SILC 4311, SILC 4312 or SILC 4313.
  - All 4-8 certifications: select additional content courses in consultation with an 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.
8. Individual informational meetings are held with Academic Advising and/or with the Office of the Center for 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 II and your intent to enter the ACP program.
11. Submit the "Verification of Educator Experience" form, which is to be completed by your school district's Human 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.

## **MINORS IN THE COLLEGE OF EDUCATION**

### **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 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 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.

TCED 1301 Exploring Teaching as a Profession (p. 406)

TCED 1306 Relational Aspects of Learning (p. 407)

TCED 2302 Questioning Strategies to Promote Learning (p. 407)

TCED 3302 Instructional Practices in Education (p. 407)

TCED 3304 Social Justice and Critical Issues in Education (p. 407)

TCED 4302 Inquiry Processes and Problem Solving Skills in Education (p. 407)

TCED 4308 Assessments and Testing in Schools (p. 408)

### **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. There is only one prerequisite before enrolling in the other four courses. A list of courses for the Minor in INST is as follows.

INST 3313 (p. 362) Survey of Instructional Technology

INST 4355 (p. 363) eLearning

INST 4357 (p. 363) Multimedia for Instruction

INST 4365 (p. 363) Web Development

INST 4391 (p. 363) Special Topics in Instructional Technology

## 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. SPED 2301 and SPED 4300 are to be taken in sequence, that is first and second, since they serve as prerequisites for the other three SPED courses.

SPED 2301 Introduction to Special Populations (p. 401)

SPED 4300 Survey of Exceptionalities (p. 401)

SPED 4311 Assessment in Special Education (p. 401)

SPED 4321 Implementing Positive Behavior Supports (p. 401)

SPED 4332 Early Childhood Special Education (p. 402)

## 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. Choose any five courses from the following options for completing the minor. There are no prerequisites in enrolling in any of the following courses. A Minor in Teacher Education can be obtained with the successful completion of five undergraduate education courses, totaling 15 semester credit hours where at least three courses must be taken at the 3000/4000 level.

ECED 1303 Children and Families (p. 339)

ECED 1311 Historical and Recent Trends in Early Childhood Education (p. 339)

ECED 1318 Nutrition, Health and Safety (p. 339)

ECED 1354 Developmental Theories of Young Children (p. 339)

EDUC 4310 Theories of Educational Psychology (p. 342)

INST 3313 Survey of Instructional Technologies (p. 362)

LLLS 4311 Survey of Reading (p. 373)

SILC 4315 Theories of American Pluralism (p. 395)

SPED 2301 Introduction to Special Populations (p. 401)

SPED 4300 Survey of Exceptionalities (p. 401)

TCED 1301 Exploring Teaching as a Profession (p. 406)

## 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 Plans

1. Core Subjects EC-6 (Early Childhood Concentration)
2. Core Subjects EC-6 (Reading Concentration)
3. Core Subjects EC-6 with Bilingual Supplemental
4. Core Subjects EC-6 with ESL Supplemental
5. Core Subjects EC-6 with Special Education EC-12
6. English Language Arts and Reading 4-8
7. English Language Arts and Reading/Social Studies 4-8
8. Core Subjects 4-8
9. Mathematics 4-8
10. Science 4-8
11. Social Studies 4-8
12. English Language Arts and Reading 7-12
13. History 7-12
14. Life Sciences 7-12
15. Mathematics 7-12
16. Social Studies 7-12 **Notes Regarding the No Child Left Behind (NCLB) Highly Qualified Teacher Requirements:**

To be "Highly Qualified" for employment to teach at the Elementary level (Grades EC-6), teacher candidates must pass a Core Subjects EC-6 or Core Subjects 4-8 Texas Examinations of Educator Standards (TExES) exam. Grade 6 is considered secondary by NCLB and does not require a generalist certificate if teaching only in a content area. Candidates may take a TExES Core Subjects exam after completing an initial certification program. Fully certified teachers may register for the additional TExES as "By Exam Only" at the Educational Testing Service (ETS) test registration Web site. Then they may apply at the State Board for Educator Certification (SBEC)/Texas Education Agency (TEA) Web site as "Certification by Examination" to add the Core Subjects certificate. Contact TEA's NCLB office for further information at 1-512-463-9374 or [http://tea.texas.gov/About\\_TEA/Laws\\_and\\_Rules/NCLB\\_and\\_ESEA/No\\_Child\\_Left\\_Behind\\_and\\_Elementary\\_and\\_Secondary\\_Education\\_Act/](http://tea.texas.gov/About_TEA/Laws_and_Rules/NCLB_and_ESEA/No_Child_Left_Behind_and_Elementary_and_Secondary_Education_Act/). See the section called "Highly Qualified Teachers."

To be "Highly Qualified" for employment with an EC-12 Special Education teaching certificate to teach at the Secondary level (grades 6-12), teachers must also earn a 4-8 Generalist, a 4-8 content-specific or a 7-12 content-specific teaching certification. Fully certified teachers can register for the additional TExES as "By Exam Only." The federal government is now allowing secondary teachers to qualify as "Highly Qualified" by passing an additional content test or possessing an additional academic major, graduate degree or hours of coursework. For information pertinent to a Special Education job within a specific school district, contact TEA's NCLB representative at 1-512-463-9374 or view its Web site at [http://tea.texas.gov/About\\_TEA/Laws\\_and\\_Rules/NCLB\\_and\\_ESEA/No\\_Child\\_Left\\_Behind\\_and\\_Elementary\\_and\\_Secondary\\_Education\\_Act/](http://tea.texas.gov/About_TEA/Laws_and_Rules/NCLB_and_ESEA/No_Child_Left_Behind_and_Elementary_and_Secondary_Education_Act/). See the section called "Highly Qualified Teachers."



## 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:

ECED 1354	Developmental Theories of Young Children
ECED 4302	Developing Competence in Young Children
ECED 4311	Reading Development in Young Children
ECED 4314	Observational/Developmental Assessment of Young Children
TCED 4303	Creating Positive Learning Environments in EC-6

#### College of Education Core Requirements:

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism

#### Pedagogy:

TCED 4321	Social Studies Methods for EC-6
TCED 4322	Science Methods for EC-6
TCED 4323	Mathematics Methods for EC-6
TCED 4378	Pre-Service Internship I
	And
TCED 4978	Pre-Service Internship II/Student Teaching
	Or
TCED 4678	Post-Degree Internship I
	And
TCED 4679	Post-Degree Internship II/Student Teaching

#### Other required courses:

ARTS 2379	Arts and the Child
HLTH 3302	Health and Physical Education - EC-6 Survey
LLS 4344	Reading & Writing for EC-6
LLS 4345	Survey of Children's Literature
SPED 4300	Survey of Exceptionalities
TCED 4100	Core Subjects Teacher Seminar

## POST-BACCALAUREATE TEACHER CERTIFICATION PLAN CORE SUBJECTS EC-6 (READING CONCENTRATION)

Check prerequisites before enrolling in any courses.

### Certificate Plan Requirements

#### Academic Specialization Courses:

LLS 4311	Survey of Reading
LLS 4313	Corrective and Remedial Reading
LLS 4332	Diagnostic and Prescriptive Reading
LLS 4344	Reading & Writing for EC-6
LLS 4345	Survey of Children's Literature
LLS 4379	Practicum in Clinical Reading

#### College of Education Core Requirements:

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism

#### Pedagogy:

TCED 4321	Social Studies Methods for EC-6
TCED 4322	Science Methods for EC-6
TCED 4323	Mathematics Methods for EC-6
TCED 4378	Pre-Service Internship I
	And
TCED 4978	Pre-Service Internship II/Student Teaching

TCED 4678	Or Post-Degree Internship I
TCED 4679	And Post-Degree Internship II/Student Teaching

**Other required courses:**

ARTS 2379	Arts and the Child
HLTH 3302	Health and Physical Education - EC-6 Survey
SPED 4300	Survey of Exceptionalities
TCED 4303	Creating Positive Learning Environments in EC-6
TCED 4100	Core Subjects Teacher Seminar

## 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:**

SILC 4301	Spanish for Bilingual Teachers
SILC 4310	Foundations of Bilingual and ESL Education
SILC 4313	Language Learning
SILC 4316	Bilingual Curriculum in the Content Areas
SILC 4351	Development of Biliteracy

**College of Education Core Requirements:**

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism

**Pedagogy:**

TCED 4321	Social Studies Methods for EC-6
TCED 4322	Science Methods for EC-6
TCED 4323	Mathematics Methods for EC-6
TCED 4378	Pre-Service Internship I
	And
TCED 4978	Pre-Service Internship II/Student Teaching
	Or
TCED 4678	Post-Degree Internship I
	And
TCED 4679	Post-Degree Internship II/Student Teaching

**Other required courses:**

ARTS 2379	Arts and the Child
HLTH 3302	Health and Physical Education - EC-6 Survey
LLS 4344	Reading & Writing for EC-6
SPED 4300	Survey of Exceptionalities
TCED 4100	Core Subjects Teacher Seminar

## POST-BACCALAUREATE TEACHER CERTIFICATION PLAN CORE SUBJECTS EC-6 ESL SUPPLEMENTAL

Check prerequisites before enrolling in any courses.

**Certificate Plan Requirements****Academic Specialization Courses:**

ECED 4311	Reading Development in Young Children
ECED 4314	Observational/Developmental Assessment of Young Children
SILC 4310	Foundations of Bilingual and ESL Education
SILC 4313	Language Learning
SILC 4311	ESL Methods

**Choose one course from:**

SILC 4302	Introduction to the Study of Languages
SILC 4312	Content-Based ESL

**College of Education Core Requirements:**

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism

**Pedagogy:**

TCED 4321	Social Studies Methods for EC-6
TCED 4322	Science Methods for EC-6
TCED 4323	Mathematics Methods for EC-6
TCED 4378	Pre-Service Internship I
	And
TCED 4978	Pre-Service Internship II/Student Teaching
	Or
TCED 4678	Post-Degree Internship I
	And
TCED 4679	Post-Degree Internship II/Student Teaching

**Other required courses:**

ARTS 2379	Arts and the Child
HLTH 3302	Health and Physical Education - EC-6 Survey
LLS 4344	Reading & Writing for EC-6
SPED 4300	Survey of Exceptionalities
TCED 4100	Core Subjects Teacher Seminar

## 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:**

SPED 4311	Assessment in Special Education
SPED 4312	Diagnostic Instruction for Learners With Special Needs
SPED 4313	Individualizing Instruction for Students With Disabilities
SPED 4321	Implementing Positive Behavior Supports
SPED 4332	Early Childhood Special Education

**College of Education Core Requirements:**

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism

**Pedagogy:**

TCED 4321	Social Studies Methods for EC-6
TCED 4322	Science Methods for EC-6
TCED 4323	Mathematics Methods for EC-6
TCED 4378	Pre-Service Internship I
	And
TCED 4978	Pre-Service Internship II/Student Teaching
	Or
TCED 4678	Post-Degree Internship I
	And
TCED 4679	Post-Degree Internship II/Student Teaching

**Other required courses:**

ARTS 2379	Arts and the Child
HLTH 3302	Health and Physical Education - EC-6 Survey
LLS 4344	Reading & Writing for EC-6
LLS 4345	Survey of Children's Literature
TCED 4303	Creating Positive Learning Environments in EC-6
TCED 4100	Core Subjects Teacher Seminar

## 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:

LITR 3361	Shakespeare
LITR 3302	Principles of Composition
LLLS 4311	Survey of Reading
LLLS 4345	Survey of Children's Literature
LLLS 4346	Teaching Language Arts in the 4-8 Classroom
LLLS 4351	Reading in Content Subjects

#### Choose two courses from:

LITR 3334	Mythology
LITR 3371	Creative Writing
LITR 4304	Workshop in Poetics
LITR 4360	Film as Literature
LITR 4301	Literary Theory
LITR 4356	Modern American and British Poetry
LITR 4342	Modern and Contemporary Drama
LITR 4344	The Modern Novel
LITR 4324	Rise and Development of the British Novel
LITR 4358	Contemporary Poetry
LITR 4370	Tragedy
LITR 4371	Comedy
LITR 4362	The Literature of Adolescence
LITR 4364	Women in Literature
LITR 4368	Literature of the Future

#### College of Education Core Requirements:

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism

#### Pedagogy:

TCED 4378	Pre-Service Internship I And
TCED 4978	Pre-Service Internship II/Student Teaching Or
TCED 4678	Post-Degree Internship I And
TCED 4679	Post-Degree Internship II/Student Teaching

#### Other required courses:

SPED 4300	Survey of Exceptionalities
TCED 4102	Secondary (4-8 & 7-12) Content Teacher Seminar
TCED 4304	Creating Positive Learning Environments in 4-8

## 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:

HIST 2301	Texas History
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HIST 3301	Ancient World
LITR 3361	Shakespeare
LITR 3302	Principles of Composition
LLS 4311	Survey of Reading
LLS 4344	Reading & Writing for EC-6
LLS 4351	Reading in Content Subjects

HIST 4035: Course has lower-level equivalent.

### **Choose two courses from:**

GEOG 1303	World Regional Geography
GEOG 4300	Geography of the United States and Canada
GEOG 4312	Human Geography
GEOG 4314	Teaching Geography

### **Choose two courses from:**

LITR 3334	Mythology
LITR 3371	Creative Writing
LITR 4304	Workshop in Poetics
LITR 4360	Film as Literature
LITR 4301	Literary Theory
LITR 4356	Modern American and British Poetry
LITR 4342	Modern and Contemporary Drama
LITR 4344	The Modern Novel
LITR 4324	Rise and Development of the British Novel
LITR 4358	Contemporary Poetry
LITR 4370	Tragedy
LITR 4371	Comedy
LITR 4362	The Literature of Adolescence
LITR 4364	Women in Literature
LITR 4368	Literature of the Future

### **College of Education Core Requirements:**

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism

### **Pedagogy:**

TCED 4331	Social Studies Methods for Grades 4-8
TCED 4378	Pre-Service Internship I
	And
TCED 4978	Pre-Service Internship II/Student Teaching
	Or
TCED 4678	Post-Degree Internship I
	And
TCED 4679	Post-Degree Internship II/Student Teaching

### **Other required courses:**

SPED 4300	Survey of Exceptionalities
TCED 4102	Secondary (4-8 & 7-12) Content Teacher Seminar
TCED 4304	Creating Positive Learning Environments in 4-8

## **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:**

LITR 3361	Shakespeare
LLS 4345	Survey of Children's Literature
LLS 4351	Reading in Content Subjects

**Choose one course from:**

LITR 3302	Principles of Composition
WRIT 3304	Writing for Education
WRIT 3307	Advanced Writing

**Choose one course from:**

GEOG 1303	World Regional Geography
GEOG 4300	Geography of the United States and Canada
GEOG 4302	Geography of Latin America
GEOG 4303	Geography of Texas
GEOG 4314	Teaching Geography

**Choose one course from:**

HIST 2301	Texas History
HIST 3301	Ancient World
HIST 3307	Medieval Europe
HIST 3309	Renaissance and Reformation
HIST 4311	Studies in Native American History
HIST 3325	Colonial America
HIST 3327	The New American Nation
HIST 3329	Antebellum America
HIST 3330	Civil War and Reconstruction
HIST 4309	Studies in Latin American History
HIST 3319	Colonial Latin America
HIST 3321	Modern Latin America
HIST 3323	History of Mexico
HIST 4325	Studies in Middle Eastern History

Nine hours of upper-level courses required, one course from each of the following areas: Biology, Earth Science and Physics/Chemistry/Astronomy.

**College of Education Core Requirements:**

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism

**Pedagogy:**

TCED 4331	Social Studies Methods for Grades 4-8
TCED 4332	Science Methods for Grades 4-8
TCED 4333	Mathematics Methods for Grades 4-8
TCED 4378	Pre-Service Internship I
	And
TCED 4978	Pre-Service Internship II/Student Teaching
	Or
TCED 4678	Post-Degree Internship I
	And
TCED 4679	Post-Degree Internship II/Student Teaching

**Other required courses:**

SPED 4300	Survey of Exceptionalities
TCED 4100	Core Subjects Teacher Seminar
TCED 4304	Creating Positive Learning Environments in 4-8

## 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:**

	4 hours of Calculus I
	4 hours of Calculus II
MATH 3304	Algebra Through Technology

MATH 4344 Introduction to Probability

**Choose four courses from:**

MATH 4315 Numerical Analysis and its Applications  
 MATH 4316 Mathematic Software Applications  
 MATH 4321 Predicate Logic  
 MATH 4322 Introduction to Abstract Algebra  
 MATH 4325 Theory of Models and Applications  
 MATH 4345 Introduction to Statistics

**College of Education Core Requirements:**

EDUC 4310 Theories of Educational Psychology  
 INST 3313 Survey of Instructional Technologies  
 SILC 4315 Theories of American Pluralism

**Pedagogy:**

TCED 4333 Mathematics Methods for Grades 4-8  
 TCED 4378 Pre-Service Internship I  
 And  
 TCED 4978 Pre-Service Internship II/Student Teaching  
 Or  
 TCED 4678 Post-Degree Internship I  
 And  
 TCED 4679 Post-Degree Internship II/Student Teaching

**Other required courses:**

LLS 4345 Survey of Children's Literature  
 LLS 4351 Reading in Content Subjects  
 SPED 4300 Survey of Exceptionalities  
 TCED 4102 Secondary (4-8 & 7-12) Content Teacher Seminar  
 TCED 4304 Creating Positive Learning Environments in 4-8

## 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:**

BIOL 1306 Biology for Science Majors I  
 BIOL 1106 Laboratory for Biology for Science Majors I  
 BIOL 1307 Biology for Science Majors II  
 BIOL 1107 Laboratory for Biology for Science Majors II  
 ENSC 1301 Environmental Science I  
 ENSC 1101 Laboratory for Environmental Science I  
 PHYS 1301 College Physics I  
 PHYS 1101 Laboratory for College Physics I  
 GEOL 1303 Physical Geology  
 GEOL 1103 Laboratory for Physical Geology  
 CHEM 1311 General Chemistry I  
 CHEM 1111 Laboratory for General Chemistry I

**College of Education Core Requirements:**

EDUC 4310 Theories of Educational Psychology  
 INST 3313 Survey of Instructional Technologies  
 SILC 4315 Theories of American Pluralism

**Pedagogy:**

TCED 4332 Science Methods for Grades 4-8  
 TCED 4378 Pre-Service Internship I  
 And  
 TCED 4978 Pre-Service Internship II/Student Teaching  
 Or

TCED 4678	Post-Degree Internship I
TCED 4679	And Post-Degree Internship II/Student Teaching

**Other required courses:**

LLS 4345	Survey of Children's Literature
LLS 4351	Reading in Content Subjects
SPED 4300	Survey of Exceptionalities
TCED 4102	Secondary (4-8 & 7-12) Content Teacher Seminar
TCED 4304	Creating Positive Learning Environments in 4-8

## 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:**

GEOG 1302	Global Geography
GEOG 1303	World Regional Geography
GEOG 4300	Geography of the United States and Canada
GEOG 4314	Teaching Geography
HIST 2301	Texas History
HIST 3301	Ancient World

**College of Education Core Requirements:**

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism

**Pedagogy:**

TCED 4331	Social Studies Methods for Grades 4-8
TCED 4378	Pre-Service Internship I
	And
TCED 4978	Pre-Service Internship II/Student Teaching
	Or
TCED 4678	Post-Degree Internship I
	And
TCED 4679	Post-Degree Internship II/Student Teaching

**Other required courses:**

LLS 4345	Survey of Children's Literature
LLS 4351	Reading in Content Subjects
SPED 4300	Survey of Exceptionalities
TCED 4102	Secondary (4-8 & 7-12) Content Teacher Seminar
TCED 4304	Creating Positive Learning Environments in 4-8

## 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:**

LITR 3361	Shakespeare
LITR 3302	Principles of Composition
LLS 4311	Survey of Reading



LLS 4351	Reading in Content Subjects
LLS 4352	Young Adult Literature and Reading

**Choose two courses from:**

LITR 3334	Mythology
LITR 3371	Creative Writing
LITR 4304	Workshop in Poetics
LITR 4360	Film as Literature
LITR 4301	Literary Theory
LITR 4356	Modern American and British Poetry
LITR 4342	Modern and Contemporary Drama
LITR 4344	The Modern Novel
LITR 4324	Rise and Development of the British Novel
LITR 4358	Contemporary Poetry
LITR 4370	Tragedy
LITR 4371	Comedy
LITR 4362	The Literature of Adolescence
LITR 4364	Women in Literature
LITR 4368	Literature of the Future

**College of Education Core Requirements:**

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism

**Pedagogy:**

LLS 4364	Methods in Secondary English/Language Arts
TCED 4378	Pre-Service Internship I
	And
TCED 4978	Pre-Service Internship II/Student Teaching
	Or
TCED 4678	Post-Degree Internship I
	And
TCED 4679	Post-Degree Internship II/Student Teaching

**Other required courses:**

SPED 4300	Survey of Exceptionalities
TCED 4102	Secondary (4-8 & 7-12) Content Teacher Seminar
TCED 4306	Creating Positive Learning Environments in 7-12

## 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:**

GEOG 1303	World Regional Geography
HIST 3325	Colonial America
HIST 3330	Civil War and Reconstruction
HIST 4325	Studies in Middle Eastern History

Choose two courses from History electives. Please see a COE academic adviser.

**College of Education Core Requirements:**

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism

**Pedagogy:**

TCED 4361	Methods in Secondary Social Studies
TCED 4378	Pre-Service Internship I
	And
TCED 4978	Pre-Service Internship II/Student Teaching

TCED 4678	Or Post-Degree Internship I
TCED 4679	And Post-Degree Internship II/Student Teaching

**Other required courses:**

LLS 4311	Survey of Reading
LLS 4351	Reading in Content Subjects
SPED 4300	Survey of Exceptionalities
TCED 4102	Secondary (4-8 & 7-12) Content Teacher Seminar
TCED 4306	Creating Positive Learning Environments in 7-12

## 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:**

BIOL 1306	Biology for Science Majors I
BIOL 1106	Laboratory for Biology for Science Majors I
BIOL 1307	Biology for Science Majors II
BIOL 1107	Laboratory for Biology for Science Majors II
CHEM 1311	General Chemistry I
CHEM 1111	Laboratory for General Chemistry I
CHEM 1312	General Chemistry II
CHEM 1112	Laboratory for General Chemistry II
BIOL 3341	Molecular Genetics
	BIOL Elective
	BIOL Elective

BIOL Elective- Choose one: BIOL 4343, BIOL 4344, or BIOL 4345

BIOL Elective- Choose one: BIOL 3311, BIOL 3333, or BIOL 4305

**Choose one course from:**

BIOL 3333	Environmental Biology
BIOL 4311	Ecology

**Choose one course from:**

BIOL 3306	Development of the Sciences
BIOL 4278	Seminar in Biology

**College of Education Core Requirements:**

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism

**Pedagogy:**

TCED 4362	Methods in Secondary Science
TCED 4378	Pre-Service Internship I
	And
TCED 4978	Pre-Service Internship II/Student Teaching
	Or
TCED 4678	Post-Degree Internship I
	And
TCED 4679	Post-Degree Internship II/Student Teaching

**Other required courses:**

LLS 4311	Survey of Reading
LLS 4351	Reading in Content Subjects
SPED 4300	Survey of Exceptionalities
TCED 4102	Secondary (4-8 & 7-12) Content Teacher Seminar
TCED 4306	Creating Positive Learning Environments in 7-12

## 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:

	4 hours of Calculus I
	4 hours of Calculus II
MATH 3304	Algebra Through Technology
MATH 3305	Euclidian and Non-Euclidian Geometry
MATH 4344	Introduction to Probability

#### Choose five courses from:

MATH 4315	Numerical Analysis and its Applications
MATH 4316	Mathematic Software Applications
MATH 4321	Predicate Logic
MATH 4322	Introduction to Abstract Algebra
MATH 4325	Theory of Models and Applications
MATH 4345	Introduction to Statistics

#### College of Education Core Requirements:

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism

#### Pedagogy:

TCED 4363	Methods in Secondary Mathematics
TCED 4378	Pre-Service Internship I
	And
TCED 4978	Pre-Service Internship II/Student Teaching
	Or
TCED 4678	Post-Degree Internship I
	And
TCED 4679	Post-Degree Internship II/Student Teaching

#### Other required courses:

LLS 4311	Survey of Reading
LLS 4351	Reading in Content Subjects
SPED 4300	Survey of Exceptionalities
TCED 4102	Secondary (4-8 & 7-12) Content Teacher Seminar
TCED 4306	Creating Positive Learning Environments in 7-12

Three hours of scientific programming language (C++, C, Java, Visual BASIC, BASIC, Fortran or Pascal).

## 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:

GEOG 1303	World Regional Geography
GEOG 4312	Human Geography
GEOG 4314	Teaching Geography
HIST 3325	Colonial America
HIST 3330	Civil War and Reconstruction

HIST 4325

Studies in Middle Eastern History

**College of Education Core Requirements:**

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism

**Pedagogy Courses:**

TCED 4361	Methods in Secondary Social Studies
TCED 4378	Pre-Service Internship I And
TCED 4978	Pre-Service Internship II/Student Teaching Or
TCED 4678	Post-Degree Internship I And
TCED 4679	Post-Degree Internship II/Student Teaching

**Other required courses:**

LLS 4311	Survey of Reading
LLS 4351	Reading in Content Subjects
SPED 4300	Survey of Exceptionalities
TCED 4102	Secondary (4-8 & 7-12) Content Teacher Seminar
TCED 4306	Creating Positive Learning Environments in 7-12

**No Child Left Behind (NCLB) Highly Qualified Teacher Requirements**

To be "Highly Qualified" for employment with a Special Education EC-12 teaching certificate to teach at the Elementary level (Grades EC-5), teachers must also earn a Core Subjects EC-6, a Core Subjects 4-8 or a 4-8 content specific teaching certificate. Grade 6 is considered secondary by NCLB and does not require a Core Subjects certificate if teaching only in a content area. The University of Houston-Clear Lake (UHCL) undergraduate program includes the Core Subjects EC-6 certification. Those following a post-degree teacher certification plan will need to earn an additional certification by taking the appropriate Texas Examinations of Educator Standards (TExES) after having completed the UHCL Special Education EC-12 program. Fully certified teachers can register for the additional TExES as "By Exam Only."

To be "Highly Qualified" for employment with a Special Education EC-12 teaching certificate to teach at the Secondary level (Grades 6-12), teachers must also earn a Core Subjects 4-8, a 4-8 content specific teaching certification or a 7-12 content specific. Fully certified teachers can register for the additional TExES as "By Exam Only."

The federal government is allowing secondary teachers to qualify as "Highly Qualified" by passing an additional content test or possessing an additional academic major, graduate degree, or hours of coursework. For information pertinent to a Special Education job within a specific school district, contact the Texas Education Agency's (TEA's) NCLB representative at 1-512-463-9374 or view its Web site [http://tea.texas.gov/About\\_TEA/Laws\\_and\\_Rules/NCLB\\_and\\_ESEA/No\\_Child\\_Left\\_Behind\\_and\\_Elementary\\_and\\_Secondary\\_Education\\_Act/](http://tea.texas.gov/About_TEA/Laws_and_Rules/NCLB_and_ESEA/No_Child_Left_Behind_and_Elementary_and_Secondary_Education_Act/). See the sections called "NCLB Quick Links" and "Highly Qualified Teacher Requirements."

**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 plan section of 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.

## ADMISSION TO PRE-SERVICE INTERNSHIPS I AND II

TCED 4378, Pre-Service Internship I and TCED 4978, Pre-Service Internship II/Student Teaching II and TCED 4668, Pre-Service Internship II/Student Teaching II - Generalist are the capstone experiences for the University of Houston-Clear Lake (UHCL)-approved Teacher Education Program (TEP), and students must enroll in consecutive long semesters (fall/spring or spring/fall) to complete these two experiences. The rules governing TCED 4978 and TCED 4668 are identical. Pre-Service Internship I is every Wednesday of the public school semester. Pre-Service Internship II/Student Teaching II is every day of the public school semester. Enrollment in Pre-Service Internship I should not be considered until almost all courses have been successfully completed, since the number of semester hours in the Pre-Service Internship II/Student Teaching II semester is restricted to 15 hours. Specific requirements for Pre-Service Internships I and II 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 or II are not offered during the summer.

Current Internship I candidates do not need to apply for Internship 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/Student Teaching II.

Informational meetings are held in early September and February 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 courses 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. The degree and/or certification Candidate Plan of Study (CPS) is the official documentation of requirements.

### ***PRE-SERVICE INTERNSHIP I (TCED 4378)***

All students must meet the following requirements for admission to Pre-Service Internship I:

1. Formal admission to Teacher Education Program (TEP) (see above).
2. Verification of written and spoken proficiency in English. Evidence of successful completion of a speech and composition courses (if the course requires public speaking in English) will satisfy this requirement.
3. Pedagogy courses and LLLS 5131/LLLS 4344 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. Courses offered before 7 p.m. on Wednesdays may not be taken during Internship I, as they may interfere with Internship I course requirements.
4. For those certifications requiring TCED 4323 or TCED 4333, successful completion of MATH 1351 is a prerequisite. See catalog prerequisites for all pedagogy courses.
5. TCED 4100 must be taken prior to consideration for Internship I (TCED 4378)
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. Faxes and late applications will not be accepted.
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 provide 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/Student Teaching II during 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.

All Texas Examinations of Educator Standards (TExES) exams must be passed to be eligible for Internship II/Student Teaching II. Scores must be submitted by July 15 for fall Intern II/Student Teaching II participants and January 15 for spring Intern II/Student Teaching II participants.

### ***PRE-SERVICE INTERNSHIP II/STUDENT TEACHING II (TCED 4978 OR TCED 4668)***

Students must meet the following requirements for admission to Pre-Service Internship II:

1. All Texas Examinations of Educator Standards (TExES) exams must be passed to be eligible for Internship II.
2. Successful completion of Pre-Service Internship I (grade of "B-" or better).
3. Successful completion of all field experience courses.
4. A grade point average (GPA) of 3.000 or better in pedagogy courses, with a grade of "B-" or better in Pre-Service Internship I.
5. A GPA of 2.500 or better in specialization courses, with grades of "C-" or better in each.
6. Grades of "C-" or better are required for all other coursework at University of Houston-Clear Lake (UHCL).
7. Ideally, Internship II/Student Teaching II should be taken alone in the final semester. No more than six additional semester hours may be taken during Pre-Service Internship II (TCED 4978 and TCED 4668). These additional courses must meet no earlier than 7 p.m., as they may interfere with Internship II/Student Teaching II course requirements. See an adviser for acceptable coursework.

Students denied admission to Pre-Service Internships I or II may reapply, but they must do so by stated deadlines for subsequent semesters.

## **ADMISSION TO THE TEACHER EDUCATION PROGRAM (TEP) FOR POST-DEGREE TEACHER CERTIFICATION STUDENTS**

In order to enroll in pedagogy coursework, students must be formally admitted to the Teacher Education Program (TEP). Enrollment in the College of Education (COE) TEP is contingent on the following:

1. Meeting Basic Skills in Reading, Mathematics & Writing by completing one of the following:
  - a. Baccalaureate degree - or higher awarded by a regionally accredited U.S. institution of higher education.
  - b. Core Complete - completed the requirements of the Texas General Education Core Curriculum.
  - c. ACT college readiness scores - (within 5 years) Composite score: 23 minimum, English: 19 minimum, Math: 19 minimum.
  - d. SAT - (within 5 years) Cumulative score on Verbal/Math: 1070 minimum, Verbal: 500 minimum, Math: 500 minimum. Note: Verbal & Math must be from the same test date.

- e. STAAR End of Course exams - (within 3 years) English III Reading score ("Postsecondary Readiness Performance Standard" is met), English III Writing score ("Postsecondary Readiness Performance Standard" is met), Algebra II score ("Postsecondary Readiness Performance Standard" is met).
  - f. TAKS - (within 3 years) English Lang Arts: 2200 minimum, Essay: 3 minimum, Math: 2200 minimum.
2. Submitting the TEP application with all required documents to the Office of Educator Certification, in Bayou 1231. This application is online at the UHCL website in the COE Forms and Information Section.
  3. Achieving grades of "C-" or better in prerequisite courses EDUC 4310, SILC 4315 and INST 3313.
  4. Completing a college-level public speaking course with a grade of "C-" or better, or submitting a "Speech Competency" form signed by a University of Houston-Clear Lake (UHCL) instructor who has observed the English public speaking skills of the student.
  5. Achieving a grade point average (GPA) of > 2.750 overall or in the last 60 semester credit hours. A GPA will be calculated by the COE after the application is submitted.
  6. Completing a minimum of 12 semester credit hours in the subject-specific content area for the certificate being pursued. This requirement may be waived by achieving a passing score on a Texas Education Agency (TEA)-approved content exam (graduate/post-baccalaureate only). Those pursuing grade 7 or above Mathematics or Science certification must have 15 semester credit hours completed in the content area.
  7. Being evaluated for certificate appropriateness by completing a written instrument of why the student wants to teach in this area of certification and what makes the student a good candidate.
  8. Verifying that you have read and understand the handout, "7 Things to Know Before Becoming a Teacher" at web page, [http://prtl.uhcl.edu/portal/page/portal/SOE/Forms/form\\_files/7\\_Things\\_to\\_Know\\_Becoming\\_Teacher.pdf](http://prtl.uhcl.edu/portal/page/portal/SOE/Forms/form_files/7_Things_to_Know_Before_Becoming_Teacher.pdf)
  9. Educator candidates who were educated in countries where English is not the native language must demonstrate English proficiency by taking all four parts the TOEFL-iBT test with a score of 26 on the Speaking portion. No other tests are accepted by TEA. Transcripts must be evaluated course-by-course by a TEA-approved foreign credential service.
  10. Receiving formal approval of the application for admission to the TEP. Candidate must "accept" admission to the program.

Upon acceptance to the TEP, the COE will establish an initial profile for each student with the State Board for Educator Certification (SBEC). All educator candidates in Texas are required to open an account upon entering a program. Students will receive an e-mail message from the SBEC 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.

## CONTENT COURSES WAIVED FOR POST-DEGREE TEACHER CERTIFICATES

Post-degree teacher certification students who pass the required Academic Specialization state assessment on the first attempt while approved by University of Houston-Clear Lake (UHCL) may have all of their respective academic specialization coursework waived by UHCL, if they are pursuing one of the following certificates:

1. English Language Arts and Reading 4-8
2. English Language Arts and Reading/Social Studies 4-8
3. Mathematics 4-8

4. Science 4-8
5. Social Studies 4-8
6. English Language Arts and Reading 7-12
7. History 7-12
8. Life Sciences 7-12
9. Mathematics 7-12
10. Social Studies 7-12

Important Points to Know:

- If students do not pass the content area state assessment specified on their plan on the first attempt, then all the academic specialization courses will remain on the plan and must be completed before certification recommendation will be made by UHCL.
- The following teaching certificate programs are NOT included in the course waiver policy: Core Subjects EC-6, Core Subjects EC-6 with Bilingual Supplemental, Core Subjects EC-6 with ESL Supplemental and Core Subjects EC-6 with Special Education EC-12.
- For the 4-8 Core Subjects program only: For each domain (English, Mathematics, Science and Social Studies) passed by students on their first attempt on the 4-8 Core Subjects state assessment, the respective content courses will be waived.



# 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 of Accreditation for Marriage and Family Therapy Education; the Association for Behavioral Analysis International; the Council on Social Work Education; and the Association for Assessment and Accreditation of Laboratory Animal Care International. 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 (p. 203)

- Fitness and Human Performance B.S. (p. 203)
- Registered Nurse to Bachelor of Science in Nursing B.S.N. (p. 209)
- Social Work B.S.W. (p. 211)

Department of Communication and Studio Arts (p. 214)

- Art and Design B.F.A. (p. 215)
- Communication B.A. (p. 220)

Department of Liberal Arts (p. 222)

- History B.A. (p. 222)
- Humanities B.A. (p. 228)
- Literature B.A. (p. 232)

Department of Psychology (p. 238)

- General Psychology B.S. (p. 238)
- Women's Studies B.A. (p. 240)

Department of Social and Cultural Sciences (p. 242)

- Anthropology B.S. (p. 242)
- Behavioral Sciences - General B.S. (p. 245)
- Criminology B.S. (p. 248)
- Geography B.S. (p. 249)
- Public Service Leadership B.S. (p. 252)
- Sociology B.S. (p. 254)

## 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
- Professional Writing
- Women's Studies (p. 241)

## Minors

HSH also offers a variety of minors available to all UHCL students.

- Minor in Africana Studies (p. 257)
- Minor in Anthropology (p. 258)
- Minor in Art and Design (p. 258)
- Minor in Art History (p. 259)
- Minor in Behavior Analysis (p. 259)
- Minor in Exercise Science (p. 260)
- Minor in Geographic Information Systems
- Minor in Geography (p. 260)
- Minor in Health Promotion (p. 261)
- Minor in History (p. 261)
- Minor in Humanities (p. 261)
- Minor in Latina/o and Latin American Studies (p. 262)
- Minor in Literature (p. 263)
- Minor in Middle Eastern Studies (p. 264)
- Minor in Philosophy (p. 265)
- Minor in Public Service Leadership (p. 265)
- Minor in Sociology (p. 265)
- Minor in Youth and Police Studies (p. 266)
- Minor in Writing (p. 266)

## 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 (133 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 their HSH advisers in their 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 Advising Office.

	Office	Phone
Office of Academic Advising	Bayou 1539	281-283-3333
Office of the Dean	Bayou 1529	281-283-3300
Director, Texas Department of Corrections program	Bayou 1617	281-283-3420

For more information about Human Sciences and Humanities, go to <http://www.uhcl.edu/hsh>.

## 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:

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 WMST 4341 Women in Society

PSYC 4308 Introduction to Women's Studies or WMST 4308 Introduction to Women's 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 4324 Oppression, Diversity, and Social Justice

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 4324 Oppression, Diversity, and Social Justice.

## 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. This requirement is fulfilled by passing WRIT 3304 (p. 412), WRIT 3305 (p. 412), WRIT 3306 (p. 412), or WRIT 3307 (p. 412) 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 (p. 412) will exempt students from this requirement.

## MINORS IN HSH

HSH offers minors in the areas listed at the conclusion of the College of Human Sciences and Humanities catalog section. 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.

## 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.

## 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 B.S. (p. 203) degree, a Registered Nurse - Bachelor of Science in Nursing (BSN) (p. 209) degree, and a Bachelor of Social Work (BSW) (p. 211) degree. The BSW 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.

## 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 (42 hours)

#### Communication (6 hours)

WRIT 1301	Composition I
WRIT 1302	Composition II

#### Mathematics (3 hours)

MATH 1314	College Algebra
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#### Life and Physical Science (6 hours)

BIOL 1306	Biology for Science Majors I
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BIOL 1307

Biology for Science Majors II

**Language Philosophy and Culture (3 hours)**

Choose ONE course from the core approved list (p. 109).

**Creative Arts (3 hours)**

Choose ONE course from the core approved list (p. 109).

**U.S. History (6 hours)**

HIST 1301

United States History I

HIST 1302

United States History II

**Government/Political Science (6 hours)**

POLS 2305

Federal Government

POLS 2306

Texas Government

**Social Behavioral Sciences (3 hours)**

Choose 1 of:

PSYC 2301

Introduction to Psychology

ECON 2301

Principles of Macroeconomics

ECON 2302

Principles of Microeconomics

Special Notes

- PSYC 2301 Introduction to Psychology (p. 391) is required for all Pre-Physical Therapy (p. 205), Pre-Occupational Therapy (p. 205), Pre-Physician's Assistant (p. 205), and Pre-Chiropractic Medicine (p. 206) students.
- ECON 2301 Principles of Macroeconomics (p. 341) or ECON 2302 Principles of Microeconomics (p. 341) is required for students obtaining teacher certification.

**Public Speaking (3 hours)**

COMM 1315

Public Speaking

**Additional Coursework (3 hours)**

PSYC 1100

Learning Frameworks

Two 1-hour natural science labs - required co-requisites for the chosen science courses.

**College of Human Sciences and Humanities (6 hours)**

48 hours of upper-level credit must be "C" or better.

**External Department Requirement**

Choose ONE of:

ANTH 3362

Medicine, Bodies, and Culture

GEOG 4301

Urban Geography

SOCI 4358

Family and Society

SOCI 4364

Medical Sociology

**Core Requirements**

WRIT 3306

Writing for the Social Sciences

Or

WRIT 3307

Advanced Writing

**Major Requirements (42 hours)****Fitness and Human Performance Courses**

HLTH 2301

Introduction to Exercise Science

HLTH 3301

Health, Emergency Care and First Aid

HLTH 3303

Nutrition and Weight Management

HLTH 3304

Principles of Physical Fitness

HLTH 3309

Evidence-Based Practice

HLTH 4301

Physiology of Exercise

HLTH 4302

Biomechanics

HLTH 4305

Seminar in Sports Medicine

HLTH 4308

Resistive Exercise: Theory and Practice

HLTH 4370

Undergraduate Practicum

## Concentration Area (up to 24 hours)

Up to 24 hours based on the specific concentration.

### Exercise Science Concentration

BIOL 3173	Laboratory for Human Anatomy
BIOL 3307	Cell Biology
BIOL 3373	Human Anatomy
BIOL 4241	Laboratory for Physiology
BIOL 4341	Biochemistry I
BIOL 4342	Biochemistry II
BIOL 4345	Human Physiology
BIOL 4347	Cellular Physiology
HLTH 3316	Applied Kinesiology
HLTH 3317	Motor Development and Learning
HLTH 4307	Peak Performance
HLTH 4309	Research Practicum
HLTH 4391	Selected Topics in Health
PSYC 4316	Brain and Behavior
PSYC 4370	Behavioral Statistics
PSYC 4371	Research Methods

### Health Promotion Concentration

ANTH 3362	Medicine, Bodies, and Culture
GEOG 4312	Human Geography
HLTH 3315	Health Promotion Programs
HLTH 3318	Introduction to Community Health
HLTH 3320	Health Inequalities
HLTH 4309	Research Practicum
HLTH 4391	Selected Topics in Health
PSYC 3321	Learning
PSYC 3334	Drugs and Behavior
PSYC 4314	Child Psychology
PSYC 4332	Introduction to Industrial/Organizational Psychology
PSYC 4356/SOCI 4356	The Aging Experience
PSYC 4370	Behavioral Statistics
PSYC 4371	Research Methods

### Pre-Physical Therapy Concentration

BIOL 3173	Laboratory for Human Anatomy
BIOL 3373	Human Anatomy
BIOL 4241	Laboratory for Physiology
BIOL 4345	Human Physiology
PSYC 4370	Behavioral Statistics
PSYC 4371	Research Methods

Special Notes for Pre-PT Students:

- A 3.000 GPA must be maintained for admission to UTMB's PT Plan.
- A 3.000 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 pre-requisite course.

### Pre-Occupational Therapy Concentration

BIOL 4345	Human Physiology
BIOL 4241	Laboratory for Physiology
PSYC 4316	Brain and Behavior
PSYC 4351	Abnormal Psychology
PSYC 4370	Behavioral Statistics
SOCI 4322	Theories of Society

### Pre-Physician's Assistant Concentration

BIOL 3173	Laboratory for Human Anatomy
BIOL 3373	Human Anatomy
CHEM 2323	Organic Chemistry I
CHEM 2325	Organic Chemistry II
HLTH 3316	Applied Kinesiology
PSYC 4316	Brain and Behavior

**Pre-Chiropractic Medicine Concentration**

BIOL 3173	Laboratory for Human Anatomy
BIOL 3373	Human Anatomy
CHEM 2323	Organic Chemistry I
CHEM 2325	Organic Chemistry II
HLTH 3316	Applied Kinesiology

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 and Lab
CHEM 1312	General Chemistry II and Lab
PHYS 1301	College Physics I and Lab
PHYS 1302	College Physics II and Lab
SOCI 1301	Introduction to Sociology

CHEM 1312 General Chemistry I (p. 324) and PHYS 1301 College Physics I (p. 386) are highly recommended and may be required depending on the concentration chosen.

HLTH 2303 Personal Health and Fitness (p. 357) is highly recommended as a lower-level elective.

UHCL FHP contacts: Dr. Terry Dupler, 281-283-3389, [dupler@uhcl.edu](mailto:dupler@uhcl.edu); or Dr. William Amonette, 281-283-3381, [amonette@uhcl.edu](mailto:amonette@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 courses. A secondary teaching field in Life Science, Special Education, or Social Studies is required for this concentration.

**University Core (42 hours)****Communication (6 hours)**

WRIT 1301	Composition I
WRIT 1302	Composition II

**Mathematics (3 hours)**

MATH 1314	College Algebra
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**Life and Physical Science (6 hours)**

BIOL 1306	Biology for Science Majors I
BIOL 1307	Biology for Science Majors II

**Language Philosophy and Culture (3 hours)**

Choose ONE course from the core approved list (p. 109).

**Creative Arts (3 hours)**

Choose ONE course from the core approved list (p. 109).

**U.S. History (6 hours)**

HIST 1301	United States History I
HIST 1302	United States History II

**Government/Political Science (6 hours)**

POLS 2305	Federal Government
POLS 2306	Texas Government

## Social Behavioral Sciences (3 hours)

Choose 1 of:

PSYC 2301	Introduction to Psychology
ECON 2301	Principles of Macroeconomics
ECON 2302	Principles of Microeconomics

Special Notes

- ECON 2301 Principles of Macroeconomics (p. 341) or ECON 2302 Principles of Microeconomics (p. 341) is required for students obtaining teacher certification.

## Component Area Option (6 hours)

COMM 1315	Public Speaking
PSYC 1100	Learning Frameworks
	Two 1-hr life or physical science labs - required co-requisites for the chosen science courses.

## College of Human Sciences and Humanities (6 hours)

48 hours of upper-level credit must be "B-" or better.

## Core Requirement (3 hours)

WRIT 3304	Writing for Education
	Or
WRIT 3306	Writing for the Social Sciences
	Or
WRIT 3307	Advanced Writing

## Choose ONE of:

ANTH 3362	Medicine, Bodies, and Culture
GEOG 4301	Urban Geography
SOCI 4358	Family and Society

## College of Education Requirements (22 hours)

### Teacher Education Program (TEP) Admission Requirements

- Completion of 60 semester credit hours.
- Completion of prerequisite coursework (EDUC 4310 Theories of Educational Psychology (p. 342), INST 3313 Survey of Instructional Technologies (p. 362), and SILC 4315 Theories of American Pluralism (p. 395)).
- 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). (p. 177)

## Core Requirement

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
LLS 4351	Reading in Content Subjects
SILC 4315	Theories of American Pluralism
SPED 2301	Introduction to Special Populations
SPED 4300	Survey of Exceptionalities
TCED 1301	Exploring Teaching as a Profession
TCED 4102	Core Subjects Teacher Seminar

## Major Requirements (27 hours)

### Courses

HLTH 2110	Team Games and Sports
HLTH 2113	Individual Games and Sports
HLTH 2115	Innovative Games and Sports



HLTH 3301	Health, Emergency Care and First Aid
HLTH 3317	Motor Development and Learning
HLTH 4301	Physiology of Exercise
HLTH 4302	Biomechanics
HLTH 4305	Seminar in Sports Medicine
HLTH 4307	Peak Performance
HLTH 4308	Resistive Exercise: Theory and Practice
HLTH 4370	Undergraduate Practicum

## Pedagogy Requirements (18 hours)

### Courses

HLTH 4311	Methods in Physical Education I
HLTH 4312	Methods in Physical Education II
TCED 4378	Pre-Service Internship I
TCED 4978	Pre-Service Internship II/Student Teaching

- Enrollment in the courses listed above requires admission to the TEP (p. 177).
- 3.000 GPA required in pedagogy coursework.
- TCED 4378 Pre-Service Internship I (p. 409) must be taken in the long semester immediately preceding the final semester.
- TCED 4978 Pre-Service Internship II (p. 410) must be taken in the final semester.

### Teacher Certification Requirements

- Passing scores on the appropriate state assessments (Texas Examinations of Educator Standards [TExES] (p. 138)) 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
BIOL 3341	Molecular Genetics
CHEM 1111	Laboratory for General Chemistry I
CHEM 1112	Laboratory for General Chemistry II
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II
TCED 4362	Methods in Secondary Science

### Special Education

SPED 4311	Assessment in Special Education
SPED 4312	Diagnostic Instruction for Learners With Special Needs
SPED 4313	Individualizing Instruction for Students With Disabilities
SPED 4321	Implementing Positive Behavior Supports
SPED 4332	Early Childhood Special Education

### Social Sciences

GEOG 4314	Teaching Geography
HIST 2301	Texas History
TCED 4361	Methods in Secondary Social Studies

### Choose ONE of:

GEOG 4300	Geography of the United States and Canada
GEOG 4303	Geography of Texas
GEOG 4312	Human Geography
GEOG 4317	Introduction to Globalization

### Choose ONE of:

HIST 3325	Colonial America
HIST 3330	Civil War and Reconstruction

HIST 3337  
HIST 4313

U.S. Since 1945  
Studies in U.S. History

## REGISTERED NURSE-BACHELOR OF SCIENCE NURSING B.S.N.

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/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 the 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 full-time 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 <http://prtl.uhcl.edu/portal/page/portal/ADM/nursing#requirements>. The typical cohort size is 30 students.

### University Core (42 hours)

#### Communication (6 hours)

WRIT 1301	Composition I
WRIT 1302	Composition II

#### U.S. History (6 hours)

HIST 1301	United States History I
HIST 1302	United States History II

#### Government/Political Science (6 hours)

POLS 2305	Federal Government
POLS 2306	Texas Government

#### Public Speaking (3 hours)

COMM 1315	Public Speaking
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#### Mathematics (3 hours)

MATH 1314	College Algebra Or
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MATH 1332	Mathematics for Liberal Arts
MATH 1342	Or Elementary Statistical Methods

**Life and Physical Science (6 hours)**

BIOL 2301	Anatomy & Physiology I
BIOL 2302	Anatomy & Physiology II

**Social Behavioral Sciences (3 hours)**

PSYC 2301	Introduction to Psychology
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**Additional Coursework (3 hours)**

PSYC 1100	Learning Frameworks
BIOL 2101	Laboratory for Anatomy and Physiology I
BIOL 2102	Laboratory for Anatomy and Physiology II

**Creative Arts (3 hours)**

Choose ONE course from the core approved list (p. 109).

**Language Philosophy and Culture (3 hours)**

Choose ONE course from the core approved list (p. 109).

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**

BIOL 2121	Laboratory for Microbiology for Science Majors
BIOL 2321	Microbiology for Science Majors
PSYC 2314	Lifespan and Growth Development
	RNSG Courses - 26 hours of course work from Associate Degree in Nursing program

**College of Human Sciences and Humanities Requirements**

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 3311	History and Theories of Nursing
NURS 3313	Community Health Nursing
NURS 3314	Trends and Issues in Nursing Practices
NURS 3323	Community Health Nursing Project
NURS 4311	Role Transition
NURS 4312	Legal and Ethical Issues
NURS 4313	Nursing Research
NURS 4314	Advanced Leadership and Management
NURS 4324	Advanced Leadership and Management Practicum
PSYC 4370	Behavioral Statistics

**Electives (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 below.

BIOL 4346	Pathophysiology
HADM 3311	Foundations of Healthcare Administration Leadership
HLTH 3315	Health Promotion Programs
HLTH 3303	Nutrition and Weight Management
PSYC 3315	Psychological Thinking
PSYC 3332	Family Psychology
PSYC 4337/WMST 4337	Violence Against Women
SOCI 4304	Professional Issues in Human Services

SOCI 4308/HUMN 4308/PSYC 4308/WMST 4308	Introduction to Women's Studies
SOCI 4356/PSYC 4356 WRIT 3312	The Aging Experience Written Communications in Business

## SOCIAL WORK B.S.W.

The fully accredited undergraduate plan 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:

1. 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 4301 Introduction to Social Work (p. 405) with a grade of "C" or higher.
6. Completion of SWRK 4304 Issues and Ethics in Social Work (p. 405) with a grade of "C" or higher.
7. Cumulative grade point average of 2.5 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 see BSW program faculty.

Once all prerequisites for admission have been completed, a student may apply for formal admission to the BSW program at two distinct times throughout the academic year (August 1 for fall and December 15 for spring). The application packet must include the following documents and information:

- a. Application cover sheets
- b. An unofficial copy of all college transcripts
- c. 3 letters of recommendation from previous instructors or work supervisors
- d. 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 Advising Office, and through program faculty.

## University Core (42 hours)

### Communication (6 hours)

WRIT 1301	Composition I
WRIT 1302	Composition II

**Mathematics (3 hours)**

MATH 1314	College Algebra
	Or
MATH 1332	Mathematics for Liberal Arts

**U.S. History (6 hours)**

HIST 1301	United States History I
HIST 1302	United States History II

**Government/Political Science (6 hours)**

POLS 2305	Federal Government
POLS 2306	Texas Government

**Social Behavioral Sciences (3 hours)**

Grade must be "C" or better.

PSYC 2301	Introduction to Psychology
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**Public Speaking (3 hours)**

COMM 1315	Public Speaking
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**Creative Arts (3 hours)**

Choose ONE course from the core approved list (p. 109).

**Language Philosophy and Culture (3 hours)**

Choose ONE course from the core approved list (p. 109).

**Life and Physical Science (6 hours)**

BIOL 1306	Biology for Science Majors I
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Choose ONE additional course from the core approved list (p. 109).

**Additional Coursework (3 hours)**

PSYC 1100	Learning Frameworks
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Two 1-hour natural science labs - required co-requisites for the chosen science courses.

**College of Human Sciences and Humanities**

54 hours of upper-level credit must be "C" or better.

**Core Requirement**

Grade must be a "C" or better.

WRIT 3306	Writing for the Social Sciences
	Or
WRIT 3307	Advanced Writing

**Major Requirements (60 hours)****Sociology Course (Program Prerequisite)**

Grade must be "C" or better.

SOCI 1301	Introduction to Sociology
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**Interdisciplinary Requirements (Choose 2 of the following):**

Note: Students pursuing a Women's Studies certificate should take WMST/HUMN/PSYC 4308 as one of their two interdisciplinary overview requirements.

ANTH 4342	Human Rights and Social Justice
HUMN 3374	Critical Inquiry
HUMN 3375	Ideas in Transition
PHIL 3331	Ethics
PHIL 4314	The Great Philosophers I
PHIL 4315	The Great Philosophers II
SOCI 4328/PSLD 4328	Social Conflict and Mediation
WMST 4308/HUMN 4308/PSYC 4308/SOCI 4308	Introduction to Women's Studies

WMST 4372/HUMN      Seminar in Women's Studies  
 4372/HUMN  
 5732/PSYC 4375/PSYC  
 5732

SWRK Elective or Course Designated by Major (3300/4300 level)

## Overview Requirement

Students must complete 2 courses from each of 2 of the following 3 HSH disciplines:

Psychology, Sociology, or Anthropology. Grades must be "C" or better.

## Psychology Overview Options

Note: Students pursuing a Women's Studies Certificate should take PSYC 4334 Psychology of Women (p. 394); other students may choose from the list below:

PSYC 3321	Learning
PSYC 3331	Theories of Personality
PSYC 4311/SOCI 4311	Social Psychology
PSYC 4334	Psychology of Women
PSYC 4351	Abnormal Psychology
PSYC 4382	Cognitive Psychology

## Sociology Overview Option

SOCI 4312	Social Structure: Class, Power, and Status
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## Anthropology Overview Option

Note: All students must take ANTH 3311 Contemporary Cultural Anthropology (p. 305) 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 Studies in Cultural Diversity (p. 306) or ANTH 4341 Gender and Sexuality in Global Perspectives (p. 306). These courses may be taken only if they are cross-listed with WMST.

ANTH 3311	Contemporary Cultural Anthropology
ANTH 4301	Studies in Cultural Diversity
ANTH 4341/SOCI 4341/WMST 4341	Gender and Sexuality in Global Perspectives

## Program Prerequisites (6 hours)

Grade must be "C" or better.

SWRK 4301	Introduction to Social Work
SWRK 4304	Issues and Ethics in Social Work

## Program Courses (39 hours)

Grade must be "C" or better.

SWRK 4314	Diversity and Human Development Throughout the Life Cycle
SWRK 4317	Social Welfare Policy and Services
SWRK 4318	Social Work Practice I
SWRK 4319	Social Welfare Policy Analysis
SWRK 4324	Oppression, Diversity, and Social Justice
SWRK 4328	Social Work Practice II
SWRK 4338	Social Work Practice III
SWRK 4363	Research Methods
SWRK 4370	Behavioral Statistics
SWRK 4619	Social Work Internship I
SWRK 4629	Social Work Internship II

The following courses require formal admission to the Social Work program:

SWRK 4319 Social Welfare and Policy Analysis (p. 405)

SWRK 4318 Practice I (p. 405)

SWRK 4328 Practice II (p. 406)

SWRK 4338 Practice III (p. 406)

SWRK 4619 Field Practicum I (p. 406)

SWRK 4629 Field Practicum II (p. 406)

**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.

**B.S.W. AND WOMEN'S STUDIES CERTIFICATE OPTION**

Students pursuing a B.S.W. degree who would like to receive an undergraduate certificate in Women's Studies should complete 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:

WMST 4308/HUMN 4308/PSYC 4308/SOCI 4308	Introduction to Women's Studies
WMST 4372/HUMN 4372/PSYC 4375/PSYC 5732	Seminar in Women's Studies

**Psychology Overview**

Note: As their Psychology Overview, students should take:

PSYC 4334	Psychology of Women
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**Anthropology Overview**

Note: As their Anthropology Overview, students should take one course from the following list:

ANTH 4301	Studies in Cultural Diversity
ANTH 4341/SOCI 4341/WMST 4341	Gender and Sexuality in Global Perspectives
WMST 4314	Latina Social Movements in the Americas

Students will need to complete the online "Undergraduate Certificate Intention Form" found on the UHCL Women's Studies web site, at <http://hsh.uhcl.edu/WS>. Interested students should meet with Social Work faculty to make plans for completing the Women's Studies Certificate as soon as possible.

**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 fine 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. Our International Art Consortium brings artists from around the world to UHCL for artist-in-residence workshops and offers students the opportunity to study abroad. 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 and magazine, 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.

## ART AND DESIGN B.F.A.

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. This plan includes an opportunity for an international exchange with faculty and students in Europe and Central America. 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 (p. 215), Studio Art (p. 216), and EC-12 Teacher Certification (p. 218). 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 (51 must be at the upper-level). 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 Design Foundations (p. 307), ARTS 1316 Drawing Foundations (p. 307), ARTS 2371 Digital Photography (p. 307), HUMN 3375 Ideas in Transition (p. 359), PHIL 4314 The Great Philosophers I (p. 386), PHIL 4315 The Great Philosophers II (p. 386), WRIT 3307 Advanced Writing (p. 412), and all 4300-level Art History courses.

### Graphic Design Concentration

#### University Core (42 hours)

##### Communication (6 hours)

WRIT 1301	Composition I
WRIT 1302	Composition II

##### Mathematics (3 hours)

MATH 1314	College Algebra
	Or
MATH 1332	Mathematics for Liberal Arts

##### Creative Arts (3 hours)

ARTS 1303	World Art Survey I
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##### U.S. History (6 hours)

HIST 1301	United States History I
HIST 1302	United States History II

##### Government/Political Science (6 hours)

POLS 2305	Federal Government
POLS 2306	Texas Government

##### Public Speaking (3 hours)

COMM 1315	Public Speaking
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##### Life and Physical Science (6 hours)

Choose TWO courses from the core approved list (p. 109).

##### Language Philosophy and Culture (3 hours)

Choose ONE course from the core approved list (p. 109).

##### Social Behavioral Sciences (3 hours)

Choose ONE course from the core approved list (p. 109).



### **Additional Coursework (3 hours)**

PSYC 1100                      Learning Frameworks  
Two 1-hour natural science labs - required co-requisites for the chosen science courses.

### **College of Human Sciences and Humanities (6 hours)**

48 hours of upper-level credit must be "C" or better.

#### **Core Requirement**

WRIT 3307                      Advanced Writing

#### **Humanities Requirements (3 hours)**

Choose ONE course from the following list:

HUMN 3375	Ideas in Transition
PHIL 4314	The Great Philosophers I
PHIL 4315	The Great Philosophers II
ARTS 43XX	4300-Level Art History Elective

The Art History elective is in addition to the one required in the major.

### **Major Requirements (72 hours)**

#### **Lower-Level Art courses**

ARTS 1304	World Art Survey II
ARTS 1311	Design Foundations
ARTS 1316	Drawing Foundations
ARTS 2371	Digital Photography

#### **Upper-Level Art courses**

ARTS 4358	History and Theory of Graphic Design
	Or
ARTS 4374	Modern Art

ARTS 43XX - must be an Art History course.

#### **Studio Requirements**

ARTS 3310	Sculpture
ARTS 3320	Ceramics
ARTS 3333	Life Drawing
ARTS 3340	Printmaking
ARTS 3360	Graphic Design
COMM 3360	Web Design

#### **Graphic Concentration Requirements**

Choose 9 courses at the 3300/4300 level with the advice of faculty adviser.

#### **Electives**

Choose TWO courses (any 3300/4300 level).

#### **Seminar course**

This course should be completed during the final semester.

ARTS 4390	Senior Seminar in Art
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### **Studio Art Concentration**

### **University Core (42 hours)**

#### **Communication (6 hours)**

WRIT 1301	Composition I
WRIT 1302	Composition II

#### **Mathematics (3 hours)**

MATH 1314	College Algebra
	Or
MATH 1332	Mathematics for Liberal Arts

**Creative Arts (3 hours)**

ARTS 1303	World Art Survey I
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**U.S. History (6 hours)**

HIST 1301	United States History I
HIST 1302	United States History II

**Government/Political Science (6 hours)**

POLS 2305	Federal Government
POLS 2306	Texas Government

**Public Speaking (3 hours)**

COMM 1315	Public Speaking
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**Life and Physical Science (6 hours)**

Choose TWO courses from the core approved list (p. 109).

**Language Philosophy and Culture (3 hours)**

Choose ONE course from the core approved list (p. 109).

**Social Behavioral Sciences (3 hours)**

Choose ONE course from the core approved list (p. 109).

**Additional Coursework (3 hours)**

PSYC 1100	Learning Frameworks
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Two 1-hour natural science labs - required co-requisites for the chosen science courses.

**College of Human Sciences and Humanities (6 hours)**

48 hours of upper-level credit must be "C" or better.

**Core Requirement**

WRIT 3307	Advanced Writing
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**Humanities Requirements (3 hours)**

Choose ONE course from the following list:

HUMN 3375	Ideas in Transition
PHIL 4314	The Great Philosophers I
PHIL 4315	The Great Philosophers II
ARTS 43XX	4300-Level Art History Elective

The Art History elective is in addition to one required in the major.

**Major Requirements (72 hours)****Lower-Level Art courses**

ARTS 1304	World Art Survey II
ARTS 1311	Design Foundations
ARTS 1316	Drawing Foundations
ARTS 2316	Painting
ARTS 2371	Digital Photography

**Upper-Level Art courses**

ARTS 4374	Modern Art
	Or
	Any 4300 level Modern or Contemporary Art History course
ARTS 43XX	4300-Level Art History Elective

**Studio Requirements**

ARTS 3310	Sculpture
ARTS 3320	Ceramics
ARTS 3333	Life Drawing
ARTS 3340	Printmaking
ARTS 3360	Graphic Design
COMM 3360	Web Design

**Seminar course**

ARTS 4390 Senior Seminar in Art

**Studio Concentration Requirements**

Choose 9 art courses at the 3300/4300 level with the advice of faculty adviser.

**Electives (3 hours)**

Choose ONE course (any 3300/4300 level)

**GRAPHIC DESIGN CERTIFICATE**

Undergraduate students concentrating in computer-based Graphic Design are eligible for 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.

**Students must take the following two courses:**

ARTS 3360	Graphic Design
ARTS 4363	Advertising Design

**Choose THREE courses from the following list:**

ARTS 2371	Digital Photography
ARTS 4352	Video Arts
ARTS 4369	Digital Illustration
ARTS 4392	Arts Internship
COMM 3360	Web Design
COMM 4350	3D Computer Modeling

**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 (42 hours)****Communication (6 hours)**

WRIT 1301	Composition I
WRIT 1302	Composition II

**Mathematics (3 hours)**

Choose ONE course from the following:

MATH 1314	College Algebra
	Or
MATH 1332	Mathematics for Liberal Arts

**Life and Physical Science (6 hours)**

Choose TWO courses from the core approved list (p. 109).

**Language Philosophy and Culture (3 hours)**

Choose ONE course from the core approved list (p. 109).

**Creative Arts (3 hours)**

ARTS 1303	World Art Survey I
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**U.S. History (6 hours)**

HIST 1301	United States History I
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HIST 1302                      United States History II

### **Government/Political Science (6 hours)**

POLS 2305                      Federal Government  
POLS 2306                      Texas Government

### **Social Behavioral Sciences (3 hours)**

Choose ONE course from the core approved list.

### **Component Area Option (6 hours)**

COMM 1315                      Public Speaking  
PSYC 1100                      Learning Frameworks  
Two 1-hr life or physical science labs - required co-requisites for the chosen science courses.

### **College of Human Sciences and Humanities (6 hours)**

48 hours of upper-level credit must be "C" or better.

### **Core Requirement (3 hours)**

WRIT 3304                      Writing for Education  
Or  
WRIT 3307                      Advanced Writing  
Grade of "B-" or better is required.

### **Humanities Requirements (3 hours)**

Choose ONE course from the following list:

HUMN 3375                      Ideas in Transition  
PHIL 4314                      The Great Philosophers I  
PHIL 4315                      The Great Philosophers II  
ARTS 43XX                      4300-Level Art History Elective

Art History elective is in addition to one required in major.

### **College of Education Requirements (18 hours)**

#### **Core Requirement**

EDUC 4310                      Theories of Educational Psychology  
INST 3313                      Survey of Instructional Technologies  
SILC 4315                      Theories of American Pluralism  
SPED 2301                      Introduction to Special Populations  
SPED 4300                      Survey of Exceptionalities  
TCED 1301                      Exploring Teaching as a Profession

### **Teacher Education Program (TEP) Admission Requirements**

- Completion of 60 semester credit hours.
- Completion of prerequisite coursework (EDUC 4310 Theories of Educational Psychology (p. 342), INST 3313 Survey of Instructional Technologies (p. 362), & SILC 4315 Theories of American Pluralism (p. 395)).
- 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). (p. 177)

### **Major Requirements (43 hours)**

#### **Courses**

ARTS 1304                      World Art Survey II  
ARTS 1311                      Design Foundations  
ARTS 1316                      Drawing Foundations  
ARTS 3352                      Traditional Photography

	Or
ARTS 2371	Digital Photography
ARTS 3310	Sculpture
ARTS 3320	Ceramics
ARTS 3331	Intermediate Drawing
ARTS 3335	Intermediate Painting
ARTS 3340	Printmaking
ARTS 3360	Graphic Design
ARTS 4302	Crafts Design
ARTS 43XX	4300-Level Art History Elective
ARTS 43XX	ARTS 4300-level Studio Art Elective
LLS 4351	Reading in Content Subjects
TCED 4102	Core Subjects Teacher Seminar

#### Notes:

- ARTS 4374 Modern Art (p. 312) is preferred for the Art History elective.
- GPA of 2.500 or higher required in ARTS and LLS coursework.

## Pedagogy Requirements (18 hours)

### Courses

- |           |  |
|-----------|--|
| ARTS 4300 | Methods in Elementary Art Education        |
| ARTS 4301 | Methods in Secondary Art Education         |
| TCED 4378 | Pre-Service Internship I                   |
| TCED 4978 | Pre-Service Internship II/Student Teaching |
- Enrollment in the courses listed above requires admission to the TEP (p. 177).
  - 3.000 GPA required in pedagogy coursework.
  - TCED 4378 Pre-Service Internship I (p. 409) must be taken in the long semester immediately preceding the final semester.
  - TCED 4978 Pre-Service Internship II (p. 410) must be taken in the final semester.

### Teacher Certification Requirements

- Passing scores on the appropriate state assessments (Texas Examinations of Educator Standards [TExES] (p. 138)) 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.

## 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. The Communication curriculum requires a minimum of 48 upper-level credit hours. 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 at [http://prtl.uhcl.edu/portal/page/portal/HS/\\_Programs/Communication](http://prtl.uhcl.edu/portal/page/portal/HS/_Programs/Communication).

Contact information for the Communication and Digital Media Association (CDMA) is located on at <http://www.uhcl.edu/portal/page/portal/SOR/cdma>. This student organization serves as a great networking opportunity for communication students.

## **University Core (42 hours)**

### **Communication (6 hours)**

WRIT 1301	Composition I
WRIT 1302	Composition II

### **Mathematics (3 hours)**

MATH 1314	College Algebra
	Or
MATH 1332	Mathematics for Liberal Arts

### **U.S. History (6 hours)**

HIST 1301	United States History I
HIST 1302	United States History II

### **Government/Political Science (6 hours)**

POLS 2305	Federal Government
POLS 2306	Texas Government

### **Public Speaking (3 hours)**

COMM 1315	Public Speaking
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### **Life and Physical Science (6 hours)**

Choose TWO courses from the core approved list (p. 109).

### **Language Philosophy and Culture (3 hours)**

Choose ONE course from the core approved list (p. 109).

### **Creative Arts (3 hours)**

Choose ONE course from the core approved list (p. 109).

### **Social Behavioral Sciences (3 hours)**

Choose ONE course from the core approved list (p. 109).

### **Additional Coursework (3 hours)**

PSYC 1100	Learning Frameworks
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Two 1-hour natural science labs - required co-requisites for the chosen science courses.

## **College of Human Sciences and Humanities (3 hours)**

To earn a degree in communication, students must graduate with a GPA of 2.5 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 Requirement**

Advanced Writing must be passed with a grade of "C" or better.

WRIT 3307	Advanced Writing
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## **Major Requirements (36 hours)**

### **Choose TWO courses from any 3300/4300 level ANTH, PHIL, PSYC, SOCI**

These courses must be passed with grades of "C" or better.

### **Courses**

ARTS 2371	Digital Photography
COMM 1307	Introduction to Mass Communication
COMM 3320	Principles of Public Relations

COMM 3321	Media Writing
COMM 3352	Media Law
COMM 4358	Publication Design
COMM 3360	Web Design

### **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
COMM 4379	Communication Internship
COMM 4655	Media Production

### **Communication Electives (15 hours)**

Choose FIVE courses from a designated list (3300/4300 level)

#### **Electives (24 hours)**

12 hours must be 3300/4300 level

12 hours may be 1300/2300 level

Students may take any course as an elective, including communication courses not taken to meet major requirements.

## **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.

### **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, religious, cultural, and philosophical. The undergraduate major in History is not limited to history courses but should draw from the entire range of related disciplines including anthropology, art, government, and economics.

Students who plan to teach history and/or government at the secondary school level should select the History major. For additional information, contact the HSH Advising Coordinator.

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 (42 hours)**

#### **Communication (6 hours)**

WRIT 1301	Composition I
WRIT 1302	Composition II

#### **Mathematics (3 hours)**

MATH 1314	College Algebra
	Or
MATH 1332	Mathematics for Liberal Arts

#### **U.S. History (6 hours)**

HIST 1301	United States History I
HIST 1302	United States History II

#### **Government/Political Science (6 hours)**

POLS 2305	Federal Government
POLS 2306	Texas Government

**Public Speaking (3 hours)**

COMM 1315                      Public Speaking

**Life and Physical Science (6 hours)**

Choose TWO courses from the core approved list (p. 109).

**Language Philosophy and Culture (3 hours)**

Choose ONE course from the core approved list (p. 109).

**Creative Arts (3 hours)**

Choose ONE course from the core approved list (p. 109).

**Social Behavioral Sciences (3 hours)**

GEOG 1303                      World Regional Geography

**Additional Coursework (3 hours)**

PSYC 1100                      Learning Frameworks

Two 1-hour natural science labs - required co-requisites for the chosen science courses.

**College of Human Sciences and Humanities (3 hours)**

48 hours of upper-level credit must be "C" or better.

**Core Requirement**

WRIT 3307                      Advanced Writing

**Major Requirements (42 hours)****Humanities-Social Science Requirement**

Choose ONE course from:

PHIL 3331	Ethics
PHIL 3343	Philosophy and Knowledge I
PHIL 4314	The Great Philosophers I
PHIL 4315	The Great Philosophers II

**Choose ONE course from:**

ANTH 3311	Contemporary Cultural Anthropology
ANTH 3358	Topics in Middle Eastern Societies
ANTH 4333	Peoples of Mexico and Central America
ANTH 4334	Native Americans
ANTH 4352	World Prehistory and Archaeology

**History courses**

HIST 2321 World Civilization I (p. 353)

HIST 2322 World Civilization II (p. 353)

HIST 3316 Historical Studies (p. 354)

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) course.

**Electives (33 hours)**

12 hours General Electives - can be lower (1300/2300) level

21 hours must be upper-level - any 3300/4300 level courses at UHCL



## HISTORY B.A. WITH GRADES 7-12 HISTORY CERTIFICATION

*Note: This degree requires a minimum of 127 credit hours.*

### University Core (42 hours)

#### Communication (6 hours)

WRIT 1301	Composition I
WRIT 1302	Composition II

#### Mathematics (3 hours)

Choose ONE course from the following:

MATH 1314	College Algebra
Or	
MATH 1332	Mathematics for Liberal Arts

#### Life and Physical Science (6 hours)

Choose TWO courses from the core approved list (p. 109).

#### Language Philosophy and Culture (3 hours)

Choose ONE course from the core approved list (p. 109).

#### Creative Arts (3 hours)

Choose ONE course from the core approved list (p. 109).

#### U.S. History (6 hours)

HIST 1301	United States History I
HIST 1302	United States History II

#### Government/Political Science (6 hours)

POLS 2305	Federal Government
POLS 2306	Texas Government

#### Social Behavioral Sciences (3 hours)

GEOG 1303	World Regional Geography
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#### Component Area Option (6 hours)

COMM 1315	Public Speaking
PSYC 1100	Learning Frameworks
	Two 1-hr life or physical science labs - required co-requisites for the chosen science courses.

### College of Human Sciences and Humanities (6 hours)

48 hours of upper-level credit must be "C" or better.

#### Humanities Requirements (3 hours)

Choose ONE course from the following list:

PHIL 3331	Ethics
PHIL 3343	Philosophy and Knowledge I
PHIL 4314	The Great Philosophers I
PHIL 4315	The Great Philosophers II

#### Core Requirement (3 hours)

WRIT 3304	Writing for Education
Or	

WRIT 3307	Advanced Writing
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Grade of "B-" or better is required.

### College of Education Requirements (18 hours)

#### Core Requirement

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism
SPED 2301	Introduction to Special Populations

SPED 4300	Survey of Exceptionalities
TCED 1301	Exploring Teaching as a Profession

### **Teacher Education Program (TEP) Admission Requirements**

- Completion of 60 semester credit hours.
- Completion of prerequisite coursework (EDUC 4310 Theories of Educational Psychology (p. 342), INST 3313 Survey of Instructional Technologies (p. 362), and SILC 4315 Theories of American Pluralism (p. 395)).
- 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). (p. 177)

### **Major Requirements (46 hours)**

#### **Courses**

HIST 2301 Texas History (p. 353)

HIST 2321 World Civilization I (p. 353)

HIST 2322 World Civilization II (p. 353)

HIST 3316 Historical Studies (p. 354)

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).

ECON 2301 Principles of Macroeconomics (p. 341)

LLS 4351	Reading in Content Subjects
TCED 4102	Core Subjects Teacher Seminar
TCED 4306	Creating Positive Learning Environments in 7-12

- GPA of 2.500 or higher required in HIST and LLS coursework.

### **Pedagogy Requirements (15 hours)**

#### **Courses**

TCED 4361	Methods in Secondary Social Studies
TCED 4378	Pre-Service Internship I
TCED 4978	Pre-Service Internship II/Student Teaching

- Enrollment in the courses listed above requires admission to the TEP (p. 177).
- 3.000 GPA required in pedagogy coursework.
- TCED 4378 Pre-Service Internship I (p. 409) must be taken in the long semester immediately preceding the final semester.
- TCED 4978 Pre-Service Internship II (p. 410) must be taken in the final semester.

**Teacher Certification Requirements**

- Passing scores on the appropriate state assessments (Texas Examinations of Educator Standards [TExES] (p. 138)) 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 GRADES 7-12 SOCIAL STUDIES CERTIFICATION**

*Note: This degree requires a minimum of 127 credit hours.*

**University Core (42 hours)****Communication (6 hours)**

WRIT 1301	Composition I
WRIT 1302	Composition II

**Mathematics (3 hours)**

Choose ONE course from the following:

MATH 1314	College Algebra
	Or
MATH 1332	Mathematics for Liberal Arts

**Life and Physical Science (6 hours)**

Choose TWO courses from the core approved list (p. 109).

**Language Philosophy and Culture (3 hours)**

Choose ONE course from the core approved list (p. 109).

**Creative Arts (3 hours)**

Choose ONE course from the core approved list (p. 109).

**U.S. History (6 hours)**

HIST 1301	United States History I
HIST 1302	United States History II

**Government/Political Science (6 hours)**

POLS 2305	Federal Government
POLS 2306	Texas Government

**Social Behavioral Sciences (3 hours)**

GEOG 1303	World Regional Geography
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**Component Area Option (6 hours)**

COMM 1315	Public Speaking
PSYC 1100	Learning Frameworks
	Two 1-hr life or physical science labs - required co-requisites for the chosen science courses.

**College of Human Sciences and Humanities (6 hours)**

48 hours of upper-level credit must be "C" or better.

**Humanities Requirements (3 hours)**

Choose ONE course from the following list:

PHIL 3331	Ethics
PHIL 3343	Philosophy and Knowledge I
PHIL 4314	The Great Philosophers I
PHIL 4315	The Great Philosophers II

**Core Requirement (3 hours)**

WRIT 3304                      Writing for Education  
    Or  
 WRIT 3307                      Advanced Writing  
 Grade of "B-" or better is required.

**College of Education Requirements (18 hours)****Core Requirement**

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism
SPED 2301	Introduction to Special Populations
SPED 4300	Survey of Exceptionalities
TCED 1301	Exploring Teaching as a Profession

**Teacher Education Program (TEP) Admission Requirements**

- Completion of 60 semester credit hours.
- Completion of prerequisite coursework (EDUC 4310 Theories of Educational Psychology (p. 342), INST 3313 Survey of Instructional Technologies (p. 362), and SILC 4315 Theories of American Pluralism (p. 395)).
- 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). (p. 177)

**Major Requirements (46 hours)****Courses**

HIST 2301 Texas History (p. 353)

HIST 2321 World Civilization I (p. 353)

HIST 2322 World Civilization II (p. 353)

HIST 3301 Ancient World (p. 353)

HIST 3316 Historical Studies (p. 354)

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.

ECON 2301 Principles of Macroeconomics (p. 341)

LLS 4351	Reading in Content Subjects
TCED 4102	Core Subjects Teacher Seminar
TCED 4306	Creating Positive Learning Environments in 7-12

- GPA of 2.500 or higher required in HIST and LLS coursework.

**Pedagogy Requirements (15 hours)****Courses**

TCED 4361	Methods in Secondary Social Studies
TCED 4378	Pre-Service Internship I
TCED 4978	Pre-Service Internship II/Student Teaching

- Enrollment in the courses listed above requires admission to the TEP (p. 177).
- 3.000 GPA required in pedagogy coursework.

- TCED 4378 Pre-Service Internship I (p. 409) must be taken in the long semester immediately preceding the final semester.
- TCED 4978 Pre-Service Internship II (p. 410) must be taken in the final semester.

### **Teacher Certification Requirements**

- Passing scores on the appropriate state assessments (Texas Examinations of Educator Standards [TExES] (p. 138)) 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 (p. 229), film studies (p. 230), global studies (p. 231), healthcare ethics (p. 231), history (p. 229), literature (p. 229), philosophy (p. 229), pre-law (p. 230), and religious studies (p. 231). 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 Advising Coordinator.

## **University Core (42 hours)**

### **Communication (6 hours)**

WRIT 1301	Composition I
WRIT 1302	Composition II

### **Mathematics (3 hours)**

MATH 1314	College Algebra
	Or
MATH 1332	Mathematics for Liberal Arts

### **Language Philosophy and Culture (3 hours)**

HUMN 1301	Humanities
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### **U.S. History (6 hours)**

HIST 1301	United States History I
HIST 1302	United States History II

### **Government/Political Science (6 hours)**

POLS 2305	Federal Government
POLS 2306	Texas Government

### **Public Speaking (3 hours)**

COMM 1315	Public Speaking
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### **Life and Physical Science (6 hours)**

Choose TWO courses from the core approved list (p. 109).

### **Creative Arts (3 hours)**

Choose ONE course from the core approved list (p. 109).

### **Social Behavioral Sciences (3 hours)**

Choose ONE course from the core approved list (p. 109).

**Additional Coursework (3 hours)**

PSYC 1100	Learning Frameworks
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Two 1-hour natural science labs - required co-requisites for the chosen science courses.

**College of Human Sciences and Humanities (3 hours)**

48 hours of upper-level credit must be "C" or better.

**Core Requirement**

WRIT 3307	Advanced Writing
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**Major Requirements (66 hours)****Choose ONE course from:**

HUMN 3374	Critical Inquiry
PHIL 4314	The Great Philosophers I
PHIL 4315	The Great Philosophers II

**Choose ONE course outside the program that relates to concentration areas (3300/4300 level).****Philosophy course**

PHIL 1301	Introduction to Philosophy
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(or a 3300/4300 level Philosophy course)

**Arts courses**

ARTS 1303	World Art Survey I
ARTS 1304	World Art Survey II

**Concentration Note**

In order to organize their studies, explore a specific topic, and prepare for careers, students may select one of the following concentration areas. Students who complete a concentration will receive a certificate. Concentration areas are listed below. For more information, contact a full-time Humanities faculty member.

**Humanities courses**

HUMN 3375	Ideas in Transition
HUMN 4375	Senior Seminar

**Electives (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.

**Concentration 1: Literature**

Choose FIVE literature classes (LITR rubric; substitutions by approval) or HUMN 3375 Ideas in Transition (p. 359) 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 Ideas in Transition (p. 359) 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 Ideas in Transition (p. 359) 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:**

\*Note: HUMN 3375 Ideas in Transition (p. 359) may be taken when the topic is one of the following: Mind, Brain, and Meaning; Alienation; or Values.

HUMN 3375	Ideas in Transition
PHIL 3321	Logic
PHIL 3331	Ethics
PHIL 4314	The Great Philosophers I
PHIL 4315	The Great Philosophers II

**Concentration 5: Film Studies**

Choose FIVE of the following classes.

\*Note: HUMN 4391 Selected Topics in Humanities (p. 361) must be "An Introduction to Indian Cinema."

\*Note: The topic for HUMN 3375 Ideas in Transition (p. 359) must be Values, Love, Freedom, or Power.

COMM 1307	Introduction to Mass Communication
COMM 4301	Global Issues in Film
COMM 4354	Video Production I
COMM 4355	Video Production 2
COMM 4655	Media Production
HIST 3345	Reel America I
HIST 3347	Reel America II
HIST 4303	Reel Europe
HIST 4305	Nazi Cinema and Third Reich
HIST 4323	The Vietnam War in Film
HUMN 3375	Ideas in Transition
HUMN 4326	Studies in Film
HUMN 4391	Selected Topics in Humanities
LITR 4360	Film as Literature

**Concentration 6: Pre-Law**

Choose FIVE of the following classes:

\*Note: The topic for HUMN 3375 Ideas in Transition (p. 359) must be Freedom.

ANTH 3352	Political/Economic Anthropology
ANTH 4341/SOCI 4341/W MST 4341	Gender and Sexuality in Global Perspectives
ANTH 4342	Human Rights and Social Justice
CRIM 3312/SOCI 3312	Criminology
CRIM 3335/SOCI 3335	Deviance
CRIM 4332	Social Problems and the Legal System
HIST 3333	Growth of Industrial America
HIST 3335	U.S. 1919-1945
HIST 3337	U.S. Since 1945
HIST 4319	U.S. Labor History
HUMN 3375	Ideas in Transition
PHIL 3321	Logic
PHIL 3331	Ethics
PHIL 4314	The Great Philosophers I
PHIL 4315	The Great Philosophers II
POLS 3332	State and Local Government
POLS 4313	Civil Liberties in America
POLS 4315	Judicial Process
POLS 4351	Public Administration
POLS 4355	Political Philosophy
POLS 4374	Pre-Law Seminar and LSAT Preparation
SOCI 3351	Political Sociology
SOCI 3352	Urban Sociology
SOCI 4312	Social Structure: Class, Power, and Status
SOCI 4322	Theories of Society
SOCI 4328/PSLD 4328	Social Conflict and Mediation
SOCI 4332	Sociology of Law
SOCI 4355	Minorities in America

SOCI 4331/CRIM 4331	Prison and Society
SOCI 4333	Crisis Intervention
SOCI 4342	Human Rights and Social Justice
WMST 4316/SOCI 4316	Women and the Law

### Concentration 7: Global Studies

Choose FIVE of the following classes:

\*Note: HUMN 4391 Selected Topics in Humanities (p. 361) should focus on Global Theories, Indian Cinema, or World Geography.

\*Note: The topic for HUMN 3375 Ideas in Transition (p. 359) must be Exile, Propaganda and Persuasion, Technologies of Communication, Values, Love, Freedom, or Power.

ANTH 3355	Topics in Asian Studies
ANTH 3358	Topics in Middle Eastern Societies
ANTH 4333	Peoples of Mexico and Central America
ARTS 4370	Gender and Identity in the Visual Arts
ARTS 4372	Studies in Western European Art
ARTS 4376	Studies in Non-Western Art
GEOG 4317	Introduction to Globalization
HIST 3311	Revolutionary Europe
HIST 3313	Modern Europe
HIST 3321	Modern Latin America
HIST 3323	History of Mexico
HIST 3340	Women in European History
HIST 4303	Reel Europe
HIST 4307	Holocaust: History, Literature, and Film
HIST 4309	Studies in Latin American History
HIST 4325	Studies in Middle Eastern History
HUMN 3375	Ideas in Transition
HUMN 4391	Selected Topics in Humanities
LITR 4340	American Immigrant Literature
LITR 4344	The Modern Novel
SOCI 3316	Global Sociology
SOCI 3352	Urban Sociology
WMST 4312	Women of Color

### Concentration 8: Religious Studies

Choose FIVE of the following classes:

\*Note: The topic for HUMN 3375 Ideas in Transition (p. 359) must be Mind, Brain, and Meaning; Alienation; or Power.

ANTH 3358	Topics in Middle Eastern Societies
ARTS 4376	Studies in Non-Western Art
HIST 3309	Renaissance and Reformation
HIST 3313	Modern Europe
HIST 4307	Holocaust: History, Literature, and Film
HUMN 3375	Ideas in Transition
LITR 3334	Mythology
LITR 4312	Chaucer
LITR 4346	Medieval Literature
LITR 4366	Literature and Religion
PHIL 3331	Ethics
PHIL 4314	The Great Philosophers I
PHIL 4315	The Great Philosophers II
PHIL 4322	Philosophy of Religion
SOCI 4323	Religion in Society

### Concentration 9: Healthcare Ethics

Choose FIVE of the following classes:

ANTH 3361	Anthropology of Food
ANTH 3362	Medicine, Bodies, and Culture
ANTH 4342	Human Rights and Social Justice
PHIL 3331	Ethics
PSYC 3334	Drugs and Behavior



PSYC 4351	Abnormal Psychology
PSYC 4356/SOCI 4356	The Aging Experience
PSYC 4375	Personal Stress Management
SOCI 4303	Human Services
SOCI 4304	Professional Issues in Human Services
SWRK 4314	Diversity and Human Development Throughout the Life Cycle

## 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. For information, contact the HSH Advising Coordinator.

### University Core (42 hours)

#### Communication (6 hours)

WRIT 1301	Composition I
WRIT 1302	Composition II

#### Mathematics (3 hours)

MATH 1314	College Algebra
	Or
MATH 1332	Mathematics for Liberal Arts

#### U.S. History (6 hours)

HIST 1301	United States History I
HIST 1302	United States History II

#### Government/Political Science (6 hours)

POLS 2305	Federal Government
POLS 2306	Texas Government

#### Public Speaking (3 hours)

COMM 1315	Public Speaking
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#### Life and Physical Science (6 hours)

Choose TWO courses from the core approved list (p. 109).

#### Language Philosophy and Culture (3 hours)

Choose ONE course from the core approved list (p. 109).

#### Creative Arts (3 hours)

Choose ONE course from the core approved list (p. 109).

#### Social Behavioral Sciences (3 hours)

Choose ONE course from the core approved list (p. 109).

#### Additional Coursework (3 hours)

PSYC 1100	Learning Frameworks
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Two 1-hour natural science labs - required co-requisites for the chosen science courses.

### College of Human Sciences and Humanities (3 hours)

48 hours of upper-level credit must be "C" or better.

#### Core Requirement

WRIT 3307	Advanced Writing
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### Major Requirements (36 hours)

#### Choose ONE course from:

HUMN 3374	Critical Inquiry
HUMN 3375	Ideas in Transition
PHIL 3331	Ethics

PHIL 4314	The Great Philosophers I
PHIL 4315	The Great Philosophers II

**Choose ONE course from:**

ANTH 3311	Contemporary Cultural Anthropology
ANTH 4352	World Prehistory and Archaeology
PSYC 3331	Theories of Personality
PSYC 4311/SOCI 4311	Social Psychology
SOCI 4312	Social Structure: Class, Power, and Status
SOCI 4322	Theories of Society
WMST 4308/HUMN 4308/PSYC 4308/SOCI 4308	Introduction to Women's Studies

**Literature courses**

LITR 3301 Literary Studies (p. 369)

Choose TWO Literature - 2300-level British, American, or World courses

Choose ONE American Literature - 3300/4300 level course

Choose ONE British Literature - any 3300/4300 level course

Choose ONE British Literature - Pre-1700 at the 3300/4300 level course

Choose ONE World or Multicultural Literature - 3300/4300 level course

Choose ONE Pre-1800 Literature - 3300/4300 level course

Choose TWO Literature electives - 3300/4300 level courses

**Electives (39 hours)**

Lower-level electives

COMM 1300/2300 level (3 hours)

PHIL 1300/2300 level (3 hours)

Fine Arts 1300/2300 level (3 hours)

General Electives 1300/2300 (3 hours)

Upper-level electives

27 hours must be upper-level - any 3300/4300 level courses at UHCL

## LITERATURE B.A. WITH GRADES 4-8 ENGLISH LANGUAGE ARTS AND READING CERTIFICATION

*Note: This degree requires a minimum of 133 credit hours.*

**University Core (42 hours)****Communication (6 hours)**

WRIT 1301	Composition I
WRIT 1302	Composition II

**Mathematics (3 hours)**

Choose ONE course from the following:

MATH 1314	College Algebra
	Or
MATH 1332	Mathematics for Liberal Arts

**Life and Physical Science (6 hours)**

Choose TWO courses from the core approved list (p. 109).

**Language Philosophy and Culture (3 hours)**

Choose ONE course from the core approved list (p. 109).

**Creative Arts (3 hours)**

Choose ONE course from the core approved list (p. 109).

**U.S. History (6 hours)**

HIST 1301	United States History I
HIST 1302	United States History II

**Government/Political Science (6 hours)**

POLS 2305	Federal Government
POLS 2306	Texas Government

**Social Behavioral Sciences (3 hours)**

Choose ONE course from the core approved list (p. 109).

**Component Area Option (6 hours)**

COMM 1315	Public Speaking
PSYC 1100	Learning Frameworks
	Two 1-hr life or physical science labs - required co-requisites for the chosen science courses.

**College of Human Sciences and Humanities (9 hours)**

48 hours of upper-level credit must be "C" or better.

**Human Science Requirement (3 hours)**

Choose ONE course from the following list:

ANTH 3311	Contemporary Cultural Anthropology
ANTH 4352	World Prehistory and Archaeology
PSYC 3331	Theories of Personality
PSYC 4311/SOCI 4311	Social Psychology
SOCI 4312	Social Structure: Class, Power, and Status
SOCI 4322	Theories of Society
WMST 4308/HUMN 4308/PSYC 4308/SOCI 4308	Introduction to Women's Studies

**Core Requirement (3 hours)**

WRIT 3304	Writing for Education
	Or
WRIT 3307	Advanced Writing

Grade of "B-" or better is required.

**Humanities Requirements (3 hours)**

Choose ONE course from the following list:

HUMN 3374	Critical Inquiry
HUMN 3375	Ideas in Transition
PHIL 3331	Ethics
PHIL 4314	The Great Philosophers I
PHIL 4315	The Great Philosophers II

**College of Education Requirements (18 hours)****Core Requirement**

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism
SPED 2301	Introduction to Special Populations
SPED 4300	Survey of Exceptionalities
TCED 1301	Exploring Teaching as a Profession

**Teacher Education Program (TEP) Admission Requirements**

- Completion of 60 semester credit hours.
- Completion of prerequisite coursework (EDUC 4310 Theories of Educational Psychology (p. 342), INST 3313 Survey of Instructional Technologies (p. 362), and SILC 4315 Theories of American Pluralism (p. 395)).

- Completion of public speaking requirement.
- Completion of Basic Skills in Reading, Mathematics, and Writing requirement.
- 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). (p. 177)

## Major Requirements (55 hours)

### Courses

Choose TWO LITR 2300-level American or British Literature course.

Choose ONE American Literature (3300/4300 level) course.

Choose ONE British Literature (3300/4300 level) course.

Choose ONE British Literature (pre-1700) (3300/4300 level) course.

Choose ONE World or Multicultural Literature (3300/4300 level) course.

Choose ONE pre-1800 Literature (3300/4300 level) course.

Choose ONE Literature elective (3300/4300 level) course.

LITR 3301	Literary Studies: Genres and Critical Perspectives
LITR 3302	Principles of Composition
LLS 4311	Survey of Reading
LLS 4346	Teaching Language Arts in the 4-8 Classroom
LLS 4351	Reading in Content Subjects
MATH 1350	Fundamentals of Math I
MATH 1351	Fundamentals of Math II
TCED 4102	Core Subjects Teacher Seminar
TCED 4304	Creating Positive Learning Environments in 4-8
	Two natural science courses in addition to the University Core

- GPA of 2.500 or higher required in LITR and LLS coursework.

## Pedagogy Requirements (12 hours)

### Courses

TCED 4378	Pre-Service Internship I
TCED 4978	Pre-Service Internship II/Student Teaching

- Enrollment in the courses listed above requires admission to the TEP (p. 177).
- 3.000 GPA required in pedagogy coursework.
- TCED 4378 Pre-Service Internship I (p. 409) must be taken in the long semester immediately preceding the final semester.
- TCED 4978 Pre-Service Internship II (p. 410) must be taken in the final semester.

## Teacher Certification Requirements

- Passing scores on the appropriate state assessments (Texas Examinations of Educator Standards [TExES] (p. 138)) 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.

To be "Highly Qualified" for employment to teach at the elementary level (Grades EC-6), teacher candidates must pass an EC-6 Core Subjects or 4-8 Core Subjects TExES examination. Candidates may take a TExES Core Subjects examination after completing an initial certification program. Fully certified teachers may register for the additional TExES as "By Examination Only" at the ETS test registration website. They may then apply at the SBEC/TEA website as "Certification by Examination" to add the Core Subjects certificate. Contact TEA's NCLB office for further information at 512-463-9374 or <http://tea.texas.gov/>.

## LITERATURE B.A. WITH GRADES 7-12 ENGLISH LANGUAGE ARTS AND READING CERTIFICATION

*Note: This degree plus certification requires a minimum of 127 credit hours.*

### University Core (42 hours)

#### Communication (6 hours)

WRIT 1301	Composition I
WRIT 1302	Composition II

#### Mathematics (3 hours)

Choose ONE course from the following:

MATH 1314	College Algebra
	Or
MATH 1332	Mathematics for Liberal Arts

#### Life and Physical Science (6 hours)

Choose TWO courses from the core approved list (p. 109).

#### Language Philosophy and Culture (3 hours)

Choose ONE course from the core approved list (p. 109).

#### Creative Arts (3 hours)

Choose ONE course from the core approved list (p. 109).

#### U.S. History (6 hours)

HIST 1301	United States History I
HIST 1302	United States History II

#### Government/Political Science (6 hours)

POLS 2305	Federal Government
POLS 2306	Texas Government

#### Social Behavioral Sciences (3 hours)

Choose ONE course from the core approved list (p. 109).

#### Component Area Option (6 hours)

COMM 1315	Public Speaking
PSYC 1100	Learning Frameworks
	Two 1-hr life or physical science labs - required co-requisites for the chosen science courses.

### College of Human Sciences and Humanities (9 hours)

48 hours of upper-level credit must be "C" or better.

#### Human Science Requirement (3 hours)

Choose ONE course from the following list:

ANTH 3311	Contemporary Cultural Anthropology
ANTH 4352	World Prehistory and Archaeology
PSYC 3331	Theories of Personality
PSYC 4311/SOCI 4311	Social Psychology
SOCI 4312	Social Structure: Class, Power, and Status
SOCI 4322	Theories of Society
WMST 4308/HUMN 4308/PSYC 4308/SOCI 4308	Introduction to Women's Studies

#### Core Requirement (3 hours)

WRIT 3304	Writing for Education
	Or
WRIT 3307	Advanced Writing

Grade of "B-" or better is required.

## Humanities Requirements (3 hours)

Choose ONE course from the following list:

HUMN 3374	Critical Inquiry
HUMN 3375	Ideas in Transition
PHIL 3331	Ethics
PHIL 4314	The Great Philosophers I
PHIL 4315	The Great Philosophers II

## College of Education Requirements (18 hours)

### Core Requirement

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism
SPED 2301	Introduction to Special Populations
SPED 4300	Survey of Exceptionalities
TCED 1301	Exploring Teaching as a Profession

### Teacher Education Program (TEP) Admission Requirements

- Completion of 60 semester credit hours.
- Completion of prerequisite coursework (EDUC 4310 Theories of Educational Psychology (p. 342), INST 3313 Survey of Instructional Technologies (p. 362), and SILC 4315 Theories of American Pluralism (p. 395)).
- 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). (p. 177)

## Major Requirements (46 hours)

### Courses

Choose TWO LITR 2300-level American or British Literature courses.

Choose ONE American Literature (3300/4300 level) course.

Choose ONE British Literature (3300/4300 level) course.

Choose ONE World or Multicultural Literature (3300/4300 level) course.

Choose ONE pre-1800 Literature (3300/4300 level) course.

Choose TWO Literature electives (3300/4300 level) courses.

LITR 3301	Literary Studies: Genres and Critical Perspectives
LITR 3302	Principles of Composition
LITR 3361	Shakespeare
LLS 4313	Corrective and Remedial Reading
LLS 4332	Diagnostic and Prescriptive Reading
LLS 4352	Young Adult Literature and Reading
TCED 4102	Core Subjects Teacher Seminar
TCED 4306	Creating Positive Learning Environments in 7-12

- GPA of 2.500 or higher required in LITR and LLS coursework.

## Pedagogy Requirements (15 hours)

### Courses

LLS 4364	Methods in Secondary English/Language Arts
TCED 4378	Pre-Service Internship I
TCED 4978	Pre-Service Internship II/Student Teaching

- Enrollment in the courses listed above requires admission to the TEP (p. 177).

- 3.000 GPA required in pedagogy coursework.
- TCED 4378 Pre-Service Internship I (p. 409) must be taken in the long semester immediately preceding the final semester.
- TCED 4978 Pre-Service Internship II (p. 410) must be taken in the final semester.

### **Teacher Certification Requirements**

- Passing scores on the appropriate state assessments (Texas Examinations of Educator Standards [TExES] (p. 138)) 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.

## **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

### **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 (42 hours)**

#### **Communication (6 hours)**

WRIT 1301	Composition I
WRIT 1302	Composition II

#### **Mathematics (3 hours)**

MATH 1314	College Algebra
	Or
MATH 1332	Mathematics for Liberal Arts

#### **U.S. History (6 hours)**

HIST 1301	United States History I
HIST 1302	United States History II

#### **Government/Political Science (6 hours)**

POLS 2305	Federal Government
POLS 2306	Texas Government

#### **Public Speaking (3 hours)**

COMM 1315	Public Speaking
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#### **Life and Physical Science (6 hours)**

Choose TWO courses from the core approved list (p. 109).

#### **Language Philosophy and Culture (3 hours)**

Choose ONE course from the core approved list (p. 109).

#### **Creative Arts (3 hours)**

Choose ONE course from the core approved list (p. 109).

### **Social Behavioral Sciences (3 hours)**

Choose ONE course from the core approved list (p. 109).

### **Additional Coursework (3 hours)**

PSYC 1100                      Learning Frameworks

Two 1-hour natural science labs - required co-requisites for the chosen science courses.

## **College of Human Sciences and Humanities**

48 hours of upper-level credit must be "C" or better.

### **Core Requirement (3 hours)**

WRIT 3306                      Writing for the Social Sciences

Or

WRIT 3307                      Advanced Writing

## **Major Requirements (48 hours)**

### **Choose ONE course from:**

HUMN 3374	Critical Inquiry
HUMN 3375	Ideas in Transition
PHIL 3331	Ethics
PHIL 4314	The Great Philosophers I
PHIL 4315	The Great Philosophers II

### **Diversity Requirement**

Choose TWO courses from a designated list (p. 202) (all are at the 3300/4300 level).

### **Choose ONE of:**

ANTH 3311	Contemporary Cultural Anthropology
ANTH 3361	Anthropology of Food
ANTH 3362	Medicine, Bodies, and Culture
ANTH 4351/ANTH	Families, Communities, and Globalization
5531/PSYC 5535/SOCI	
5535	

### **Choose ONE of:**

SOCI 4312	Social Structure: Class, Power, and Status
SOCI 4322	Theories of Society

### **Psychology Required Courses (18 hours)**

PSYC 2301	Introduction to Psychology
PSYC 3311	Careers and Writing in Psychology
PSYC 3315	Psychological Thinking
PSYC 4370	Behavioral Statistics
PSYC 4371	Research Methods
PSYC 4392	Capstone in Psychology

PSYC 3331 Careers and Writing in Psychology (p. 392) 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 Capstone in Psychology (p. 395) 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
PSYC 4311/SOCI 4311	Social Psychology

#### **Core II**

PSYC 4314	Child Psychology
PSYC 4315	Adolescent Psychology



**Core III**

PSYC 3321	Learning
PSYC 4382	Cognitive Psychology

**Core IV**

PSYC 4316	Brain and Behavior
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**Psychology Required Electives (2 courses)**

Choose any 3300/4300 level Psychology courses. These may be additional courses chosen from Core areas I-IV (p. 239) (see above).

**Electives (27 hours)**

Electives can be from any level 1300-4300.

**WOMEN'S STUDIES B.A.**

The Women's Studies program at UHCL offers a Bachelor of Arts as well as an undergraduate certificate. Students gain understanding of multiple and alternative perspectives of lived experiences related to race, ethnicity, class, sexual orientation, ability, and additional identities. Women's Studies students learn the value of social action to the empowerment of women and girls.

The undergraduate major in Women's Studies provides a multidisciplinary education, offering courses that span both the humanities and social sciences. No prerequisites are required. The objective of this major is to expose students to a broad range of issues relating to the study of women and gender and to teach students to reflect critically and analytically on these topics. A parallel focus of this program relates women's issues to analyses of social factors such as ethnicity, race, class, and sexual orientation both within the U.S. and globally.

The Women's Studies program is no longer accepting applications for admission to the major. Students with interests in Women's Studies should contact the program director or department chair for information about opportunities to pursue a minor or a certificate in Women's Studies.

**University Core (42 hours)****Communication (6 hours)**

WRIT 1301	Composition I
WRIT 1302	Composition II

**Mathematics (3 hours)**

MATH 1314	College Algebra
	Or
MATH 1332	Mathematics for Liberal Arts

**U.S. History (6 hours)**

HIST 1301	United States History I
HIST 1302	United States History II

**Government/Political Science (6 hours)**

POLS 2305	Federal Government
POLS 2306	Texas Government

**Public Speaking (3 hours)**

COMM 1315	Public Speaking
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**Social Behavioral Sciences (3 hours)**

Choose ONE course from the core approved list (p. 109).

**Creative Arts (3 hours)**

Choose ONE course from the core approved list (p. 109).

**Language Philosophy and Culture (3 hours)**

Choose ONE course from the core approved list (p. 109).

**Life and Physical Science (6 hours)**

Choose TWO courses from the core approved list (p. 109).

### **Additional Coursework (3 hours)**

PSYC 1100                      Learning Frameworks

Two 1-hour natural science labs - required co-requisites for the chosen science courses.

### **College of Human Sciences and Humanities (3 hours)**

48 hours of upper-level credit must be "C" or better.

### **Core Requirement**

WRIT 3307                      Advanced Writing

### **Major Requirements (39 hours)**

**Choose TWO Courses Designated by the Major (3300/4300 level).**

#### **Women's Studies Courses**

WMST 1301	Gender Matters
WMST 4308/HUMN	Introduction to Women's Studies
4308/PSYC 4308/SOCI	
4308	
WMST 4312	Women of Color
WMST 4372/HUMN	Seminar in Women's Studies
4372/HUMN	
5732/PSYC 4375/PSYC	
5732	

#### **Women's Studies Core**

**Choose FIVE courses from:**

ANTH 4341/SOCI	Gender and Sexuality in Global Perspectives
4341/WMST 4341	
HIST 3340	Women in European History
HIST 3341/WMST	Women in American History
3341	
HIST 4329/WMST	History of Feminism
4329	
LITR 4364	Women in Literature
WMST 4314	Latina Social Movements in the Americas
WMST 4316/SOCI	Women and the Law
4316	
WMST 4334	Psychology of Women
WMST 4335/SOCI	Women's Health and Sexuality
4367	

#### **Diversity Requirement-Global**

Choose ONE course from a designated list (p. 202) (3300/4300 level).

#### **Diversity Requirement-U.S.**

Choose ONE course from a designated list (p. 202) (3300/4300 level).

#### **Electives (36 hours)**

Electives must be chosen from ANTH, HUMN, PSYC, SOCI, and WMST.

15 hours may be chosen from 1300/2300/3300/4300 level courses.

21 hours must be chosen from 3300/4300 level courses.

## **WOMEN'S STUDIES CERTIFICATE**

Women's Studies is an interdisciplinary curriculum administered by the College of Human Sciences and Humanities. Women's 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 Studies supports majors in anthropology, history, humanities, literature, psychology, and sociology. Women's Studies courses fulfill major requirements in several of these areas.

To complete a certificate in Women's Studies, students should consult with the Director of Women's Studies.

### **Certificate Requirements (9 hours)**

Undergraduate: Nine hours of Women's Studies courses in any combination.

#### **One of the following courses is highly recommended:**

WMST 4308/HUMN 4308/PSYC 4308/SOCI 4308	Introduction to Women's Studies
WMST 4372/HUMN 4372/HUMN 5732/PSYC 4375/PSYC 5732	Seminar in Women's Studies

## **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.

### **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 (42 hours)**

#### **Communication (6 hours)**

WRIT 1301	Composition I
WRIT 1302	Composition II

#### **Mathematics (3 hours)**

MATH 1314	College Algebra
	Or
MATH 1332	Mathematics for Liberal Arts

#### **U.S. History (6 hours)**

HIST 1301	United States History I
HIST 1302	United States History II

#### **Government/Political Science (6 hours)**

POLS 2305	Federal Government
POLS 2306	Texas Government

#### **Public Speaking (3 hours)**

COMM 1315	Public Speaking
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#### **Social Behavioral Sciences (3 hours)**

Choose ONE course from the core approved list (p. 109).

**Creative Arts (3 hours)**

Choose ONE course from the core approved list (p. 109).

**Language Philosophy and Culture (3 hours)**

Choose ONE course from the core approved list (p. 109).

**Life and Physical Science (6 hours)**

Choose TWO courses from the core approved list (p. 109).

**Additional Coursework (3 hours)**

PSYC 1100                      Learning Frameworks

Two 1-hour natural science labs - required co-requisites for the chosen science courses.

**College of Human Sciences and Humanities (3 hours)**

48 hours of upper-level credit must be "C" or better.

**Core Requirement**

WRIT 3307                      Advanced Writing

**Major Requirements (42 hours)****Choose ONE of the following:**

HUMN 3374	Critical Inquiry
HUMN 3375	Ideas in Transition
LITR 3334	Mythology
PHIL 3331	Ethics
PHIL 4314	The Great Philosophers I
PHIL 4315	The Great Philosophers II

HUMN 3374 Critical Inquiry (p. 359) and HUMN 3375 Ideas in Transition (p. 359) are strongly recommended.

**Choose ONE from:**

ANTH 4372	Applied Qualitative Methods
PSYC 4371	Research Methods

ANTH 4372 Applied Qualitative Methods (p. 307) is strongly recommended.

**Choose ONE from:**

GEOG 4321	Fundamentals of Geographic Information Systems
PSYC 4370	Behavioral Statistics
SOCI 4384	Statistics

**Diversity Requirement**

Choose two courses from a designated list (p. 202) (3300/4300 level).

**Anthropology Course**

ANTH 3311	Contemporary Cultural Anthropology
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**Choose ONE of:**

SOCI 4312	Social Structure: Class, Power, and Status
SOCI 4322	Theories of Society

**Choose ONE of:**

PSYC 3331	Theories of Personality
PSYC 4311/SOCI 4311	Social Psychology

**Subject Requirements****Choose TWO from:**

ANTH 3352	Political/Economic Anthropology
ANTH 3361	Anthropology of Food
ANTH 3362	Medicine, Bodies, and Culture
ANTH 4301	Studies in Cultural Diversity
ANTH 4341/SOCI 4341	Gender and Sexuality in Global Perspectives
ANTH 4342	Human Rights and Social Justice

ANTH 4351/ANTH 5531/PSYC 5535/SOCI 5535	Families, Communities, and Globalization
ANTH 4352	World Prehistory and Archaeology
ANTH 4364	Visual Anthropology

## Area Requirement

### Choose TWO from:

ANTH 3355	Topics in Asian Studies
ANTH 3357	Topics in African Studies
ANTH 3358	Topics in Middle Eastern Societies
ANTH 4333	Peoples of Mexico and Central America
ANTH 4334	Native Americans

## Required Anthropology Electives

2 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
ANTH 3357	Topics in African Studies
ANTH 3358	Topics in Middle Eastern Societies
ANTH 4333	Peoples of Mexico and Central America
ANTH 4334	Native Americans
GEOG 1303	World Regional Geography
GEOG 4302	Geography of Latin America

### Latin American Studies

(Select THREE of the following courses.)

ANTH 4333	Peoples of Mexico and Central America
GEOG 4302	Geography of Latin America
HIST 4309	Studies in Latin American History
HIST 3319	Colonial Latin America
HIST 3321	Modern Latin America
HIST 3323	History of Mexico
WMST 4314	Latina Social Movements in the Americas

### Middle Eastern Studies

(Select THREE of the following courses.)

ANTH 3358	Topics in Middle Eastern Societies
ANTH 4330	Cultural Study Abroad
SOCI 4329	Egypt in Transition

ANTH 4330 Cultural Study Abroad (p. 306) when the topic is a Middle Eastern country.

### Women, Gender, and Sexuality

(Select THREE of the following courses.)

ANTH 4301	Studies in Cultural Diversity
ANTH 4341/SOCI 4341/WMST 4341	Gender and Sexuality in Global Perspectives
ANTH 4351/ANTH 5531/PSYC 5535/SOCI 5535	Families, Communities, and Globalization

WMST 4314 Latina Social Movements in the Americas  
 ANTH 4301 Studies in Cultural Diversity (p. 306) when the topic is Violence Against Women or Women of Color.

### **Social Justice**

(Select THREE of the following courses.)

ANTH 3361	Anthropology of Food
ANTH 3362	Medicine, Bodies, and Culture
ANTH 4301	Studies in Cultural Diversity
ANTH 4342	Human Rights and Social Justice

ANTH 4301 Studies in Cultural Diversity (p. 306) when the topic is Public Culture or Violence Against Women.

## **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 (42 hours)**

#### **Communication (6 hours)**

WRIT 1301	Composition I
WRIT 1302	Composition II

#### **Mathematics (3 hours)**

MATH 1314	College Algebra
	Or
MATH 1332	Mathematics for Liberal Arts

#### **U.S. History (6 hours)**

HIST 1301	United States History I
HIST 1302	United States History II

#### **Government/Political Science (6 hours)**

POLS 2305	Federal Government
POLS 2306	Texas Government

#### **Social Behavioral Sciences (3 hours)**

Choose ONE course from the core approved list.

#### **Public Speaking (3 hours)**

COMM 1315	Public Speaking
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#### **Life and Physical Science (6 hours)**

Choose TWO courses from the core approved list (p. 109).

#### **Language Philosophy and Culture (3 hours)**

Choose ONE course from the core approved list (p. 109).

#### **Creative Arts (3 hours)**

Choose ONE course from the core approved list (p. 109).

#### **Additional Coursework (3 hours)**

PSYC 1100	Learning Frameworks
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Two 1-hour natural science labs - required co-requisites for the chosen science courses.

## College of Human Sciences and Humanities (3 hours)

48 hours of upper-level credit must be "C" or better.

### Core Requirement

WRIT 3307                      Advanced Writing

## Major Requirements (42 hours)

### Choose ONE course from:

HUMN 3374	Critical Inquiry
HUMN 3375	Ideas in Transition
LITR 3334	Mythology
PHIL 3331	Ethics
PHIL 4314	The Great Philosophers I
PHIL 4315	The Great Philosophers II

### Statistics and Methods Requirement

#### Choose ONE course from:

CRIM 4384	Statistics
PSYC 4370	Behavioral Statistics
SOCI 4384	Statistics

#### Choose ONE course from:

ANTH 4372	Applied Qualitative Methods
CRIM 4385	Research Methods
PSYC 4371	Research Methods
SOCI 4385	Research Methods

### Diversity Requirement

Choose TWO diversity classes from the following list:

ANTH 3358	Topics in Middle Eastern Societies
ANTH 4301	Studies in Cultural Diversity
ANTH 4333	Peoples of Mexico and Central America
ANTH 4341/SOCI 4341/W MST 4341	Gender and Sexuality in Global Perspectives
CRIM 4335	Race and Justice
GEOG 4302	Geography of Latin America
PSYC 4334	Psychology of Women
PSYC 4349	Psychology of Latina/os in the U.S.
PSYC 4356/SOCI 4356	The Aging Experience
SOCI 3352	Urban Sociology
SOCI 4316/W MST 4316	Women and the Law
SOCI 4317	Race and the Law
SOCI 4355	Minorities in America
SWRK 4314	Diversity and Human Development Throughout the Life Cycle
SWRK 4324	Oppression, Diversity, and Social Justice
WMST 4308/HUMN 4308/PSYC 4308/SOCI 4308	Introduction to Women's Studies

### Choose THREE of the following courses:

ANTH 3311	Contemporary Cultural Anthropology
GEOG 4312	Human Geography
PSYC 3331	Theories of Personality
	Or
PSYC 4311/SOCI 4311	Social Psychology
SOCI 4312	Social Structure: Class, Power, and Status
	Or
SOCI 4322	Theories of Society

## 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 below.

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
ANTH 3352	Political/Economic Anthropology
ANTH 3355	Topics in Asian Studies
ANTH 3357	Topics in African Studies
ANTH 3358	Topics in Middle Eastern Societies
ANTH 3361	Anthropology of Food
ANTH 3362	Medicine, Bodies, and Culture
ANTH 4301	Studies in Cultural Diversity
ANTH 4334	Native Americans
ANTH 4341/SOCI 4341/W MST 4341	Gender and Sexuality in Global Perspectives
ANTH 4342	Human Rights and Social Justice
ANTH 4351/ANTH 5531/PSYC 5535/SOCI 5535	Families, Communities, and Globalization
ANTH 4352	World Prehistory and Archaeology
ANTH 4364	Visual Anthropology

### **Criminology Concentration**

CRIM 3312/SOCI 3312	Criminology
CRIM 4313/SOCI 4313	Juvenile Delinquency
CRIM 4331/SOCI 4331	Prison and Society
CRIM 4334/CRIM 5338/SOCI 4334/SOCI 5338	Criminal Law
CRIM 4338	Policing and Society

### **Geography Concentration**

GEOG 4300	Geography of the United States and Canada
GEOG 4302	Geography of Latin America
GEOG 4303	Geography of Texas
GEOG 4312	Human Geography
GEOG 4317	Introduction to Globalization

### **Psychology Concentration**

PSYC 3321	Learning
PSYC 3331	Theories of Personality
PSYC 4311/SOCI 4311	Social Psychology
PSYC 4314	Child Psychology
PSYC 4315	Adolescent Psychology
PSYC 4316	Brain and Behavior
PSYC 4382	Cognitive Psychology

### **Sociology Concentration**

SOCI 3312/CRIM 3312	Criminology
SOCI 3313	Urban and Rural Health
SOCI 3335/CRIM 3335	Deviance
SOCI 3351	Political Sociology
SOCI 3352	Urban Sociology
SOCI 4312	Social Structure: Class, Power, and Status
SOCI 4322	Theories of Society
SOCI 4323	Religion in Society
SOCI 4324	Organizations in Society
SOCI 4328/PSLD 4328	Social Conflict and Mediation
SOCI 4341/ANTH 4341/W MST 4341	Women in Society
SOCI 4355	Minorities in America
SOCI 4357	Sociology of Family, Work, and Gender
SOCI 4358	Family and Society
SOCI 4359	Family Policy



SOCI 4363	American Immigration and the Immigrant Experience
SOCI 4364	Medical Sociology
SOCI 4365	Sociology of Mental Health and Illness
SOCI 4367/WMST 4335	Women's Health and Sexuality

### **Social Work Concentration**

SWRK 4301	Introduction to Social Work
SWRK 4304	Issues and Ethics in Social Work
SWRK 4314	Diversity and Human Development Throughout the Life Cycle
SWRK 4317	Social Welfare Policy and Services
SWRK 4324	Oppression, Diversity, and Social Justice

### **Electives (33 hours)**

18 hours may be lower-level electives (any 1300/2300 level courses).

15 hours must be upper-level (any 3300/4300 level courses).

## **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 (42 hours)**

#### **Communication (6 hours)**

WRIT 1301	Composition I
WRIT 1302	Composition II

#### **Mathematics (3 hours)**

MATH 1314	College Algebra
	Or
MATH 1332	Mathematics for Liberal Arts

#### **Life and Physical Science (6 hours)**

Choose TWO courses from the core approved list.

#### **Language Philosophy and Culture (3 hours)**

Choose ONE course from the core approved list.

#### **U.S. History (6 hours)**

HIST 1301	United States History I
HIST 1302	United States History II

#### **Government/Political Science (6 hours)**

POLS 2305	Federal Government
POLS 2306	Texas Government

#### **Public Speaking (3 hours)**

COMM 1315	Public Speaking
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#### **Social Behavioral Sciences (3 hours)**

Choose ONE course from the core approved list (p. 109).

#### **Creative Arts (3 hours)**

Choose ONE course from the core approved list (p. 109).

#### **Additional Coursework (3 hours)**

PSYC 1100	Learning Frameworks
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Two 1-hour natural science labs - required co-requisites for the chosen science courses.

## College of Human Sciences and Humanities (3 hours)

48 hours of upper-level credit must be "C" or better.

### Core Requirement

WRIT 3307                      Advanced Writing

## Major Requirements (48 hours)

### Courses

ANTH 3311	Contemporary Cultural Anthropology
CRIM 1301	Introduction to Criminal Justice
CRIM 3312/SOCI 3312	Criminology
CRIM 4335	Race and Justice
CRIM 4313/SOCI 4313	Juvenile Delinquency
CRIM 4331/SOCI 4331	Prison and Society
CRIM 4334/CRIM 5338/SOCI 4334/SOCI 5338	Criminal Law
CRIM 4338	Policing and Society
CRIM 4384	Statistics
CRIM 4385	Research Methods
CRIM 4390	Contemporary Issues in Criminology
	CRIM Elective (any 3300/4300 CRIM course)
	CRIM Elective (any 3300/4300 CRIM course)
	CRIM Elective (any 3300/4300 CRIM course)
PSYC 4311/SOCI 4311	Social Psychology
	Or
PSYC 4351	Abnormal Psychology
SOCI 4312	Social Structure: Class, Power, and Status
	Or
SOCI 4322	Theories of Society

### Electives (27 hours)

Up to 15 hours could be lower-level electives (any 1300/2300 level courses)

12 hours must be upper-level (any 3300/4300 level courses)

## GEOGRAPHY B.S.

The Geography major offers two undergraduate degrees, a Bachelor of Science (p. 249) and a Bachelor of Science with Grades 7-12 Social Studies Certification (p. 250).

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 (p. 250) prepares future social studies teachers. In addition to a core of geography courses, the degree plan requires education courses that lead to certification.

## University Core (42 hours)

### Communication (6 hours)

WRIT 1301	Composition I
WRIT 1302	Composition II

### Mathematics (3 hours)

MATH 1314	College Algebra
	Or
MATH 1332	Mathematics for Liberal Arts

### **U.S. History (6 hours)**

HIST 1301	United States History I
HIST 1302	United States History II

### **Government/Political Science (6 hours)**

POLS 2305	Federal Government
POLS 2306	Texas Government

### **Life and Physical Science (6 hours)**

Choose TWO courses from the core approved list (p. 109). Accompanying lab must be taken in the same semester.

### **Component Area Option (6 hours)**

COMM 1315	Public Speaking
PSYC 1100	Learning Frameworks
Two 1-hr life or physical science labs - required co-requisites for the chosen science courses.	

### **Social Behavioral Sciences (3 hours)**

Choose ONE course from the core approved list (p. 109).

Cannot choose GEOG 1303 World Regional Geography (p. 347)

### **Language Philosophy and Culture (3 hours)**

Choose ONE course from the core approved list (p. 109).

### **Creative Arts (3 hours)**

Choose ONE course from the core approved list (p. 109).

## **College of Human Sciences and Humanities (3 hours)**

### **Core Requirement**

WRIT 3306	Writing for the Social Sciences
	Or
WRIT 3307	Advanced Writing
Advanced Writing - Grade of "B-" or better is required.	

## **Major Requirements (36 hours)**

**Any 3300/4300-level course chosen from ARTS, COMM, HIST, HUMN, LITR, PHIL, or WRIT**

### **Sociology Course**

SOCI 4384	Statistics
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### **Geography Courses**

GEOG 1301	Modern Physical Geography
GEOG 1303	World Regional Geography
GEOG 4300	Geography of the United States and Canada
GEOG 4301	Urban Geography
GEOG 4302	Geography of Latin America
GEOG 4303	Geography of Texas
GEOG 4312	Human Geography
GEOG 4317	Introduction to Globalization
GEOG 4321	Fundamentals of Geographic Information Systems
GEOG 4323	Advanced Geographic Information Systems

### **Electives (39 hours)**

Courses should be selected in consultation with faculty adviser.

## **GEOGRAPHY B.S. WITH GRADES 7-12 SOCIAL STUDIES CERTIFICATION**

*NOTE: This degree requires 127 credit hours.*

## University Core (42 hours)

### Communication (6 hours)

WRIT 1301	Composition I
WRIT 1302	Composition II

### Mathematics (3 hours)

Choose ONE course from the following:

MATH 1314	College Algebra
	Or
MATH 1332	Mathematics for Liberal Arts

### Life and Physical Science (6 hours)

Choose TWO courses from the core approved list (p. 109). Accompanying lab must be taken in the same semester.

### Language Philosophy and Culture (3 hours)

Choose ONE course from the core approved list (p. 109).

### Creative Arts (3 hours)

Choose ONE course from the core approved list (p. 109).

### U.S. History (6 hours)

HIST 1301	United States History I
HIST 1302	United States History II

### Government/Political Science (6 hours)

POLS 2305	Federal Government
POLS 2306	Texas Government

### Social Behavioral Sciences (3 hours)

Choose ONE course from the following:

ECON 2301	Principles of Macroeconomics
ECON 2302	Principles of Microeconomics

### Component Area Option (6 hours)

COMM 1315	Public Speaking Equivalent to SPCH 1315
PSYC 1100	Learning Frameworks Two 1-hr life or physical science labs - required co-requisites for the chosen science courses.

## College of Human Sciences and Humanities (6 hours)

48 hours of upper-level credit must be "C" or better.

**Any 3300/4300-level course chosen from ARTS, COMM, HIST, HUMN, LITR, PHIL, or WRIT**

### Core Requirement (3 hours)

WRIT 3304	Writing for Education
	Or
WRIT 3306	Writing for the Social Sciences
	Or
WRIT 3307	Advanced Writing

Grade of "B-" or better is required.

## College of Education Requirements (18 hours)

### Core Requirement

EDUC 4310	Theories of Educational Psychology
INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism
SPED 2301	Introduction to Special Populations
SPED 4300	Survey of Exceptionalities

TCED 1301 Exploring Teaching as a Profession

### **Teacher Education Program (TEP) Admission Requirements**

- Completion of 60 semester credit hours.
- Completion of prerequisite coursework (EDUC 4310 Theories of Educational Psychology (p. 342), INST 3313 Survey of Instructional Technologies (p. 362), and SILC 4315 Theories of American Pluralism (p. 395)).
- 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). (p. 177)

### **Major Requirements (46 hours)**

#### **Courses**

GEOG 1301	Modern Physical Geography
GEOG 1303	World Regional Geography
GEOG 4300	Geography of the United States and Canada
GEOG 4301	Urban Geography
GEOG 4302	Geography of Latin America
GEOG 4303	Geography of Texas
GEOG 4312	Human Geography
GEOG 4314	Teaching Geography
GEOG 4317	Introduction to Globalization
GEOG 4321	Fundamentals of Geographic Information Systems
HIST 2301	Texas History
	Two History Electives
LLS 4351	Reading in Content Subjects
TCED 4102	Core Subjects Teacher Seminar
TCED 4306	Creating Positive Learning Environments in 7-12

- GPA of 2.500 or higher required in GEOG and HIST coursework.

### **Pedagogy Requirements (15 hours)**

#### **Courses**

TCED 4361	Methods in Secondary Social Studies
TCED 4378	Pre-Service Internship I
TCED 4978	Pre-Service Internship II/Student Teaching

- Enrollment in the courses listed above requires admission to the TEP (p. 177).
- 3.000 GPA required in pedagogy coursework.
- TCED 4378 Pre-Service Internship I (p. 409) must be taken in the long semester immediately preceding the final semester.
- TCED 4978 Pre-Service Internship II (p. 410) must be taken in the final semester.

### **Teacher Certification Requirements**

- Passing scores on the appropriate state assessments (Texas Examinations of Educator Standards [TExES] (p. 138)) 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.

## **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 (42 hours)

### Communication (6 hours)

WRIT 1301	Composition I
WRIT 1302	Composition II

### Mathematics (3 hours)

MATH 1314	College Algebra
	Or
MATH 1332	Mathematics for Liberal Arts

### U.S. History (6 hours)

HIST 1301	United States History I
HIST 1302	United States History II

### Government/Political Science (6 hours)

POLS 2305	Federal Government
POLS 2306	Texas Government

### Public Speaking (3 hours)

COMM 1315	Public Speaking
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### Social Behavioral Sciences (3 hours)

Choose ONE course from the core approved list (p. 109).

### Creative Arts (3 hours)

Choose ONE course from the core approved list (p. 109).

### Language Philosophy and Culture (3 hours)

Choose ONE course from the core approved list (p. 109).

### Life and Physical Science (6 hours)

Choose TWO courses from the core approved list (p. 109).

### Additional Coursework (3 hours)

PSYC 1100	Learning Frameworks
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Two 1-hour natural science labs - required co-requisites for the chosen science courses.

## College of Human Sciences and Humanities (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 course from: (9 hours)

ANTH 3311	Contemporary Cultural Anthropology
CRIM 3312/SOCI 3312	Criminology
POLS 3301	Contemporary Issues in Political Science
PSYC 4311/SOCI 4311	Social Psychology
PSYC 3331	Theories of Personality

### Required (6 hours)

PSYC 4370	Behavioral Statistics
PSYC 4371	Research Methods

**PSL Core Coursework (39 hours)**

PSLD 4325	Budgeting in Public Service
PSLD 4326	Human Resources
PSLD 4341	Cultural Competence
PSLD 4342	Project Management
PSLD 4343	Public Service Management
PSLD 4344	Public Service Leadership
PSLD 4345	Strategic Planning
PSLD 4347	Managerial Issues in Diversity
PSLD 4348	Crisis Management
PSLD 4349	Ethics and Law
PSLD 4350	Senior Seminar: Executive Coaching
PSLD 4391	Selected Topics in Public Service Leadership
WRIT 3312	Written Communications in Business

**Electives (21 hours)**

21 hours of electives (any 1300, 2300, 3300, or 4300-level courses).

**PUBLIC SERVICE LEADERSHIP CERTIFICATE**

A certificate in Leadership in the Public Sector 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**

PSLD 4343	Public Service Management
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**and three of the following five classes:**

PSLD 4328/SOCI 4328	Social Conflict and Mediation
PSLD 4344	Public Service Leadership
PSLD 4345	Strategic Planning
PSLD 4347	Managerial Issues in Diversity
PSLD 4348	Crisis Management

**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 at-risk 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 (42 hours)****Communication (6 hours)**

WRIT 1301	Composition I
WRIT 1302	Composition II

**Mathematics (3 hours)**

MATH 1314	College Algebra
	Or
MATH 1332	Mathematics for Liberal Arts

**U.S. History (6 hours)**

HIST 1301	United States History I
HIST 1302	United States History II

**Government/Political Science (6 hours)**

POLS 2305	Federal Government
POLS 2306	Texas Government

**Public Speaking (3 hours)**

COMM 1315	Public Speaking
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**Social Behavioral Sciences (3 hours)**

Choose ONE course from the core approved list (p. 109).

**Creative Arts (3 hours)**

Choose ONE course from the core approved list (p. 109).

**Life and Physical Science (6 hours)**

Choose TWO courses from the core approved list (p. 109).

**Language Philosophy and Culture (3 hours)**

Choose ONE course from the core approved list (p. 109).

**Additional Coursework (3 hours)**

PSYC 1100	Learning Frameworks
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Two 1-hour natural science labs - required co-requisites for the chosen science courses.

**College of Human Sciences and Humanities (3 hours)**

48 hours of upper-level credit must be "C" or better.

**Core Requirement**

WRIT 3307	Advanced Writing
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**Major Requirements (54 hours)****Choose ONE course from:**

HUMN 3374	Critical Inquiry
HUMN 3375	Ideas in Transition
PHIL 3331	Ethics
PHIL 4314	The Great Philosophers I
PHIL 4315	The Great Philosophers II

**Diversity Requirement**

Choose two courses from a designated list (p. 202) (3300/4300 level).

**Choose ONE of:**

ANTH 3311	Contemporary Cultural Anthropology
ANTH 3361	Anthropology of Food
ANTH 3362	Medicine, Bodies, and Culture

**Choose ONE of:**

PSYC 3311	Careers and Writing in Psychology
PSYC 4311/SOCI 4311	Social Psychology
PSYC 4351	Abnormal Psychology

**Choose ONE of:**

SOCI 1301	Introduction to Sociology
SOCI 1306	Social Problems

**Two required overview courses:**

SOCI 4312	Social Structure: Class, Power, and Status
SOCI 4322	Theories of Society

**Two required methodology courses:**

SOCI 4384	Statistics
SOCI 4385	Research Methods

**Choose EIGHT of the following Core Course:**



SOCI 3312/CRIM 3312	Criminology
SOCI 3313	Urban and Rural Health
SOCI 3317/SOCI 5233	Religion and Immigration Studies in Houston
SOCI 3335/CRIM 3335	Deviance
SOCI 3351	Political Sociology
SOCI 3352	Urban Sociology
SOCI 4323	Religion in Society
SOCI 4324	Organizations in Society
SOCI 4328/PSLD 4328	Social Conflict and Mediation
SOCI 4335	Social Change and Social Movements
SOCI 4341/ANTH 4341/W MST 4341	Women in Society
SOCI 4355	Minorities in America
SOCI 4357	Sociology of Family, Work, and Gender
SOCI 4358	Family and Society
SOCI 4359	Family Policy
SOCI 4363	American Immigration and the Immigrant Experience
SOCI 4364	Medical Sociology
SOCI 4365	Sociology of Mental Health and Illness
SOCI 4367/W MST 4335	Women's Health and Sexuality

### **Electives (21 hours)**

Up to 12 hours could be lower-level electives (any 1300/2300 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/CRIM 3312	Criminology
SOCI 3335/CRIM 3335	Deviance
SOCI 3351	Political Sociology
SOCI 4332	Sociology of Law
SOCI 4335	Social Change and Social Movements

#### **Diversity Concentration**

Must complete three of the following courses with grades of "C" or higher:

SOCI 3317/SOCI 5233	Religion and Immigration Studies in Houston
SOCI 3352	Urban Sociology
SOCI 4355	Minorities in America
SOCI 4363	American Immigration and the Immigrant Experience

#### **Family Sociology Concentration**

Must complete three of the following courses with grades of "C" or higher:

ANTH 4351/ANTH 5531/PSYC 5535/SOCI 5535	Families, Communities, and Globalization
SOCI 4356/PSYC 4356	The Aging Experience
SOCI 4357	Sociology of Family, Work, and Gender
SOCI 4358	Family and Society
SOCI 4359	Family Policy

#### **Health and Medicine Concentration**

Must complete three of the following courses with grades of "C" or higher:

ANTH 3362	Medicine, Bodies, and Culture
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SOCI 3313	Urban and Rural Health
SOCI 4364	Medical Sociology
SOCI 4365	Sociology of Mental Health and Illness
SOCI 4367/WMST 4335	Women's Health and Sexuality

### **Legal Studies Concentration**

Must complete three of the following courses with grades of "C" or higher:

SOCI 4316/WMST 4316	Women and the Law
SOCI 4317	Race and the Law
SOCI 4328/PSLD 4328	Social Conflict and Mediation
SOCI 4332	Sociology of Law
SOCI 4335	Social Change and Social Movements

### **Urban Studies Concentration**

Must complete three of the following courses with grades of "C" or higher:

SOCI 3313	Urban and Rural Health
SOCI 3351	Political Sociology
SOCI 3352	Urban Sociology
SOCI 4335	Social Change and Social Movements
SOCI 4355	Minorities in America
SOCI 4363	American Immigration and the Immigrant Experience

### **Women's Studies Concentration**

Must complete three of the following courses with grades of "C" or higher:

SOCI 4308/HUMN 4308/PSYC 4308/WMST 4308	Introduction to Women's Studies
SOCI 4341/ANTH 4341/WMST 4341	Women in Society
SOCI 4367/WMST 4335	Women's Health and Sexuality
WMST 4312	Women of Color
WMST 4337/PSYC 4337	Violence Against Women

### **Work and Occupations Concentration**

Must complete three of the following courses with grades of "C" or higher:

SOCI 4311/PSYC 4311	Social Psychology
SOCI 4324	Organizations in Society
SOCI 4328/PSLD 4328	Social Conflict and Mediation
SOCI 4357	Sociology of Family, Work, and Gender

## **MINORS IN HSH**

### **MINOR IN AFRICANA STUDIES (15 HOURS)**

The minor in Africana studies at UHCL 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. 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 (rubrics) from among the HSH offerings below.

ANTH 3357 Topics in African Studies (p. 305)

ANTH 3358 Topics in Middle Eastern Studies (p. 305), when the topic is Islam in Africa

ANTH 4301 Studies in Cultural Diversity (p. 306), when the topic is African Diaspora in the Caribbean, Latin America, or Public Culture

CRIM 4335 Race and Justice (p. 334)

CRIM 4391 Selected Topics in Criminology (p. 334), when the topic is The Black Male

HIST 4315 Studies in African American History (p. 356), when the topic is Civil Rights Movement

HIST 4325 Studies in Middle Eastern History (p. 356), when the topic is The Middle East: From Colonial to Post-colonial Times

HUMN 3375 Ideas in Transition (p. 359), when the topic is Freedom

LITR 4338 American Minority Literature (p. 371), when the topic is African American women writers

POLS 4312 Race and Ethnic Politics (p. 389)

SOCI 4329 Egypt in Transition (p. 398)

SOCI 4355 Minorities in America (p. 399)

WMST 4312 Women of Color (p. 410)

## **MINOR IN ANTHROPOLOGY (15 HOURS)**

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.

ANTH 3311 Contemporary Cultural Anthropology (p. 305)

12 hours of Anthropology courses (with at least 9 hours at the 3300 or 4300 level) selected in consultation with the Anthropology minor adviser to address student interests and career plans.

## **MINOR IN ART AND DESIGN (15 HOURS)**

Students must complete five courses in studio with a “C-” or better for a minimum of 15 credit hours, including:

ARTS 1316 Drawing Foundations (p. 307)

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 3300/4300 level.

ARTS 2316 Painting (p. 307)

ARTS 3331 Intermediate Drawing (p. 307)

ARTS 3335 Intermediate Painting (p. 308)

ARTS 3340 Printmaking (p. 308)

ARTS 3352 Traditional Photography

ARTS 4301 Methods in Secondary Art Education (p. 309)

ARTS 4350 Advanced Photography (p. 310) (the prerequisite is ARTS 3352 Traditional Photography) (p. 308)

### 3-Dimensional Option

Choose four additional ARTS courses from the following list. Note: 9 hours must be at 3300/4300 level.

ARTS 3310 Sculpture (p. 307)

ARTS 3320 Ceramics (p. 307)

ARTS 3341 Fibers (p. 308)

ARTS 4311 Process Sculpture (p. 309) (the prerequisite is ARTS 3310 Sculpture (p. 307))

ARTS 4320 Advanced Ceramics (p. 309) (the prerequisite is ARTS 3320 Ceramics (p. 307))

### Graphic Option

Choose four additional ARTS courses from the following list. Note: 9 hours must be at 3300/4300 level.

ARTS 2371 Digital Photography (p. 307)

ARTS 3360 Graphic Design (p. 309)

ARTS 4351 Intermediate Photography (p. 311) (the prerequisite is ARTS 2371 Digital Photography (p. 307))

ARTS 4369 Digital Illustration (p. 311) (the prerequisite is ARTS 3360 Graphic Design (p. 309))

COMM 3360 Web Design (p. 331)

## MINOR IN ART HISTORY (15 HOURS)

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 (6 hours):

ARTS 1303 World Art Survey I (p. 307)

ARTS 1304 World Art Survey II (p. 307)

Students are encouraged to complete these requirements during the first 6 hours of work towards the minor. These foundational courses may be taken concurrently with electives.

Elective courses (9 hours):

Any Art History course at the 3300 and/or 4300 level selected in consultation with the minor adviser.

## MINOR IN BEHAVIOR ANALYSIS (15 HOURS)

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](http://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 course for the minor.

PSYC 3321 Learning (p. 392)

PSYC 4321 Applied Behavior Analysis I (p. 393)

PSYC 4322 Applied Behavior Analysis II (p. 393)

PSYC 4323 Research and Practice in Behavior Analysis (p. 393)

PSYC 4316 Brain and Behavior

or

PSYC 4327 Practicum in Applied Behavior Analysis (p. 394)

## **MINOR IN EXERCISE SCIENCE (15 HOURS)**

A minor in Exercise Science will require a student to take 15 hours from the Fitness & Human Performance program selected from the items below.

HLTH 3303 Nutrition & Weight Management

HLTH 3304 Principles of Physical Fitness

HLTH 4301 Physiology of Exercise (p. 357)

HLTH 4307 Peak Performance (p. 358)

or

HLTH 4308 Resistance Exercise: Theory and Practice (p. 358)

HLTH 4302 Biomechanics (p. 357)

or

HLTH 4305 Seminar Sports Medicine (p. 358)

## **MINOR IN GEOGRAPHY (15 HOURS)**

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 below. All courses for minor credit must be completed with a grade of "C" or better.

Required courses (12 hours):

GEOG 1301 Modern Physical Geography (p. 347)

GEOG 1303 World Regional Geography (p. 347)

GEOG 4312 Human Geography (p. 348)

GEOG 4321 Fundamentals of Geographic Information Systems (p. 348)

Elective courses (3 hours):

GEOG 4300 Geography of the United States and Canada (p. 347)

GEOG 4301 Urban Geography (p. 347)

GEOG 4302 Geography of Latin America (p. 347)

GEOG 4303 Geography of Texas (p. 347)

GEOG 4311 Historical Geography (p. 347)

GEOG 4317 Introduction to Globalization (p. 348)

GEOG 4322 Problems in Geographic Information Systems (p. 348)

GEOG 4323 Advanced Geographic Information Systems (p. 348)

## **MINOR IN GEOGRAPHIC INFORMATION SYSTEMS GIS (15 HOURS)**

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.

GEOG 4312 Human Geography (p. 348)

GEOG 4321 Fundamentals of Geographic Information Systems (p. 348)

GEOG 4322 Problems in Geographic Information Systems (p. 348)

GEOG 4323 Advanced Geographic Information Systems (p. 348)

ITEC 3335 Database Development (p. 365)

## **MINOR IN HEALTH PROMOTION (15 HOURS)**

A minor in Health Promotion will require a student to take 15 hours from the Fitness and Human Performance program as indicated below.

HLTH 3303 Nutrition & Weight Management

HLTH 3304 Principles of Physical Fitness

HLTH 3315 Health Promotion Programs (p. 357)

HLTH 3318 Introduction to Community Health (p. 357)

HLTH 3320 Health Inequalities (p. 357)

## **MINOR IN HISTORY (15 HOURS)**

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 that HIST 1301 United States History I (p. 353) and HIST 1302 United States History II (p. 353) do not count towards the minor. All courses for minor credit must be completed with a grade of "C" or better.

3 hours selected from the following:

HIST 2321 World Civilization I (p. 353)

HIST 2322 World Civilization II (p. 353)

12 hours selected from any HIST course at the 3300 or 4300 level

## **MINOR IN HUMANITIES (15 HOURS)**

A minor in Humanities develops students' critical thinking skills through careful analyses of works of literature, philosophy, art, and film.

HUMN 1301 Introduction to Humanities (p. 359)

HUMN 3375 Ideas in Transition (p. 359)

3 HUMN courses at the 3300 or 4300 level

Since HUMN 3375 is a topics class, it may be repeated for credit toward the minor when the topic varies.

Students are strongly encouraged to take HUMN 4375 Senior Seminar (p. 360) as one of their elective classes.

## **MINOR IN LATINA/O AND LATIN AMERICAN STUDIES (15 HOURS)**

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 2.0 grade point average for all courses applied to the minor is required.

Select ONE course (3 hours) from the following:

ANTH 4333 Peoples of Mexico and Central America (p. 306)

GEOG 4302 Geography of Latin America (p. 347)

HIST 3317 Introduction to Latin American History (p. 354)

PSYC 4349 Psychology of Latina/os in the U.S. (p. 394)

A course taken to satisfy the foundational requirement cannot also count as elective credit.

The foundational course may be taken concurrently with electives.

Select FOUR courses (12 hours) from the following:

ANTH 4333 Peoples of Mexico and Central America (p. 306)

ARTS 3355 Latin America Art of the Twentieth Century (p. 308)

ARTS 3356 Mexican Art, 1500-Present (p. 308)

GEOG 4302 Geography of Latin America (p. 347)

HIST 2301 Texas History (p. 353)

HIST 3317 Introduction to Latin American History (p. 354)

HIST 3319 Colonial Latin America (p. 354)

HIST 3321 Modern Latin America (p. 354)

HIST 3323 History of Mexico (p. 354)

HIST 4308 The Mexico Borderlands (p. 355)

HIST 4309 Studies in Latin American History (p. 355)

HIST 4310 Latin America and the United States (p. 355)

HUMN 3355 Latin American Art of the Twentieth Century (p. 359)

HUMN 3356 Mexican Art, 1500-Present (p. 359)

LLAS 2301 Topics in Latina/o and Latin American Studies, Humanities (p. 372)

LLAS 2302 Topics in Latina/o and Latin American Studies, Human Sciences (p. 372)

LLAS 4309 Topics in Latina/o and Latin American Studies (p. 373)

PSYC 4349 Psychology of Latina/os in the U.S. (p. 394)

SOCI 4363 American Immigration and the Immigrant Experience (p. 399)

SPAN 1311 Beginning Spanish I (p. 400)

SPAN 1312 Beginning Spanish II (p. 400)

SPAN 2311 Intermediate Spanish I (p. 401)

SPAN 2312 Intermediate Spanish II (p. 401)

## MINOR IN LITERATURE (15 HOURS)

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 2300-level. At least one course must be at the 4300-level. 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:

LITR 2321 British Literature (p. 369)

LITR 2326 American Literature (p. 369)

LITR 2341 Literature and Experience (p. 369)

American Literature – choose ONE of the following:

LITR 2326 American Literature (p. 369)

LITR 4328 The American Renaissance (p. 371)

LITR 4330 American Realism and Naturalism (p. 371)

LITR 4334 The American Novel (p. 371)

LITR 4335 American Modernism (p. 371)

LITR 4336 Contemporary American Literature (p. 371)

British Literature – choose ONE of the following:

LITR 2321 British Literature (p. 369)

LITR 4318 Restoration and 18<sup>th</sup> Century British Literature (p. 370)

LITR 4320 The Romantic Movement in British Literature (p. 370)

LITR 4321 Jane Austen (p. 370)

LITR 4322 Victorian Literature (p. 370)

LITR 4324 Rise and Development of the British Novel (p. 370)

Pre-1700 British Literature – choose ONE of the following:

LITR 3361 Shakespeare (p. 370)

LITR 4312 Chaucer (p. 370)

LITR 4316 16<sup>th</sup> and 17<sup>th</sup> Century British Literature (p. 370)

World / Multicultural literature – choose ONE of the following:

LITR 3334 Mythology (p. 370)

LITR 4326 Early American Literature (p. 371)

LITR 4338 American Minority Literature (p. 371)

LITR 4340 American Immigrant Literature (p. 371)

LITR 4342 Modern and Contemporary Drama (p. 371)

LITR 4344 The Modern Novel (p. 371)

LITR 4345 Contemporary Novel (p. 371)

LITR 4346 Medieval Literature (p. 371)



LITR 4350 Masterpieces of 19<sup>th</sup>-century European Literature (p. 371)

LITR 4352 Masterpieces of 20<sup>th</sup>-century European Literature (p. 372)

Elective courses in the minor (0-3 hours):

LITR 2341 Literature and Experience (p. 369)

LITR 3301 Literary Studies: Genres and Critical Perspectives (p. 369)

LITR 3371 Creative Writing (p. 370)

LITR 4301 Literary Theory (p. 370)

LITR 4304 Workshop in Poetics (p. 370)

LITR 4342 Modern and Contemporary Drama (p. 371)

LITR 4344 The Modern Novel (p. 371)

LITR 4345 Contemporary Novel (p. 371)

LITR 4350 Masterpieces of 19<sup>th</sup>-century European Literature (p. 371)

LITR 4352 Masterpieces of 20<sup>th</sup>-century European Literature (p. 372)

LITR 4356 Modern American and British Poetry (p. 372)

LITR 4358 Contemporary Poetry (p. 372)

LITR 4360 Film as Literature (p. 372)

LITR 4362 The Literature of Adolescence (p. 372)

LITR 4364 Women in Literature (p. 372)

LITR 4366 Literature and Religion (p. 372)

LITR 4368 Literature of the Future (p. 372)

LITR 4370 Tragedy (p. 372)

LITR 4371 Comedy (p. 372)

## MINOR IN MIDDLE EASTERN STUDIES (15 HOURS)

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 Studies minor adviser.

Students must take coursework in at least two different disciplines.

ANTH 3357 Topics in African Studies (p. 305)

ANTH 3358 Topics in Middle Eastern Studies (p. 305), when the topic is Islam in Africa, Gender, Media, and Diplomacy in the Arab World, or Peoples and Cultures of the Middle East

ANTH 4303 Islam in America

HIST 4313 Studies in U.S. History (p. 356), when the course is Islam, The Middle East and the USA, The Iraq War in Film

HIST 4325 Studies in Non-Western History (p. 356), when the topic is The Middle East from Colonialism to Post-Colonialism, The Modern Middle East, or Israeli-Palestine Conflict

HUMN 4326 Studies in Film (p. 360), when the topic is the Iraq War in Film

SOCI 4329 Egypt in Transition (p. 398)

SOCI 4363 American Immigration and the Immigrant Experience (p. 399)

WMST 4312 Women of Color (p. 410), when the topic is Gender, Media, and Diplomacy in the Arab World, Peoples and Cultures of the Middle East, Islam in Africa, or Islam and America

This minor will be available pending approval for Fall 2016.

## **MINOR IN PHILOSOPHY (15 HOURS)**

The minor in philosophy provides an introduction to the topics of philosophy and training in the basic skills of philosophical thinking.

Required Course (3 hours):

PHIL 1301 Introduction to Philosophy (p. 385)

Elective course (12 hours):

4 PHIL courses at the 3300 or 4300 level

## **MINOR IN PUBLIC SERVICE LEADERSHIP (15 HOURS)**

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 or 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 (p. 390)

PSLD 4344 Public Service Leadership (p. 391)

Elective courses in the minor (9 hours):

PSLD 4345 Strategic Planning (p. 391)

PSLD 4347 Managerial Issues in Diversity (p. 391)

PSLD 4348 Crisis Management (p. 391)

PSLD 4349 Ethics and Law (p. 391)

## **MINOR IN SOCIOLOGY (15 HOURS)**

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 (3 hours):

SOCI 4322 Theories of Society (p. 398)

One course (3 hours) from the following list:

SOCI 1301 Introduction to Sociology (p. 396)

SOCI 1306 Social Problems (p. 396)

SOCI 3335 Deviance (p. 396)

SOCI 4341 Women in Society (p. 398)

SOCI 4355 Minorities in America (p. 399)

SOCI 4358 Family and Society (p. 399)

Elective courses (9 hours):

3 SOCI courses at the 3300- and/or 4300-level

## **MINOR IN YOUTH AND POLICE STUDIES (15 HOURS)**

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 course at the University of Houston-Clear Lake.

Required courses (15 hours):

CRIM 1301 Introduction to Criminal Justice (p. 333)

CRIM 4313 Juvenile Delinquency (p. 333)

CRIM 4338 Policing and Society (p. 334)

CRIM 4391 Selected Topics in Criminology (p. 334)

PSYC 4315 Adolescent Psychology (p. 393)

Note: CRIM 4391 may be taken for minor credit only when the topic is “Youth, Law, and Society.”

## **MINOR IN WRITING (15 HOURS)**

A minor in 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. Prerequisites for all courses in the minor include the completion of WRIT 1301 Composition I (p. 411) and WRIT 1302 Composition II (p. 411) with a grade of “C-” or better and junior-level standing.

Elective courses in the minor (15 hours):

WRIT 3304 Writing for Education (p. 412)

WRIT 3305 Writing for the Humanities (p. 412)

WRIT 3306 Writing for the Social Sciences (p. 412)

WRIT 3307 Advanced Writing (p. 412)

WRIT 3312 Written Communication in Business (p. 412)

WRIT 3315 Technical Writing (p. 412)

WRIT 4391 Selected Topics in Writing (p. 413)

# 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 school prepare graduates to enter fields in natural sciences, mathematics, computing and computer engineering. Individuals in the school'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 school 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.

The College of Science and Engineering has five departments:

- Computing Sciences
- Engineering
- Physical and Applied Sciences
- Biological and Environmental Sciences
- Mathematics and Statistics

The faculty of each division aspires to a professional model that includes balance among the components of the CSE mission: teaching, research and service.

The Division Chair of Computing and Mathematics coordinates the plans in Computer Information Systems, Computer Science, Information Technology and Mathematical Science. 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 Division Chair of Engineering coordinates the plans in Computer Engineering. Support areas include telecommunications, robotics, control systems, industrial modeling, mathematical modeling and petrochemical processes. The undergraduate degree plan in Computer Engineering is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>

The Division Chair of Natural Sciences coordinates the plans in Biological Sciences, Biotechnology, Chemistry, Environmental Science and Physics. Sub-plans or specialization areas include physiology/pre-health, cell/molecular, ecology/microbiology, biotechnology, environmental chemistry, environmental geology, environmental biology, industrial hygiene, safety and engineering physics. 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>

## STANDARDS AND REQUIREMENTS FOR DEGREES IN THE COLLEGE OF SCIENCE AND ENGINEERING

### ADMISSION INTO A 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.

## COMPUTING SCIENCES DEPARTMENT

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.

### 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 computer-based 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.

#### Computer Science: 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. 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.

### Major Requirements

Required minimum for all Major Requirements is "C-".

CHEM 1311	General Chemistry I
CHEM 1111	Laboratory for General Chemistry I
PHYS 2325	University Physics I
PHYS 2125	Laboratory for University Physics I
PHYS 2326	University Physics II
PHYS 2126	Laboratory for University Physics II
MATH 2305	Discrete Mathematics
MATH 2318	Linear Algebra
MATH 2413	Calculus I
MATH 2414	Calculus II
MATH 2320	Differential Equations
STAT 3334	Probability and Statistics for Scientists and Engineers
CSCI 1470	Computer Science I
CSCI 1471	Computer Science II
CSCI 2315	Data Structures
CSCI 3321	Numerical Methods
CSCI 3331	Computer Organization and Assembly Language
CSCI 3352	Advanced Data Structures and Algorithms
CSCI 4333	Design of Database Systems
CSCI 4354	Operating Systems
CSCI 4388	Senior Project in Computer Science
CENG 3312	Digital Circuits
CENG 3112	Laboratory for Digital Circuits
CENG 3331	Introduction to Telecommunications and Networks
CENG 3131	Laboratory for Telecommunications and Networks
CENG 3351	Computer Architecture
CENG 3151	Laboratory for Computer Architecture
SWEN 4342	Software Engineering
WRIT 3315	Advanced Technical Writing

### Major Electives (12 hours)

CSCI/CINF Approved upper-level electives.

## COMPUTER SCIENCE SCHOLARS PLAN-LINKED B.S.-M.S. DEGREE PLANS IN COMPUTER SCIENCE

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 I&II, CS I, CS II, 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.

## **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.

### **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.

## Major Requirements

Students must meet these core requirements or approved upper-level substitutes.

ITEC 3312	Introduction to Scripting
ITEC 3335	Database Development
ITEC 3351	Web Fundamentals
ITEC 3365	Network Fundamentals
ITEC 3381	Forensics Fundamentals
ITEC 4313	Emerging Information Technology
ITEC 4342	Information Technology Project Management
ITEC 4379	Internship in Information Technology
ITEC 4388	Senior Project in Information Technology
CSCI 3303	Fundamentals of Programming
CINF 3321	Information Systems Theory and Practice
MGMT 3301	Management Theory and Practice
MGMT 3313	Organizational Communication
WRIT 3315	Advanced Technical Writing
MATH 1342	Elementary Statistical Methods
	Or
STAT 3308	Computational Statistics

Note: 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.

## Major Electives (18 hours)

9 hours of Specialization electives  
Approved 9 hours of major electives

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.

## Information Technology Specialization

Students must select one of the following three specializations in Information Technology (IT).

### Forensics Specialization

Students interested in Computer Forensics must take the following three courses:

ITEC 4381	Computer Forensics
ITEC 4382	Registry & Internet Forensics
CRIM 4330	Criminal Investigation

### Web Design and Development Specialization

Students interested in Web Design and Development must take the following three courses:

ITEC 4351	Web Design
ITEC 4352	Backend Web Development
ISAM 4331	Introduction to Business Internet Applications Development

### Information Technology Management and Administration Specialization

Students interested in Information Technology Management and Administration must take:

CSCI 4364 Computer Systems Administration

In addition, they must take two of the following three classes:

ITEC 4335	Database Administration
ITEC 4365	Network Administration
ITEC 4366	IT Security & Disaster Recovery

Courses noted on the CPS as Major Requirements, Major Electives and IT Specialization must be completed with a grade of "C-" or better.

## 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. 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.

### Major Requirements

Required minimum grade for all Major Requirements is "C-".

ACCT 2301	Principles of Accounting I - Financial
CINF 1370	Introduction to Computer Information Systems
CINF 3321	Information Systems Theory and Practice
CINF 3331	Business Data Communications
CINF 4320	Web Application Development
CINF 4324	Modern System Analysis and Design
CINF 4364	Computer Systems Administration
CINF 4388	Senior Project in Computer Information Systems
CSCI 1470	Computer Science I
CSCI 1471	Computer Science II
CSCI 2315	Data Structures
CSCI 4333	Design of Database Systems
DSCI 3331	Quantitative Methods for Management
ECON 2302	Principles of Microeconomics
ITEC 4342	Information Technology Project Management
	Or
ITEC 4313	Emerging Information Technology
MATH 1325	Business Calculus
MATH 2305	Discrete Mathematics
MGMT 3301	Management Theory and Practice
STAT 3308	Computational Statistics

SWEN 4342	Software Engineering
WRIT 3312	Written Communications in Business
WRIT 3315	Advanced Technical Writing

### Major Electives (16 hours)

6 hours Approved Business electives, excluding ISAM

6 hours Approved CINF/CSCI electives

4 hours 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#
CINF 4334	Electronic Commerce

### 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
CSCI 4312	Network Protocols
CSCI 4354	Operating Systems
CINF 4323	Computer Security

### Telecommunications Specialization

Students interested in Telecommunications should consider the following as electives:

CSCI 4312	Network Protocols
CENG 4321	Telecommunications Switching Systems
CENG 4311	Telecommunications Networking Devices

## MATHEMATICS AND STATISTICS DEPARTMENT

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.

### MATHEMATICAL SCIENCE B.A./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.

### Mathematical Science B.A. Degree

#### Major Requirements

Required minimum for all Major Requirements is "C-".

MATH 2412	Pre-Calculus Mathematics
MATH 2413	Calculus I
MATH 2414	Calculus II
MATH 2315	Calculus III
CSCI 1318	Pascal Programming I
	Or
CSCI 1320	C Programming
	Or

CSCI 3331	Computer Organization and Assembly Language
MATH 2318	Linear Algebra
MATH 2320	Differential Equations
MATH 3300	Introduction to Modern Algebra and Number Theory
MATH 3312	Number Theory
MATH 4344	Introduction to Probability
	Or
STAT 4344	Introduction to Probability
WRIT 3315	Advanced Technical Writing

## 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.

## Major Electives (9 hours)

Required minimum for all Major Electives is "C-". Three upper level MATH/STAT classes which must be selected from the following list:

MATH 3301	History of Mathematical Sciences
MATH 3331	Advanced Calculus
MATH 4315	Numerical Analysis and its Applications
MATH 4316	Mathematic Software Applications
MATH 4321	Predicate Logic
MATH 4322	Introduction to Abstract Algebra
MATH 4325	Theory of Models and Applications
MATH 4345	Introduction to Statistics
	Or
MATH 4346	Probability for Actuarial Exam P1
STAT 4345	Introduction to Statistics
	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

## 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.S. Degree

### Major Requirements

Required minimum for all Major Requirements is "C-".

MATH 2412	Pre-Calculus Mathematics
MATH 2413	Calculus I
MATH 2414	Calculus II
MATH 2315	Calculus III
MATH 2318	Linear Algebra
MATH 2320	Differential Equations
MATH 3331	Advanced Calculus
MATH 4316	Mathematic Software Applications
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

CSCI 3311  
WRIT 3315

Or  
Programming With Visual Basic  
Advanced Technical Writing

## 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.

## Major Electives (9 hours)

Required minimum for all Major Electives is "C-". Three upper level MATH classes which must be selected from the following list:

MATH 3312	Number Theory
MATH 4313	Introduction to Topology
MATH 4315	Numerical Analysis and its Applications
MATH 4321	Predicate Logic
MATH 4322	Introduction to Abstract Algebra
MATH 4325	Theory of Models and Applications
MATH 4341	Introduction to Analysis
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
MATH 4363	Functions of a Complex Variable

## 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.

## 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.

## **UHCL MATHEMATICS 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:
  - a) 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.

## **PHYSICAL AND APPLIED SCIENCES DEPARTMENT**

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.

## CHEMISTRY B.A./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 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.

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.A. 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 the University Core, the Major Requirements below are still necessary for graduation and substitutions are not accepted.

### Major Requirements

Required minimum for all Major Requirements is "C-".

CHEM 1111	Laboratory for General Chemistry I
CHEM 1112	Laboratory for General Chemistry II
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II
CHEM 2101	Laboratory for Analytical Chemistry I
CHEM 2102	Laboratory for Analytical Chemistry II
CHEM 2123	Laboratory for Organic Chemistry I
CHEM 2125	Laboratory for Organic Chemistry II
CHEM 2301	Analytical Chemistry I
CHEM 2302	Analytical Chemistry II
CHEM 2323	Organic Chemistry I
CHEM 2325	Organic Chemistry II
CHEM 3320	Survey of Physical Chemistry
CHEM 4235	Advanced Lab for Inorganic Chemistry
CHEM 4310	Advanced Chemical Calculations
CHEM 4335	Inorganic Chemistry
CHEM 4367	Instrumental Analysis
CHEM 4371	Advanced Spectroscopic Analysis
CHEM 4372	Chemistry Seminar
CHEM 4373	Quantitative Chemical Analysis
CHEM 4368	Advanced Organic Chemistry
MATH 2413	Calculus I
PHYS 1101	Laboratory for College Physics I

PHYS 1102	Laboratory for College Physics II
PHYS 1301	College Physics I
PHYS 1302	College Physics II
WRIT 3315	Advanced Technical Writing

### 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 3303	Nutrition and Food Chemistry
CHEM 3333	Environmental Chemistry
CHEM 4189	Independent Study in Chemistry
CHEM 4251	Laboratory for Environmental Analysis
CHEM 4311	Chemical Origins
CHEM 4312	Principles of Astrobiochemistry
CHEM 4315	Handedness in Science
CHEM 4341	Biochemistry I
CHEM 4355	Environmental Sampling and Monitoring
CHEM 4363	Forensic Chemistry
CHEM 4365	Introduction to Polymer Chemistry
CHEM 4376	Introduction to Petroleum Chemistry
CHEM 4389	Independent Study in Chemistry
CHEM 4391	Selected Topics in Chemistry

## 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.

### Major Requirements

Required minimum for all Major Requirements is "C-".

CHEM 1111	Laboratory for General Chemistry I
CHEM 1112	Laboratory for General Chemistry II
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II
CHEM 2101	Laboratory for Analytical Chemistry I
CHEM 2102	Laboratory for Analytical Chemistry II
CHEM 2123	Laboratory for Organic Chemistry I
CHEM 2125	Laboratory for Organic Chemistry II
CHEM 2301	Analytical Chemistry I
CHEM 2302	Analytical Chemistry II
CHEM 2323	Organic Chemistry I
CHEM 2325	Organic Chemistry II
CHEM 4222	Laboratory for Physical Chemistry
CHEM 4235	Advanced Lab for Inorganic Chemistry
CHEM 4310	Advanced Chemical Calculations
CHEM 4321	Physical Chemistry I
CHEM 4322	Physical Chemistry II
CHEM 4335	Inorganic Chemistry
CHEM 4341	Biochemistry I
CHEM 4365	Introduction to Polymer Chemistry
CHEM 4367	Instrumental Analysis
CHEM 4368	Advanced Organic Chemistry
CHEM 4371	Advanced Spectroscopic Analysis
CHEM 4372	Chemistry Seminar
CHEM 4373	Quantitative Chemical Analysis
CHEM 4379	Undergraduate Research in Chemistry
MATH 2413	Calculus I
MATH 2414	Calculus II
PHYS 2125	Laboratory for University Physics I

PHYS 2126	Laboratory for University Physics II
PHYS 2325	University Physics I
PHYS 2326	University Physics II
WRIT 3315	Advanced Technical Writing

### 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 3303	Nutrition and Food Chemistry
CHEM 3333	Environmental Chemistry
CHEM 4189	Independent Study in Chemistry
CHEM 4251	Laboratory for Environmental Analysis
CHEM 4312	Principles of Astrobiology
CHEM 4315	Handedness in Science
CHEM 4342	Biochemistry II
CHEM 4355	Environmental Sampling and Monitoring
CHEM 4363	Forensic Chemistry
CHEM 4376	Introduction to Petroleum Chemistry
CHEM 4389	Independent Study in Chemistry
CHEM 4391	Selected Topics in Chemistry

## CHEMISTRY B.S. DEGREE: SPECIALIZATION AREAS

### 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.

### Chemistry: Forensic Chemistry Specialization

#### Specialization Requirements

BIOL 4335	Forensic Biology
CHEM 4363	Forensic Chemistry
CRIM 4330	Criminal Investigation

### Chemistry: Petrochemical and Process Chemistry Specialization

#### Specialization Requirements

CHEM 4357	Introduction to Biofuel
CHEM 4358	Industrial Chemistry: Process and Environment
CHEM 4365	Introduction to Polymer Chemistry
CHEM 4374	Surface Chemical Processing

### Chemistry: Medicinal Chemistry for Pre-Health Professional Specialization

#### Specialization Requirements

CHEM 4328	Introduction to Medicinal Chemistry
CHEM 4359	Drug Design and Synthesis
CHEM 4360	Bio-organic and Medicinal Chemistry

## 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.

## **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.

## Physics Requirements for the B.S. Degree

### 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 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.

### Major Requirements

Students seeking a B.S. degree in the Physics should complete the following requirements:

CHEM 1111	Laboratory for General Chemistry I
CHEM 1112	Laboratory for General Chemistry II
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II
MATH 2315	Calculus III
MATH 2413	Calculus I
MATH 2414	Calculus II
PHYS 2125	Laboratory for University Physics I
PHYS 2126	Laboratory for University Physics II
PHYS 2325	University Physics I
PHYS 2326	University Physics II
PHYS 3103	Laboratory for Modern Physics
PHYS 3303	Modern Physics
PHYS 3311	Mathematical Methods for Physics and Engineering I
PHYS 3312	Mathematical Methods for Physics and Engineering II
PHYS 3321	Intermediate Mechanics
PHYS 3331	Intermediate Electromagnetism
PHYS 3342	Quantum Theory
PHYS 3351	Thermodynamics & Statistical Mechanics
PHYS 4371	Undergraduate Physics Research
PHYS 4372	Research Seminar
WRIT 3315	Advanced Technical Writing

Demonstrated knowledge of a Programming Language: (e.g., Visual Basic, Matlab, C, C++, or Fortran)

### Specialization Electives (28 hours)

Choose one of the following:

#### Physics without Specialization

(12 hours) Science, Mathematics or Engineering courses.

(16 hours) Upper-level (3000-4000) electives approved by faculty adviser.

#### Engineering Physics Specialization (28 hours)

CENG 3264	Engineering Design and Project Management
CENG 3312	Digital Circuits
CENG 3112	Laboratory for Digital Circuits
CENG 3313	Linear Circuits
CENG 3113	Laboratory for Linear Circuits
PHYS 4322	Statics and Mechanics of Materials
PHYS 4352	Fluids and Heat Transfer
SENG 4310	Introduction to Systems Engineering

(9 hours) Upper-level (3000-4000) electives approved by faculty adviser.

## 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:

- 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.

## ENGINEERING DEPARTMENT

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.

## 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.

The culminating experience for a student in this plan is CENG 4265/CENG 4266 Senior Projects. The mission of the Computer Engineering plan 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. There is an emphasis on microcomputer-based embedded systems. The curriculum includes specializations in software engineering and telecommunications.

The Program Educational Objectives (PEO) of the Computer Engineering program are:

- as practicing engineers, shall apply core knowledge (mathematics, science and engineering) to specify, design, develop, and test computer systems, including the ability to work effectively on multidisciplinary teams and to communicate effectively to achieve objectives.
- as practicing engineers, shall have demonstrated the capability to solve engineering problems, using modern tools and techniques, drawn from a range of technical specialties (telecommunications and networking, digital controls and real-time systems) that are consistent with the needs of our industrial constituents and the expertise of the faculty.
- as practicing engineers, shall exercise professional and ethical responsibilities.
- as practicing engineers, shall successfully demonstrate the mastery of higher order thinking skills including quantitative and qualitative analysis, synthesis and evaluation of information, argumentation, problem solving and creativity.
- serve communities, make significant contributions to society and consider the impact of engineering solutions in a global and societal context.
- participate in lifelong learning experiences in the professional 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. The courses listed below (or equivalent courses as approved by the departmental academic adviser) are considered the Lower-Level Core (LLC) for Computer Engineering and must be completed with a grade of C- or better and a cumulative GPA of 2.5 or higher:

CSCI 1320, CSCI 3314, 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 Engineering or Computer Science courses after successfully completing the Computer Engineering LLC. Admission to upper-level status will be granted to students who successfully complete the Computer Engineering 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.

## 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. 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.

## Major Requirements

Required minimum for all Major Requirements is "C-".

CHEM 1311	General Chemistry I
CHEM 1111	Laboratory for General Chemistry I
PHYS 2325	University Physics I
PHYS 2125	Laboratory for University Physics I
PHYS 2326	University Physics II
PHYS 2126	Laboratory for University Physics II
MATH 2413	Calculus I
MATH 2414	Calculus II
MATH 2315	Calculus III
MATH 2318	Linear Algebra
MATH 2320	Differential Equations
MATH 2305	Discrete Mathematics
STAT 3334	Probability and Statistics for Scientists and Engineers
CSCI 1320	C Programming
CSCI 2315	Data Structures
CENG 3312	Digital Circuits
CENG 3112	Laboratory for Digital Circuits
CENG 3313	Linear Circuits
CENG 3113	Laboratory for Linear Circuits
CENG 3314	Advanced Linear Circuits
CENG 3114	Laboratory for Advanced Linear Circuits
CENG 3331	Introduction to Telecommunications and Networks
CENG 3131	Laboratory for Telecommunications and Networks
CENG 3351	Computer Architecture
CENG 3151	Laboratory for Computer Architecture
CENG 3264	Engineering Design and Project Management
CENG 3371	Microcontroller Programming
CENG 4313	Microprocessor Interfacing
CENG 4113	Laboratory for Microprocessor Interfacing
CENG 4331	Analysis and Design of Linear Systems
CENG 4354	Digital System Design
CENG 4265	Senior Project
CENG 4266	Senior Project
SENG 4310	Introduction to Systems Engineering
SWEN 4342	Software Engineering

## Major Electives (9 hours)

Approved upper level CENG/CSCI are required.

CENG 3315	Introduction to Digital Signal Processing
CENG 3115	Laboratory for Introduction Digital Signal Processing
CENG 4311	Telecommunications Networking Devices
CENG 4321	Telecommunications Switching Systems
CSCI 4312	Network Protocols

## PRE-ENGINEERING

By enrolling in a pre-engineering program at UHCL, student will have the opportunity to explore five different engineering degree 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. While in Pre-Engineering, students will also enroll in typical university core curriculum and foundational curriculum courses. After completing the coursework, student may apply for admission to the University of Houston Cullen College of Engineering upon satisfaction of UH transfer admission standards. These students may also retain the option to stay at UHCL, and obtain an

Engineering degree from UHCL or transfer to any other university in the country.

## Pre-Engineering Requirements

### Requirements

These programs require 64-68 hours based on specialization. Programs include University Core requirements and lower level 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.

Pre-engineering programs are intended for freshmen (First time in College), freshmen transfer students and current University students. Current university students wishing to join the Pre-engineering program must have a 3.0 cumulative GPA and 3.0 Math GPA.

### Transfer to University of Houston

Students who complete their first two years at UHCL will be guaranteed acceptance to Engineering programs at UH-Main if they meet the following admissions criteria:

Math GPA 3.0 or better

Science GPA 3.0 or better

English GPA 2.5 or better

Cumulative GPA 3.0 or better

Engineering GPA 3.0 or better

Note: The above GPA requirements for UH-Main 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-Main will have an option to transfer to other universities or continue their education at UHCL. For first time in college (FTIC) students, all Math, Science and Engineering courses must be taken at UHCL. For all transferring students or current students changing majors, the remainder of coursework must be taken at UHCL.

## Pre-Engineering Specialization in Chemical Engineering

### Semester 1 (17 credits)

WRIT 1301	Composition I
HIST 1301	United States History I
ENGR 1201	Introduction to Engineering
CHEM 1311	General Chemistry I
CHEM 1112	Laboratory for General Chemistry II
MATH 2413	Calculus I
PSYC 1100	Learning Frameworks

### Semester 2 (18 credits)

WRIT 1302	Composition II
CHEM 1312	General Chemistry II
CHEM 1112	Laboratory for General Chemistry II
COMM 1315	Public Speaking
PHYS 2325	University Physics I
PHYS 2125	Laboratory for University Physics I
MATH 2414	Calculus II

### Semester 3 (17 credits)

POLS 2305	Federal Government
PHYS 2326	University Physics II
PHYS 2126	Laboratory for University Physics II
MATH 2315	Calculus III
CHEM 2323	Organic Chemistry I
CHEM 2123	Laboratory for Organic Chemistry I
STAT 3334	Probability and Statistics for Scientists and Engineers

**Semester 4 (16 credits)**

POLS 2306	Texas Government
MENG 2334	Thermodynamics I
MATH 2320	Differential Equations
CHEM 2325	Organic Chemistry II
CHEM 2125	Laboratory for Organic Chemistry II
HIST 1302	United States History II

**Pre-Engineering Specialization in Civil Engineering****Semester 1 (17 credits)**

WRIT 1301	Composition I
HIST 1301	United States History I
ENGR 1201	Introduction to Engineering
CHEM 1311	General Chemistry I
CHEM 1111	Laboratory for General Chemistry I
MATH 2413	Calculus I
PSYC 1100	Learning Frameworks

**Semester 2 (17 credits)**

WRIT 1302	Composition II
ENGR 1304	Engineering Graphics I
COMM 1315	Public Speaking
PHYS 2325	University Physics I
PHYS 2125	Laboratory for University Physics I
MATH 2414	Calculus II

**Semester 3 (16 credits)**

POLS 2305	Federal Government
PHYS 2326	University Physics II
PHYS 2126	Laboratory for University Physics II
MATH 2315	Calculus III
MENG 2301	Statics
CSCI 1370	Software Development with Java

**Semester 4 (16 credits)**

POLS 2306	Texas Government
GEOL 1303	Physical Geology
GEOL 1103	Laboratory for Physical Geology
MATH 2320	Differential Equations
HIST 1302	United States History II
MENG 2302	Dynamics

**Pre-Engineering Specialization in Electrical Engineering****Semester 1 (17 credits)**

WRIT 1301	Composition I
HIST 1301	United States History I
ENGR 1201	Introduction to Engineering
CHEM 1311	General Chemistry I
CHEM 1111	Laboratory for General Chemistry I
MATH 2413	Calculus I
PSYC 1100	Learning Frameworks

**Semester 2 (17 credits)**

WRIT 1302	Composition II
CSCI 1370	Software Development with Java
	Or
CSCI 1320	C Programming
COMM 1315	Public Speaking
PHYS 2325	University Physics I
PHYS 2125	Laboratory for University Physics I
MATH 2414	Calculus II

**Semester 3 (17 credits)**

POLS 2305	Federal Government
PHYS 2326	University Physics II
PHYS 2126	Laboratory for University Physics II

MATH 2315	Calculus III
EENG 2305	Electrical Circuits I
EENG 2105	Lab for Electrical Circuits I
MATH 2305	Discrete Mathematics

### Semester 4 (13 credits)

POLS 2306	Texas Government
CENG 3312	Digital Circuits
CENG 3112	Laboratory for Digital Circuits
MATH 2320	Differential Equations
MATH 2318	Linear Algebra

## Pre-Engineering Specialization in Industrial Engineering

### Semester 1 (17 credits)

WRIT 1301	Composition I
HIST 1301	United States History I
ENGR 1201	Introduction to Engineering
CHEM 1311	General Chemistry I
CHEM 1111	Laboratory for General Chemistry I
MATH 2413	Calculus I
PSYC 1100	Learning Frameworks

### Semester 2 (17 credits)

WRIT 1302	Composition II
ENGR 1304	Engineering Graphics I
COMM 1315	Public Speaking
PHYS 2325	University Physics I
PHYS 2125	Laboratory for University Physics I
MATH 2414	Calculus II

### Semester 3 (16 credits)

POLS 2305	Federal Government
PHYS 2326	University Physics II
PHYS 2126	Laboratory for University Physics II
MATH 2315	Calculus III
CSCI 1370	Software Development with Java
	Or
CSCI 1320	C Programming
STAT 3334	Probability and Statistics for Scientists and Engineers

### Semester 4 (15 credits)

POLS 2306	Texas Government
ECON 2301	Principles of Macroeconomics
MATH 2320	Differential Equations
CENG 3264	Engineering Design and Project Management
HIST 1302	United States History II

## Pre-Engineering Specialization in Mechanical Engineering

### Semester 1 (17 credits)

WRIT 1301	Composition I
HIST 1301	United States History I
ENGR 1201	Introduction to Engineering
CHEM 1311	General Chemistry I
CHEM 1111	Laboratory for General Chemistry I
MATH 2413	Calculus I
PSYC 1100	Learning Frameworks

### Semester 2 (17 credits)

WRIT 1302	Composition II
ENGR 1304	Engineering Graphics I
COMM 1315	Public Speaking
PHYS 2325	University Physics I
PHYS 2125	Laboratory for University Physics I
MATH 2414	Calculus II

### Semester 3 (16 credits)

POLS 2305	Federal Government
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PHYS 2326	University Physics II
PHYS 2126	Laboratory for University Physics II
MATH 2315	Calculus III
MENG 2301	Statics
MATH 2318	Linear Algebra

**Semester 4 (15 credits)**

POLS 2306	Texas Government
MATH 2320	Differential Equations
MENG 2361	Introduction to Mechanical Design
MENG 2302	Dynamics
MENG 2334	Thermodynamics I

## BIOLOGICAL AND ENVIRONMENTAL SCIENCE DEPARTMENT

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.

### BIOLOGICAL SCIENCE B.S./B.A.

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. 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. 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.

#### Major Requirements

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.

Students must complete the following core courses with grades of "C" or better.

BIOL 1306	Biology for Science Majors I
BIOL 1106	Laboratory for Biology for Science Majors I
BIOL 1307	Biology for Science Majors II
BIOL 1107	Laboratory for Biology for Science Majors II
CHEM 1311	General Chemistry I
CHEM 1111	Laboratory for General Chemistry I
CHEM 1312	General Chemistry II
CHEM 1112	Laboratory for General Chemistry II
CHEM 2323	Organic Chemistry I
CHEM 2123	Laboratory for Organic Chemistry I

Required minimum grade for all remaining Major Requirements is "C". Grades of "C-" and below are not accepted.

#### Environment

Select one:

BIOL 3333	Environmental Biology
BIOL 3311	Marine Biology
BIOL 4305	Ecology of the Amazon

**Population**

Select one:

BIOL 4311	Ecology
BIOL 3335	Epidemiology

**Anatomy and Lab**

Select one of the following groups:

**Group 1:**

BIOL 2428	Vertebrate Zoology
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**Group 2:**

BIOL 3313	Plant Anatomy
BIOL 3113	Laboratory for Plant Anatomy

**Group 3:**

BIOL 3373	Human Anatomy
BIOL 3173	Laboratory for Human Anatomy

**Group 4:**

BIOL 4313	Biology of Fishes
BIOL 4113	Laboratory for Biology of Fishes

**Physiology**

Select one:

BIOL 4344	Comparative Animal Physiology
BIOL 4345	Human Physiology
BIOL 4343	Plant Physiology

**Microbiology and Lab**

BIOL 2321	Microbiology for Science Majors
BIOL 2121	Laboratory for Microbiology for Science Majors

**Cellular Biology**

Select one:

BIOL 3307	Cell Biology
BIOL 4341	Biochemistry I

**Genetics and Lab**

BIOL 3341	Molecular Genetics
BIOL 3141	Laboratory for Molecular Genetics

**Required support courses:**

(must be completed with grades of "C-" or better)

**Statistics**

STAT 3308	Computational Statistics
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**Technical Writing**

WRIT 3315	Advanced Technical Writing
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## Biological Science B.A. Degree Specialization in General Biology (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.

BIOL 3306	Development of the Sciences
BIOL 4315	Biology Practicum
BIOL 4334	Environmental Microbiology
BIOL 4323	Field Biology
BIOL 4327	Plant Identification
BIOL 4189	Independent Study in Biology
BIOL 4289	Independent Study in Biology
BIOL 4389	Independent Study in Biology
BIOL 4391	Selected Topics in the Biological Sciences
BIOL x3xx	Approved Elective

## Biological Science B.A. Specialization for Teacher Certification

In addition to the required core courses for the B.A. in Biological Sciences, students in the Teacher Certification sub-plan must complete courses offered in the College of Education (COE) and must have dual advisement in both the subject field (biological sciences) and education. Please refer to the (COE) section of the catalog for the appropriate coursework for grades 7-12 teaching preparation.

## Biological Science B.S. Degree

### 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 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.

### Major Requirements

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.

BIOL 1106	Laboratory for Biology for Science Majors I
BIOL 1107	Laboratory for Biology for Science Majors II
BIOL 1306	Biology for Science Majors I
BIOL 1307	Biology for Science Majors II
BIOL 3141	Laboratory for Molecular Genetics
BIOL 3341	Molecular Genetics
BIOL 4242	Laboratory for Biochemistry
BIOL 4278	Seminar in Biology
BIOL 4311	Ecology
BIOL 4341	Biochemistry I
CHEM 1111	Laboratory for General Chemistry I
CHEM 1112	Laboratory for General Chemistry II
CHEM 1311	General Chemistry I
CHEM 1312	General Chemistry II
CHEM 2123	Laboratory for Organic Chemistry I
CHEM 2125	Laboratory for Organic Chemistry II
CHEM 2323	Organic Chemistry I
CHEM 2325	Organic Chemistry II
MATH 2413	Calculus I
PHYS 1101	Laboratory for College Physics I
PHYS 1102	Laboratory for College Physics II
PHYS 1301	College Physics I
PHYS 1302	College Physics II
STAT 3308	Computational Statistics
WRIT 3315	Advanced Technical Writing

## BIOLOGICAL SCIENCE B.S. DEGREE: SPECIALIZATION AREAS

### Specializations

Five specialization areas are available to students pursuing the B.S. degree in Biological Science. 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.

### Biological Science: Cell/Molecular/Biotechnology Specialization

#### Specialization Requirements

BIOL 2121	Laboratory for Microbiology for Science Majors
BIOL 2321	Microbiology for Science Majors
BIOL 4342	Biochemistry II
BIOL 4347	Cellular Physiology
BIOL 4348	Developmental Biology
BIOL 4351	Molecular Biology

#### Choose one of the following courses (3 hours):

BIOL 4345	Human Physiology
BIOL 4344	Comparative Animal Physiology
BIOL 4343	Plant Physiology

#### Choose one of the following groups with lab (4 hours):

##### Group 1:

BIOL 3373	Human Anatomy
BIOL 3173	Laboratory for Human Anatomy

##### Group 2:

BIOL 2428	Vertebrate Zoology
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##### Group 3:

BIOL 3313	Plant Anatomy
BIOL 3113	Laboratory for Plant Anatomy

#### Choose from the following specialization elective courses or other courses from list above (10 hours)

BIOL 4332	Histology
BIOL 4346	Pathophysiology
BIOL 4252	Molecular Biology Laboratory
BIOL 4355	Tissue Culture
BIOL 4253	Laboratory for Biotechnology
BIOL 4361	Immunology
BIOL 4254	Laboratory for Eukaryotic Gene Expression
BIOL 4371	Cancer Biology
BIOL 4189	Independent Study in Biology
BIOL 4289	Independent Study in Biology
BIOL 4291	Laboratory Topics in Biology
BIOL 4389	Independent Study in Biology
BIOL 4391	Selected Topics in the Biological Sciences
BIOL x3xx	Approved Elective
x3xx	Approved Elective

### Biological Science: Physiology/Pre-Health Specialization

#### Specialization Requirements

BIOL 2321	Microbiology for Science Majors
BIOL 2121	Laboratory for Microbiology for Science Majors
BIOL 3373	Human Anatomy
BIOL 3173	Laboratory for Human Anatomy
BIOL 4241	Laboratory for Physiology
BIOL 4342	Biochemistry II
BIOL 4345	Human Physiology

BIOL 4361                      Immunology

**Choose one of the following courses (3 hours):**

BIOL 4347                      Cellular Physiology  
 BIOL 4346                      Pathophysiology  
 BIOL 4351                      Molecular Biology

**Choose from the following specialization elective courses or other courses from list above (11 hours):**

BIOL 4332                      Histology  
 BIOL 3335                      Epidemiology  
 BIOL 4325                      Environmental Toxicology  
 BIOL 4348                      Developmental Biology  
 BIOL 4253                      Laboratory for Biotechnology  
 BIOL 4371                      Cancer Biology  
 HLTH XX3X                      Approved Elective  
 BIOL 4391                      Selected Topics in the Biological Sciences  
 BIOL x3xx                      Approved Elective  
 BIOL 4189                      Independent Study in Biology  
 BIOL 4289                      Independent Study in Biology  
 BIOL 4291                      Laboratory Topics in Biology  
 BIOL 4389                      Independent Study in Biology  
 x3xx                              Approved Elective

**Biological Science: Ecology/Microbiology/Aquatic and Marine Biology Specialization**

**Specialization Requirements**

**Physiology**

Select one:

BIOL 4343                      Plant Physiology  
 BIOL 4344                      Comparative Animal Physiology

**Anatomy and Lab**

Select one of the following groups:

**Group 1:**

BIOL 2428                      Vertebrate Zoology

**Group 2:**

BIOL 3313                      Plant Anatomy  
 BIOL 3113                      Laboratory for Plant Anatomy

**Microbiology and Lab**

BIOL 2321                      Microbiology for Science Majors  
 BIOL 2121                      Laboratory for Microbiology for Science Majors

**Environmental Biology**

BIOL 3333                      Environmental Biology

**Field Biology**

BIOL 4323                      Field Biology

**Choose two of the following courses: (6-7 hours)**

BIOL 3311                      Marine Biology  
 BIOL 4325                      Environmental Toxicology  
 BIOL 4313                      Biology of Fishes  
                                     And  
 BIOL 4113                      Laboratory for Biology of Fishes  
 BIOL 4334                      Environmental Microbiology  
 BIOL 4349                      Plant Development

**Choose from the following specialization elective courses or other courses from list above (9-10 hours):**

BIOL 4327                      Plant Identification

BIOL 3335	Epidemiology
BIOL 4305	Ecology of the Amazon
BIOL 4361	Immunology
BIOL 4347	Cellular Physiology
BIOL 4253	Laboratory for Biotechnology
BIOL 4391	Selected Topics in the Biological Sciences
BIOL x3xx	Approved Elective
BIOL 4189	Independent Study in Biology
BIOL 4289	Independent Study in Biology
BIOL 4389	Independent Study in Biology
BIOL x2xx	Biology Lab

## Biological Science: Plant Biology Specialization

### Specialization Requirements

BIOL 3313	Plant Anatomy
BIOL 3113	Laboratory for Plant Anatomy
BIOL 4343	Plant Physiology
BIOL 4342	Biochemistry II
BIOL 4347	Cellular Physiology
BIOL 4349	Plant Development

### Choose one of the following courses (3 hours):

BIOL 4351	Molecular Biology
BIOL 4327	Plant Identification
BIOL 3333	Environmental Biology

### Choose from the following specialization elective courses or other courses from list above (14 hours):

BIOL 4254	Laboratory for Eukaryotic Gene Expression
BIOL 4349	Plant Development
BIOL 4252	Molecular Biology Laboratory
BIOL 4305	Ecology of the Amazon
BIOL 4189	Independent Study in Biology
BIOL 4289	Independent Study in Biology
BIOL 4291	Laboratory Topics in Biology
BIOL 4315	Biology Practicum
BIOL 4389	Independent Study in Biology
BIOL 4391	Selected Topics in the Biological Sciences
BIOL x3xx	Approved Elective

## Biological Science: Forensic Biology Specialization

### Specialization Requirements

BIOL 2321	Microbiology for Science Majors
BIOL 2121	Laboratory for Microbiology for Science Majors
BIOL 3373	Human Anatomy
BIOL 3173	Laboratory for Human Anatomy
BIOL 4342	Biochemistry II
BIOL 4344	Comparative Animal Physiology
	Or
BIOL 4345	Human Physiology
BIOL 4335	Forensic Biology
BIOL 4325	Environmental Toxicology
CHEM 4363	Forensic Chemistry
CHEM 4373	Quantitative Chemical Analysis
CRIM 4330	Criminal Investigation

### Choose from the following specialization elective courses (4 hours):

BIOL 4347	Cellular Physiology
LEGL 4365	Mock Trial
CHEM 4367	Instrumental Analysis
CRIM 4334/CRIM 5338/SOCI 4334/SOCI 5338	Criminal Law
BIOL 4189	Independent Study in Biology
BIOL 4289	Independent Study in Biology

BIOL 4291	Laboratory Topics in Biology
BIOL 4389	Independent Study in Biology
BIOL 4315	Biology Practicum
BIOL 4391	Selected Topics in the Biological Sciences
BIOL x3xx	Approved Elective

## 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.

## BIOTECHNOLOGY CERTIFICATE OPTION

A student may work toward a Certificate in Biotechnology, which requires the completion of at least seven biology laboratory courses at UHCL. 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. Training in these laboratories will prepare students for careers in academic, industrial, biomedical, clinical, state/federal or environmental areas.

### Prerequisites

Students who are currently majoring in biology, environmental science or chemistry, or who have already completed a bachelor's degree, 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.

Current UHCL students (degree-seeking B.S. or M.S. students or post-baccalaureate non-degree seeking students) 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.

### Core Requirements

A minimum of seven laboratory courses must be completed for the certificate in Biotechnology.

#### The following three core courses are required:

BIOL 4252	Molecular Biology Laboratory
BIOL 4253	Laboratory for Biotechnology
BIOL 4254	Laboratory for Eukaryotic Gene Expression

#### At least four of the following courses are required:

BIOL 4189	Independent Study in Biology
BIOL 4289	Independent Study in Biology
BIOL 4291	Laboratory Topics in Biology
BIOL 4355	Tissue Culture
BIOL 4389	Independent Study in Biology
BIOL 4391	Selected Topics in the Biological Sciences

Independent Study: (up to 6 hours total)

## 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>.

### Environmental Science Requirements

#### Major Requirements

The following courses must be completed with the grade of "C-" or better:



WRIT 3315	Advanced Technical Writing
CHEM 1311	General Chemistry I
CHEM 1111	Laboratory for General Chemistry I
CHEM 1312	General Chemistry II
CHEM 1112	Laboratory for General Chemistry II
CHEM 2323	Organic Chemistry I
CHEM 2123	Laboratory for Organic Chemistry I
CHEM 3333	Environmental Chemistry
BIOL 3333	Environmental Biology
GEOL 3333	Environmental Geology
INDH 3333	Environmental Safety and Health
MATH 2413	Calculus I
PHYS 1301	College Physics I
PHYS 1101	Laboratory for College Physics I
PHYS 1302	College Physics II
PHYS 1102	Laboratory for College Physics II
STAT 3308	Computational Statistics

In addition: 3-hour Internship, Co-op, Independent Study, Seminar or Advanced Studies.

### 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 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.

## Environmental Science Specialization Requirements

Specialization requirements and approved upper-level electives must total 44 hours and must be completed with a grade of "C-" or better.

### Environmental Biology Specialization

BIOL 1306	Biology for Science Majors I
BIOL 1106	Laboratory for Biology for Science Majors I
BIOL 1307	Biology for Science Majors II
BIOL 1107	Laboratory for Biology for Science Majors II
BIOL 4334	Environmental Microbiology
BIOL 4311	Ecology
BIOL 4323	Field Biology
BIOL 4325	Environmental Toxicology
BIOL 4344	Comparative Animal Physiology
CHEM 4251	Laboratory for Environmental Analysis
CHEM 4355	Environmental Sampling and Monitoring

### Choose one of the following courses:

BIOL 2428	Vertebrate Zoology
BIOL 3311	Marine Biology
BIOL 4305	Ecology of the Amazon
BIOL 4313	Biology of Fishes
	And
BIOL 4113	Laboratory for Biology of Fishes
BIOL 4327	Plant Identification

### Environmental Chemistry Specialization

CHEM 2301	Analytical Chemistry I
CHEM 2302	Analytical Chemistry II
CHEM 3320	Survey of Physical Chemistry
CHEM 4251	Laboratory for Environmental Analysis
CHEM 4352	Water Chemistry and Water Pollution
CHEM 4355	Environmental Sampling and Monitoring
CHEM 4356	Soil & Groundwater Remediation
CHEM 4367	Instrumental Analysis
GEOL 4323	Soils in the Environment
CHEM 2325	Organic Chemistry II
CHEM 2125	Laboratory for Organic Chemistry II

### Environmental Geology Specialization

CHEM 4251	Laboratory for Environmental Analysis
CHEM 4355	Environmental Sampling and Monitoring

GEOL 1103	Laboratory for Physical Geology
GEOL 1104	Laboratory for Historical Geology
GEOL 1303	Physical Geology
GEOL 1304	Historical Geology
GEOL 3240	Geological Field Methods
GEOL 3307	Geographical Information Systems
GEOL 4323	Soils in the Environment
GEOL 4324	Geomorphology
GEOL 4325	Sedimentation and Stratigraphy
GEOL 4351	Hydrogeology

### Industrial Hygiene Specialization

BIOL 2301	Anatomy & Physiology I
BIOL 2101	Laboratory for Anatomy and Physiology I
BIOL 2302	Anatomy & Physiology II
BIOL 2102	Laboratory for Anatomy and Physiology II
BIOL 4325	Environmental Toxicology
INDH 3311	Industrial Health and Hygiene
INDH 3332	Principles of Professional Safety
INDH 4311	Noise and Hearing Conservation
INDH 4315	Industrial Radiological Health
INDH 4321	Ergonomics, Human Factors and Workspace Design
INDH 4322	Industrial Hygiene Sampling and Analysis

### Safety Specialization

BIOL 2301	Anatomy & Physiology I
BIOL 2101	Laboratory for Anatomy and Physiology I
BIOL 2302	Anatomy & Physiology II
BIOL 2102	Laboratory for Anatomy and Physiology II
INDH 3311	Industrial Health and Hygiene
INDH 3332	Principles of Professional Safety
INDH 3340	Techniques of Safety Engineering and Analysis
INDH 4321	Ergonomics, Human Factors and Workspace Design
INDH 4322	Industrial Hygiene Sampling and Analysis
INDH 4316	System Safety & Accident Investigation
INDH 4323	Hazardous Materials and Emergency Management
INDH 4324	Fire Safety Engineering
INDH 4333	Construction and General Industry Safety

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 the 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 the ENSC 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.

## MINORS IN CSE

CSE offers minors in the areas listed below. Minors are not required of any student and must not extend beyond the total number of required hours for program completion (120 for most CSE majors; 122 for computer science; 132 for computer engineering). For each minor, students must complete at least 15 hours with at least 9 of those hours drawn from 3000 and/or 4000 level course offerings. All courses completed for minor credit must receive a grade of "C" or above.

### MINOR IN ACTUARIAL SCIENCE (15 HOURS)

This minor is designed to prepare students for careers as actuaries.

ACCT 2301 Principles of Accounting I

ECON 2301 Principles of Macroeconomics

STAT 4345 Introduction to Statistics

STAT 4346 Probability for Actuarial Exam P1

STAT 4348 Financial Mathematics for Exam FM

### MINOR IN ASTRONOMY 17 HOURS

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 Lab for Stars and Galaxies

ASTR 1303 Stars and Galaxies

ASTR 1104 Lab for Solar System

ASTR 1304 Solar System

Elective courses in the minor; any 3 of the upper level courses listed (9 hours)

ASTR 3311 Modern Astronomy

ASTR 4311 Universal Origins

ASTR 4312 Principles of Astrobiophysics

ASTR 4391 Selected Topics in Space Science (adviser approval required).

PHYS 4362 Fundamentals of Astroparticle Physics

## MINOR IN BIOLOGY 17-18 HOURS

This minor is designed to provide a solid background in biological science for students majoring in other disciplines.

Required courses in the minor (8 hours)

BIOL 1106 Lab for General Biology for Science Majors I

BIOL 1107 Lab for General Biology for Science Majors II

BIOL 1306 General Biology for Science Majors I

BIOL 1307 General Biology for Science Majors II

Elective courses in the minor: Choose courses in only one focus area (\* indicates prerequisite courses)

BIOL 1106/1306 and BIOL 1107/1307)

Human Biology (9 hours)

BIOL 3173 Lab for Human Anatomy

BIOL 3373 Human Anatomy

BIOL 4241 Lab for Human Physiology

BIOL 4345 Human Physiology

Cellular Biology (10 hours)

BIOL 3307 Cell Biology\*

BIOL 3141 Lab for Molecular Genetics\*

BIOL 3341 Molecular Genetics\*

BIOL 4351 Molecular Biology

Environment Biology (9 hours)

BIOL 3311 Marine Biology\*

BIOL 3333 Environmental Biology

BIOL 4311 Ecology\*

Plant Biology (9 hours)

BIOL 3313 Plant Anatomy\*

BIOL 4327 Plant Identification\*

BIOL 4343 Plant Physiology\*

## **MINOR IN CHEMISTRY 17 HOURS**

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. In all, students must complete 17 hours as indicated below 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.

Required courses (8 hours)

CHEM 2123 Lab for Organic Chemistry I

CHEM 2125 Lab for Organic Chemistry II

CHEM 2323 Organic Chemistry I

CHEM 2325 Organic Chemistry II

Elective courses in the minor, any 3 of the following courses: (9 hours)

CHEM 3320 Survey of Physical Chemistry

CHEM 4321 Physical Chemistry I

CHEM 4341 Biochemistry I

CHEM 4367 Instrumental Analysis

CHEM 4368 Advanced Organic Chemistry

CHEM 4373 Quantitative Chemical Analysis

## **MINOR IN CYBERSECURITY 15-17 HOURS**

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. In all, students must complete 15-17 hours as indicated below with at least 9 of those hours drawn from 3000- and/or 4000-level course offerings. All courses for minor credit must be completed with a grade of "C" or above.

Required courses in the minor.

CSCI 1470 Computer Science I or CSCI 3303 Programming Fundamentals

CSCI 1370 Software Development with Java or CSCI 1471 Computer Science II

CSCI 4323 Computer Security or CINF 4323 Computer Security

ITEC 3388 Cyber Security I

ITEC 4383 Cyber Security II

## **MINOR IN ENVIRONMENTAL SCIENCE 18 HOURS**

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

CHEM 3333 Environmental Chemistry

GEOL 3333 Environmental Geology

INDH 3333 Environmental Health and Safety

Elective courses in the minor (6 hours)

BIOL 4325 Environmental Toxicology

BIOL 4334 Environmental Microbiology

CHEM 4352 Water Chemistry and Water Pollution

CHEM 4355 Environmental Sampling and Monitoring

GEOL 4351 Hydrogeology

GEOL 4356 Soil and Groundwater Remediation

INDH 4322 Industrial Hygiene Sampling and Analysis

INDH 4323 Hazardous Materials and Emergency Management

## MINOR IN GEOLOGY 17 HOURS

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 (4 hours)

GEOL 1303 Physical Geology

GEOL 1103 Lab for Physical Geology

Choose one lower level course with lab from the following: (4 hours)

GEOL 1304 Historical Geology

GEOL 1104 Lab for Historical Geology

GEOL 2307 Field Methods

GEOL 2107 Lab for Field Methods

GEOL 2309 Mineralogy

GEOL 2109 Lab for Mineralogy

Elective courses in the minor, any 3 of the following courses: (9 hours)

GEOL 3304 Fundamental of Planetary Geology

GEOL 3307 Geographical Information Systems

GEOL 3317 Petrology

GEOL 3333 Environmental Geology

GEOL 4317 Advanced Mineralogy and Petrology

GEOL 4323 Soils in the Environment

GEOL 4324 Geomorphology

GEOL 4325 Sedimentation and Stratigraphy

GEOL 4326 Oceanography

GEOL 4327 Natural Disasters

GEOL 4335 Applied GIS

GEOL 4351 Hydrogeology

GEOL 4356 Soil and Groundwater Remediation

GEOL 4375 Petroleum Geology

GEOL 4391 Selected Topics in Geology: Structural Geology

GEOL 4391 Selected Topics in Geology: Paleontology

## **MINOR IN MATHEMATICS 15 HOURS**

A minor in Mathematics will serve students who wish to follow a related interest or to expand their job prospects. No math education courses or independent study are allowed, in order to fulfill minor requirements.

Required courses (6 hours)

MATH 2315 Calculus III

MATH 2318 Linear Algebra or MATH 2320 Differential Equations

Elective courses (9 hours)

MATH 3331 Advanced Calculus

MATH 3363 Functions of a Complex Variable

MATH 4312 Number Theory

MATH 4315 Numerical Analysis and its Application

MATH 4325 Theory of Models and Applications

MATH 4344 Introduction to Probability

MATH 4345 Introduction to Statistics

MATH 4347 Financial Mathematics

## **MINOR IN PHYSICS 18 HOURS**

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 minor:

PHYS 2125 Lab for University Physics I

PHYS 2126 Lab for University Physics II

PHYS 2325 University Physics I

PHYS 2326 University Physics II

PHYS 3103 Lab for Modern Physics

PHYS 3303 Modern Physics

Electives in the minor, any 2 of the following (6 hours)

PHYS 3321 Intermediate Mechanics

PHYS 3331 Intermediate Electromagnetism

PHYS 3342 Quantum Theory

PHYS 3351 Thermodynamics and Statistical Mechanics

# ROSTER OF COURSES

## ACCT - ACCOUNTING

### **ACCT 2301 - Principles of Accounting I - Financial**

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**

Accounting concepts and their application to cost behavior, budgeting, responsibility accounting, cost control and product costing.

### **ACCT 3331 - Managerial Accounting**

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.

Prerequisite: Six semester hours of Principles of Accounting or equivalent.

### **ACCT 3332 - Financial Reporting and Analysis**

Intermediate accounting concepts and procedures for financial reporting and analysis. Cannot be taken for credit by accounting majors.

Prerequisite: Six semester hours of Principles of Accounting or equivalent.

### **ACCT 3333 - Cost Accounting**

Intensive examination of cost systems, cost behavior, approaches to cost statements, implications for managerial planning and financial reporting.

Prerequisite: Six semester hours of Principles of Accounting or equivalent.

### **ACCT 3341 - Intermediate Accounting I**

Study of the concepts and procedures underlying the measurement and reporting of financial information.

Prerequisite: Six semester hours of Principles of Accounting or equivalent.

### **ACCT 3342 - Intermediate Accounting II**

Continuation of the study of concepts and procedures underlying the measurement and reporting of financial information.

Prerequisite: ACCT 3341 or equivalent.

### **ACCT 4331 - Federal Taxation of Individuals**

An analysis of the federal income tax laws as they apply to individuals.

Prerequisite: Six semester hours of Principles of Accounting or equivalent.

### **ACCT 4332 - Financial Information Systems**

Design and operation of contemporary accounting information systems, including control concepts and reporting responsibilities.

Prerequisite: ACCT 3341 and ISAM 3303 or equivalent.

### **ACCT 4341 - Auditing I**

An introduction to auditing theory and standards, with emphasis on the attest function, professional ethics and responsibilities, audit risk concepts and audit planning.

Prerequisite: ACCT 3342 or equivalent, Prerequisite or corequisite: ACCT 4332 or equivalent.

### **ACCT 4342 - Government and Not-for-Profit Accounting**

The course covers the government and not-for-profit environment, fund accounting, budgeting, revenue and expenditure recognition, and financial reporting requirements.



Prerequisite: ACCT 3342 or equivalent.

### **ACCT 4343 - Understanding Financial Statements**

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.

Prerequisite: ACCT 3342 or equivalent.

### **ACCT 4344 - Oil and Gas Accounting**

Exploration and production activities of a petroleum company are examined from both a financial and tax accounting standpoint.

Prerequisite: ACCT 3341 or equivalent.

### **ACCT 4345 - Software Applications in Auditing**

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.

Prerequisite: ISAM 3303 and ACCT 3341 or equivalents.

Corequisite: ACCT 4332 or equivalent.

### **ACCT 4346 - Business Ethics for Accountants**

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.

Prerequisite: ACCT 3341 and ACCT 3342, or ACCT 5133 and ACCT 5134, or equivalents.

### **ACCT 4352 - Advanced Financial Accounting**

Accounting for the acquisition and consolidation of domestic and foreign concerns, foreign currency translations and remeasurement; accounting for branches, governmental agencies and other not-for-profit entities.

Prerequisite: ACCT 3342 or equivalent.

### **ACCT 4353 - Federal Taxation of Business Entities**

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.

Prerequisite: ACCT 4331 or equivalent.

### **ACCT 4361 - International Accounting**

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.

Prerequisite: ACCT 3341 or equivalent.

### **ACCT 4379 - Internship in Accounting**

Supervised work experience each week in an approved accounting firm, governmental agency, or business. Written work as required by sponsoring faculty member.

Prerequisite: 15 hours of upper-level credit, approval of associate dean and faculty chair, and sponsoring faculty member.

**ACCT 4389 - Independent Studies in Accounting**

Independent directed study in Accounting.

Prerequisite: Approval of instructor, Faculty Chair and Associate Dean required.

**ACCT 4391 - Selected Topics in Accounting**

Identified by specific title each time course is offered.

**ACCT 43XX - Introduction to Internal Auditing**

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.

Prerequisite: ACCT 3342 or equivalent.

Prerequisite: Prerequisite: ACCT-3342

**ACCT 43XX - Business Valuation**

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.

Prerequisite: ACCT 3342 or equivalent

Prerequisite: Prerequisite: ACCT-3342

## **ANTH - ANTHROPOLOGY**

**ANTH 2346 - General Anthropology**

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**

The comparative study of culture as manifested in technology, language, personality, and religion and in the social, economic, and political organization of societies.

**ANTH 3352 - Political/Economic Anthropology**

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**

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**

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**

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 3361 - Anthropology of Food**

Exploration of production, consumption, and distribution of food in the United States and internationally.

**ANTH 3362 - Medicine, Bodies, and Culture**

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**

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**

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**

This course 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 4330 - Cultural Study Abroad**

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**

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**

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**

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.

Cross-Listed as: SOCI 4341 Women in Society and WMST 4341 Women in Society

**ANTH 4342 - Human Rights and Social Justice**

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.

**ANTH 4343 - Anthropological Perspectives on World Religion**

Analysis of the ways religion is lived and practiced in diverse communities in the world.

**ANTH 4351 - Families, Communities, and Globalization**

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.

Cross-Listed as: ANTH 5531 Families, Communities, and Globalization, PSYC 5535 Cross-Cultural Perspectives on the Family, and SOCI 5535 Cross-Cultural Perspectives on the Family.

**ANTH 4352 - World Prehistory and Archaeology**

An examination of the basic methods and theories used by archaeologists to explore human evolution and prehistory.

**ANTH 4364 - Visual Anthropology**

Study of anthropology through visual media, specifically film and still photography.

**ANTH 4372 - Applied Qualitative Methods**

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**

Permission of instructor required.

**ANTH 4391 - Selected Topics in Anthropology**

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**

Examination of painting, sculpture, architecture, and other arts from prehistoric to Renaissance.

**ARTS 1304 - World Art Survey II**

Examination of painting, sculpture, architecture, and other arts from the post-Renaissance to the contemporary period.

**ARTS 1311 - Design Foundations**

Elements and principles of art using two-dimensional and color concepts.

**ARTS 1316 - Drawing Foundations**

A beginning drawing course open to all students introducing 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.

Prerequisite: ARTS 1311 Design Foundations

**ARTS 1325 - Drawing for Non-Art Majors**

Exploration of drawing media, composition, and space relationships using recognizable forms.

**ARTS 1371 - Photography for Non-Art Majors**

Exploration of basic methods and processes of the photographic medium. Topics include use of camera and techniques for taking better photographs.

**ARTS 2316 - Painting**

Exploration of ideas using painting media and techniques.

Prerequisite: ARTS 1311 Design Foundations and ARTS 1316 Drawing Foundations

**ARTS 2371 - Digital Photography**

Exploration of photography and photographic processes in the digital realm.

**ARTS 2379 - Arts and the Child**

This course is divided into three parts - visual art, music, and theatre. The goal is to prepare individuals to teach these art forms to young children through elementary ages.

**ARTS 3310 - Sculpture**

A study of three-dimensional forms as related to techniques, processes, aesthetics, and other materials.

**ARTS 3320 - Ceramics**

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**

This course 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.

Prerequisite: ARTS 1316 Drawing Foundations or ARTS 1325 Drawing for Non-Art Majors.

### **ARTS 3333 - Life Drawing**

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.

Prerequisite: ARTS 3331 Intermediate Drawing

### **ARTS 3335 - Intermediate Painting**

Principles of space relationship and composition using recognizable forms through oil, acrylic, or watercolor painting.

Prerequisite: ARTS 3331 Intermediate Drawing.

### **ARTS 3340 - Printmaking**

Exploration of printmaking techniques in intaglio, chine-collé etching, woodcuts/linocuts, and monotypes.

Prerequisite: ARTS 3331 Intermediate Drawing.

### **ARTS 3341 - Fibers**

History, design, and techniques of woven and non-woven fiber forms. May be repeated for credit.

### **ARTS 3350 - Art 1900-1950**

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.

Cross-Listed as: HUMN 3350 Art 1900-1950

### **ARTS 3351 - Art 1950-Present**

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 as: HUMN 3351 Art 1950-Present

### **ARTS 3352 - Traditional Photography**

Exploration of methods, processes, and craft of film based on photography. Examines foundations of photography, the photographic process, and ways of seeing for fine art, communication, and documentation.

Prerequisite: ARTS 2371 Digital Photography

### **ARTS 3355 - Latin American Art of the Twentieth Century**

This course will examine the art of 20th century Latin America examined through a series of major modern art centers, including Mexico City, Havana, Buenos Aires, Rio de Janeiro, Bogota, and Caracas.

Cross-Listed as: HUMN 3355 Latin American Art of the Twentieth Century

### **ARTS 3356 - Mexican Art, 1500-Present**

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.

Cross-Listed as: HUMN 3356 Mexican Art, 1500-Present

### **ARTS 3357 - History and Theory of Photography**

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 as: HUMN 3357 History and Theory of Photography

### **ARTS 3360 - Graphic Design**

Overview of practices of graphic design. Presentations on contemporary design techniques. Design projects in vector drawing using Adobe Illustrator. Previous art design and computer skills desirable.

### **ARTS 3365 - 3D Computer Modeling**

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.

Prerequisite: ARTS 2371 Digital Photography and ARTS 3360 Graphic Design.

### **ARTS 4189 - Independent Study in Art**

Permission of instructor required. May be taken for 1 hour of credit. For 2 or 3 hours of Independent Study credit, students should enroll in ARTS 4289 Independent Study in Art or ART 4389 Independent Study in Art.

### **ARTS 4289 - Independent Study in Art**

Permission of instructor required. May be taken for 2 hours of credit. For 1 or 3 hours of Independent Study credit, students should enroll in ARTS 4189 Independent Study in Art or ART 4389 Independent Study in Art.

### **ARTS 4300 - Methods in Elementary Art Education**

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**

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**

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**

Allows students to develop advanced processes in sculpture. Topics vary; may be repeated for credit.

Prerequisite: ARTS 3310 Sculpture.

### **ARTS 4311 - Process Sculpture**

Study of 3D forms through wood and metal fabrication and bronze casting. May be repeated for credit with permission of instructor.

Prerequisite: ARTS 3310 Sculpture or permission of instructor.

### **ARTS 4312 - Art of Ancient Iraq and the Near East**

The art, history, and culture of Ancient Iraq and the Near East. Topics include prehistoric art, state formation, ideology, and empire.

Cross-Listed as: HUMN 4312 Art of Ancient Iraq and the Near East

### **ARTS 4315 - Art of the Ancient Greek World**

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.

Cross-Listed as: HUMN 4315 Art of the Ancient Greek World

### **ARTS 4320 - Advanced Ceramics**

Emphasis on individual projects and personal growth through technique and concept. Focused investigation and application of ceramic materials, approaches, and processes including 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.

Prerequisite: ARTS 3320 Ceramics or permission of instructor.

### **ARTS 4321 - Raku**

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.

Prerequisite: ARTS 3320 Ceramics.

### **ARTS 4322 - Roman Art**

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 as: HUMN 4322 Roman Art

### **ARTS 4331 - Advanced Drawing**

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.

Prerequisite: ARTS 3331 Intermediate Drawing or equivalent.

### **ARTS 4333 - Advanced Life Drawing**

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.

Prerequisite: ARTS 3333 Life Drawing.

### **ARTS 4335 - Advanced Painting**

Principles of space relationship and composition through oil, acrylic, watercolor, collage, and mixed media painting. May be repeated for credit.

Prerequisite: ARTS 3331 Intermediate Drawing and ARTS 3335 Intermediate Painting or equivalent.

### **ARTS 4340 - Advanced Printmaking**

Exploration of printmaking techniques of intaglio, chine-collé, etching, woodcuts/linocuts and monotypes. May be repeated for credit.

Prerequisite: ARTS 3340 Intermediate Printmaking or equivalent.

### **ARTS 4341 - Advanced Fibers**

Supervised projects in woven and non-woven techniques with emphasis on color and design. May be repeated for credit.

Prerequisite: ARTS 3341 Fibers.

### **ARTS 4348 - Information Design**

In this project-driven course, students will create information graphics from a variety of data, statistics, and informational sources. Course lectures include translating data into visually dynamic projects, visual problem-solving, and overviews of professional infographics. Topics vary.

Prerequisite: ARTS 2371 Digital Photography and ARTS 3360 Graphic Design.

### **ARTS 4350 - Advanced Photography**

Further exploration of photography as an artistic medium. Emphasis will be on concept, furthering craft, alternative print processes, and the marriage of working digitally and traditionally within the wet photographic area. May be repeated for credit.

Prerequisite: ARTS 2371 Digital Photography or ARTS 3352 Traditional Photography or equivalent with instructor approval.

**ARTS 4351 - Intermediate Photography**

Exploration of photography and photographic processes in the digital realm. Emphasis on larger scale art and conceptual projects. Students should have access to a digital SLR camera. Topics vary. May be repeated for credit.

Prerequisite: ARTS 2371 Digital Photography or permission of instructor.

**ARTS 4352 - Video Arts**

Exploration of basic methods and processes of video production using non-linear editing equipment. Emphasizes concept development, experimentation, and artistic expression. Helpful for students to have a working knowledge of video cameras and basic editing skills.

**ARTS 4358 - History and Theory of Graphic Design**

History of graphic design from the inception of written communication to postmodern design and digital revolution.

Prerequisite: ARTS 1303 World Art Survey I or 1304 World Art Survey II or permission of instructor.

**ARTS 4363 - Advertising Design**

Survey of image techniques used in the field of advertising. Design projects requiring various computer techniques. Previously established design skills are required. Access to a digital SLR camera is desirable.

Prerequisite: ARTS 2371 Digital Photography and ARTS 3360 Graphic Design or permission of instructor.

**ARTS 4364 - Museum Studies**

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 as: HUMN 4364 Museum Studies

**ARTS 4365 - 3D Animation**

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.

Prerequisite: ARTS 3365 3D Computer Modeling.

**ARTS 4366 - Propaganda and Persuasive Images**

This course 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 study of modern photomanipulation and advertising strategies.

Cross-Listed as: HUMN 4366 Propaganda and Persuasive Images

**ARTS 4368 - Graphic Novel Design**

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.

Prerequisite: ARTS 3333 Life Drawing and ARTS 3360 Graphic Design.

**ARTS 4369 - Digital Illustration**

Through projects, discussions, and lectures, students acquire a thorough understanding of all aspects of digital illustration. Computer projects using various programs and techniques including Adobe software, typography, and photo-illustration will be introduced. Assignments emphasize concept, creativity, communication, technical achievement, and presentation.

Prerequisite: ARTS 3360 Graphic Design, or permission of instructor.

**ARTS 4370 - Gender and Identity in the Visual Arts**

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**

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**

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**

Spectacle of modern life and artistic avant-gardism 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**

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**

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**

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**

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**

Permission of instructor required. May be taken for 3 hours of credit. For 1 or 2 hours of Independent Study credit, students should enroll in ARTS 4189 Independent Study in Art or ART 4289 Independent Study in Art.

### **ARTS 4390 - Senior Seminar in Art**

Required capstone course for Arts majors. Prepares students for graduate and professional engagement from several perspectives: portfolio and slide presentations; successful resume and grant writing; interviewing prospective exhibition venues; learning logistics of exhibiting artworks, including transportation, installation, and publicity.

### **ARTS 4391 - Selected Topics in Art**

Identified by specific title each time course is offered. Topics vary; may be repeated for credit with permission of instructor.

### **ARTS 4392 - Arts Internship**

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**

Laboratory experiments and activities in stellar and galactic astronomy.

Corequisite: ASTR 1303

### **ASTR 1104 - Laboratory for Solar System**

Laboratory experiments and activities in observational and solar system astronomy.

Corequisite: ASTR 1304

### **ASTR 1303 - Stars and Galaxies**

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.

Corequisite: ASTR 1103

### **ASTR 1304 - Solar System**

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.

Corequisite: ASTR 1104

### **ASTR 2377 - Life and the Universe**

Origin of the Universe, origin and evolution of life and the possibilities for finding life on other planets, including the search for extra-terrestrial intelligence.

### **ASTR 3311 - Modern Astronomy**

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**

Origin of the universe, the Earth and life.

Prerequisite: CHEM 1311, CHEM 1312 and PHYS 1301, PHYS 1302 or PHYS 2325 and PHYS 2326.

### **ASTR 4312 - Principles of Astrobiophysics**

Overview of the search for life in the universe, including origin and evolution of habitable planets in the solar system and beyond.

Prerequisite: CHEM 1311, CHEM 1312 and PHYS 1301, PHYS 1302 or PHYS 2325, PHYS 2326

### **ASTR 4391 - Selected Topics in Space Science**

Identified by specific title each time course is offered.

## **BAPA - BUSINESS AND PUBLIC ADMINISTRATION**

### **BAPA 1301 - Business Principles**

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**

Development of critical thinking skills based on an investigation of traditional approaches to correct and incorrect reasoning.

### **BAPA 4195 - Co-operative Education in Business**

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.

Prerequisite: Approved Candidate Plan of Study, completed cooperative education file and approval of the Director of Cooperative Education.

### **BAPA 4366 - Entrepreneurship and Small Business Consulting**

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.

Prerequisite: ACCT 3331, FINC 3331, MGMT 3301 and MKTG 3301 or equivalents.

### **BAPA 4395 - Co-operative Education in Business**

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.

Prerequisite: Prerequisite: Approved Candidate Plan of Study, completed cooperative education file and approval of the Director of Cooperative Education.

## **BSCI - BEHAVIORAL SCIENCES**

### **BSCI 4389 - Independent Study in Behavioral Sciences**

Permission of instructor required.

### **BSCI 4391 - Selected Topics in Behavioral Sciences**

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**

Capstone experience for the Behavioral Sciences degree.

## **BIOL - BIOLOGY**

### **BIOL 1106 - Laboratory for Biology for Science Majors I**

Laboratory exercises in basic biochemistry, cell biology, cell metabolism and energetics, photosynthesis, genetics, evolution, taxonomy, bacteria and viruses.

Corequisite: BIOL 1306

### **BIOL 1107 - Laboratory for Biology for Science Majors II**

Laboratory exercises relating to fungi, protists, plants, plant function, animals, animal physiology and ecology.

Corequisite: BIOL 1307

### **BIOL 1108 - Laboratory for Biology Non-Science Majors I**

Laboratory activities will reinforce a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function and reproduction.

Corequisite: BIOL 1308

### **BIOL 1109 - Laboratory for Biology Non-Science Majors II**

Laboratory activities will reinforce a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity and physiology.

Corequisite: BIOL 1309

### **BIOL 1306 - Biology for Science Majors I**

A general biology course including basic biochemistry, cell biology, cell metabolism and energetics, photosynthesis, genetics, evolution, taxonomy, bacteria and viruses.

Corequisite: BIOL 1106

### **BIOL 1307 - Biology for Science Majors II**

A continuation of Biology for Science Majors I with emphasis on fungi, protists, plants, plant function, animals, animal physiology and ecology.

Corequisite: BIOL 1107

**BIOL 1308 - Biology for Non-Science Majors I**

Provides a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function and reproduction.

Corequisite: BIOL 1108

**BIOL 1309 - Biology for Non-Science Majors II**

This course will provide a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity and physiology.

Corequisite: BIOL 1109

**BIOL 2101 - Laboratory for Anatomy and Physiology I**

This lab course studies the chemical and cellular levels of organization. The study of the structure and function of the integumentary, skeletal, muscular, nervous and endocrine systems. Not for Biology or Health Profession majors.

Corequisite: BIOL 2301

**BIOL 2102 - Laboratory for Anatomy and Physiology II**

This lab course studies the structure and function of the cardiovascular, respiratory, digestive, urinary and reproductive systems. Basic principles of human genetics are included. Not for Biology or Health Profession majors.

Corequisite: BIOL 2302

**BIOL 2121 - Laboratory for Microbiology for Science Majors**

Laboratory exercises using culture of micro-organisms grown on selected media.

Prerequisite: BIOL 1306, BIOL 1307.

Corequisite: BIOL 2321

**BIOL 2301 - Anatomy & Physiology I**

The study of chemical and cellular levels of organization focuses on the structure and function of the integumentary, skeletal, muscular, nervous and endocrine systems. Not for Biology or Health Profession majors.

Corequisite: BIOL 2101

**BIOL 2302 - Anatomy & Physiology II**

The structure and function of the cardiovascular, respiratory, digestive, urinary and reproductive systems are emphasized. Basic principles of human genetics are included. Not for Biology or Health Profession majors.

Prerequisite: BIOL 2301 and BIOL 2101

Corequisite: BIOL 2102

**BIOL 2321 - Microbiology for Science Majors**

Study of the morphology, physiology and taxonomy of representative groups of pathogenic and non-pathogenic micro-organisms.

Prerequisite: BIOL 1306, BIOL 1307.

Corequisite: BIOL 2121

**BIOL 2428 - Vertebrate Zoology**

Lecture and laboratory exercises on the structure, development, physiology and natural history of the vertebrate animals with emphasis on comparative evolution.

Prerequisite: BIOL 1306, BIOL 1307.

**BIOL 3113 - Laboratory for Plant Anatomy**

Laboratory exercises on structures, tissues and cells of plants.

Corequisite: BIOL 3313

**BIOL 3141 - Laboratory for Molecular Genetics**

Laboratory investigations using molecular genetics to demonstrate principles of transmission and population genetics.

Corequisite: BIOL 3341

**BIOL 3173 - Laboratory for Human Anatomy**

The structure of the human body will be studied using anatomical models, preserved tissue specimens and computer programs.

Prerequisite: BIOL 1306 and BIOL 1307

Corequisite: BIOL 3373

**BIOL 3306 - Development of the Sciences**

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**

An introduction to fundamental principles of cell structure and function.

Prerequisite: BIOL 1306, BIOL 1307. CHEM 1311, CHEM 1312.

**BIOL 3311 - Marine Biology**

Study of marine organisms and their environment. One or more weekend or weekday field trips and limited laboratory exercises are required.

Prerequisite: BIOL 1306, BIOL 1307.

**BIOL 3313 - Plant Anatomy**

Structures, tissues and cells of vegetative and reproductive organs of land plants related to concepts of growth, differentiation and organization function and evolutionary history.

Prerequisite: BIOL 1306, BIOL 1307.

Corequisite: BIOL 3113

**BIOL 3316 - Introduction to Herpetology**

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.

Prerequisite: BIOL 1306, BIOL 1307.

**BIOL 3333 - Environmental Biology**

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**

Focuses on the causality of infectious diseases, modes of dissemination, laboratory diagnosis and prevention and control.

Prerequisite: BIOL 1306, BIOL 1307.

**BIOL 3335 - Epidemiology**

A study of the causes and clinical methods of controlling disease in large populations.

**BIOL 3336 - Neuropsychology Practicum**

Laboratory investigation of brain/ behavior relationships in the rat. Readings from primary research literature, lab experiments and research reports.

Prerequisite: Permission of instructor.

**BIOL 3341 - Molecular Genetics**

Study of the molecular basis of genetics, including transmission genetics and population genetics.

Prerequisite: BIOL 1306, BIOL 1307.

Corequisite: BIOL 3141

**BIOL 3373 - Human Anatomy**

Fundamentals of human anatomy emphasizing an organ systems approach to the study of the human body. Lecture and demonstration.

Prerequisite: BIOL 1306 and BIOL 1307

Corequisite: BIOL 3173

**BIOL 4113 - Laboratory for Biology of Fishes**

Laboratory course on identification, anatomy, morphology and ecology of fish. Weekend or weekday field trips and collections required.

Corequisite: BIOL 4313

**BIOL 4114 - Laboratory for Freshwater Biology**

Laboratory study of freshwater organisms and multiple weekends and/or weekday field trips to study sites off campus.

Corequisite: BIOL 4314

**BIOL 4189 - Independent Study in Biology**

Prerequisite: Approval of instructor, chair and associate dean.

**BIOL 4195 - Cooperative Education Work Term**

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.)

Prerequisite: Approved Candidate Plan of Study, completed cooperative education file and approval of associate dean and Director of Cooperative Education.

**BIOL 4211 - Laboratory for Ecology**

Four laboratory hours per week. Conduct experiments on population growth, competition and predation to test theoretical models; construct life tables.

Prerequisite: BIOL 4311

**BIOL 4225 - Environmental Toxicology Laboratory**

Theory and practice in aquatic toxicity testing using EPA standard methods.

Prerequisite: BIOL 4325.

**BIOL 4241 - Laboratory for Physiology**

Laboratory exercises demonstrating physiological processes.

Prerequisite: BIOL 4344 or 4345.

**BIOL 4242 - Laboratory for Biochemistry**

Laboratory exercises in Biochemistry.

Prerequisite: BIOL 4341.

**BIOL 4252 - Molecular Biology Laboratory**

Laboratory methods and techniques in molecular biology.

Prerequisite: BIOL 4351.

**BIOL 4253 - Laboratory for Biotechnology**

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.

Prerequisite: BIOL 4242, BIOL 4342.

**BIOL 4254 - Laboratory for Eukaryotic Gene Expression**

Laboratory course designed to provide practical training in current gene expression studies including the isolation, quantification and handling of RNA, cDNA synthesis, RT-PCR and quantitative PCR. Microarrays and RNAi techniques will be discussed.

Prerequisite: BIOL 4351.

**BIOL 4278 - Seminar in Biology**

Study of objectives, methods and culture of biological science. Literature surveys, presentations and research papers are required.

**BIOL 4289 - Independent Study in Biology**

Prerequisite: Approval of instructor, chair and associate dean.

**BIOL 4291 - Laboratory Topics in Biology**

Identified by specific title each time laboratory is offered.

**BIOL 4305 - Ecology of the Amazon**

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**

Theoretical study of organisms, populations and communities related to their environments.

Prerequisite: BIOL 1306, BIOL 1307.

**BIOL 4313 - Biology of Fishes**

Systematic study of freshwater and marine fishes, including evolution, ecology, life history and economics of important species.

Prerequisite: BIOL 1306, BIOL 1307.

Corequisite: BIOL 4113

**BIOL 4314 - Freshwater Biology**

Study of the physical, chemical and biology nature of freshwater lakes, ponds, rivers and streams.

Prerequisite: BIOL 4311

Corequisite: BIOL 4114

**BIOL 4315 - Biology Practicum**

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**

Field methods for analysis of ecological systems. Field work and laboratory are required.

Prerequisite: BIOL 1306, BIOL 1307.

**BIOL 4325 - Environmental Toxicology**

Physiological and systemic interactions of environmental pollutants with plants and animals.

Prerequisite: BIOL 1306, BIOL 1307 and CHEM 2323.

**BIOL 4327 - Plant Identification**

Taxonomic study of herbaceous and woody plants of SE Texas.

Prerequisite: BIOL 1306 and BIOL 1307

### **BIOL 4332 - Histology**

A microscopic study of animal tissues including the theories of fixation and staining of clinical samples.

Prerequisite: BIOL 3373

### **BIOL 4334 - Environmental Microbiology**

A study of activity and mechanisms of microbial contribution to global ecosystems, with emphasis on geochemical cycling, bioremediation, wastewater treatment and environmental biotechnology.

Prerequisite: BIOL 1306, BIOL 1307.

### **BIOL 4335 - Forensic Biology**

Theory and techniques used in biological investigations of crimes, including toxicological, genetic and DNA analysis.

Prerequisite: BIOL 3341, BIOL 4341

### **BIOL 4341 - Biochemistry I**

Study of cellular biochemical components and metabolism.

Prerequisite: BIOL 1306, BIOL 1307 and CHEM 2323

### **BIOL 4342 - Biochemistry II**

Regulation and control of intermediary metabolism. Introduction to biochemical genetics.

Prerequisite: BIOL 4341.

### **BIOL 4343 - Plant Physiology**

Metabolic and physiological processes involved in plant growth.

Prerequisite: BIOL 1306, BIOL 1307.

### **BIOL 4344 - Comparative Animal Physiology**

Study of organ functions in major invertebrate and vertebrate phyla.

Prerequisite: BIOL 1306, BIOL 1307.

### **BIOL 4345 - Human Physiology**

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.

Prerequisite: BIOL 1306, BIOL 1307.

### **BIOL 4346 - Pathophysiology**

This course will study the abnormal physiology characteristic of diseases in humans. A physiological systems approach will be taken.

Prerequisite: BIOL 4345.

### **BIOL 4347 - Cellular Physiology**

Cell structure and function; emphasis on cytological, biochemical, genetical and developmental perspectives.

Prerequisite: BIOL 4341

### **BIOL 4348 - Developmental Biology**

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.

Prerequisite: BIOL 3341 and either BIOL 4347 or BIOL 3307.

### **BIOL 4349 - Plant Development**

Study of the developmental processes involved in seed germination, tissue differentiation, vegetative growth and transitioning to reproduction.



Prerequisite: BIOL 1306, BIOL 1307 or equivalent.

**BIOL 4351 - Molecular Biology**

General principles of molecular biology with an emphasis on gene functions in eukaryotic systems, disease at the genetic level and evolution of the gene.

Prerequisite: BIOL 3341 or BIOL 4341 or equivalent.

**BIOL 4354 - Introduction to Bioinformatics**

Introduction to bioinformatics, experimental sources of biological data, databases and operating systems (including Windows and Unix) and internet tools.

Prerequisite: BIOL 3341

**BIOL 4355 - Tissue Culture**

Students will learn how to manipulate cells in culture and develop laboratory skills in DNA transfection, gene expression, Luciferase assays and western blots.

Prerequisite: BIOL 4341 and BIOL 4242

**BIOL 4361 - Immunology**

Basic theory of humoral and cellular immune mechanisms.

Prerequisite: BIOL 3341, BIOL 4341.

**BIOL 4371 - Cancer Biology**

Cancer, genetics and heredity: prevention, detection and treatment of cancer.

Prerequisite: BIOL 3341 or BIOL 4351 or equivalent.

**BIOL 4389 - Independent Study in Biology**

Prerequisite: Approval of instructor, chair and associate dean.

**BIOL 4391 - Selected Topics in the Biological Sciences**

Identified by specific title each time course is offered.

## **CENG - COMPUTER ENGINEERING**

**CENG 3112 - Laboratory for Digital Circuits**

Laboratory experiments using digital logic and small scale integrated circuits.

Corequisite: CENG 3312.

**CENG 3113 - Laboratory for Linear Circuits**

Laboratory experiments demonstrating AC/DC circuits. Experiments using lumped constants and integrated circuits will be stressed.

Corequisite: CENG 3313.

**CENG 3114 - Laboratory for Advanced Linear Circuits**

Experiments emphasizing the design and analysis of linear lumped-constant circuits.

Corequisite: CENG 3314.

**CENG 3115 - Laboratory for Introduction Digital Signal Processing**

Laboratory experiments in Digital Signal Processing.

Corequisite: CENG 3315.

**CENG 3131 - Laboratory for Telecommunications and Networks**

Laboratory experiments in digital and data communications.

Corequisite: CENG 3331.

**CENG 3151 - Laboratory for Computer Architecture**

Laboratory experiments for Computer Architecture Design and Interfacing.

Prerequisite: CENG 3312, CENG 3112

Corequisite: CENG 3351

### **CENG 3264 - Engineering Design and Project Management**

Introduction to engineering concepts including problem solving, the design process, engineering tools and topics in ethics. Laboratory instruction.

### **CENG 3312 - Digital Circuits**

Applications of point set theory and Boolean Algebra to the analysis and design of asynchronous and synchronous digital circuits.

Prerequisite: MATH 2414, PHYS 2326, PHYS 2126

Corequisite: CENG 3112.

### **CENG 3313 - Linear Circuits**

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.

Prerequisite: MATH 2414, PHYS 2326, PHYS 2126

Corequisite: CENG 3113

### **CENG 3314 - Advanced Linear Circuits**

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.

Prerequisite: CENG 3113, CENG 3313

Corequisite: CENG 3114

### **CENG 3315 - Introduction to Digital Signal Processing**

Sinusoids, spectrum representation, sampling and aliasing, FIR and IIR digital filters. Laboratory instruction.

Prerequisite: CSCI 1320, MATH 2413, MATH 2414

Corequisite: CENG 3115

### **CENG 3331 - Introduction to Telecommunications and Networks**

Introduction to data communications, error detecting/correcting codes, multiplexing, circuit and packet switching and local area networks.

Prerequisite: CENG 3312

Corequisite: CENG 3131

### **CENG 3351 - Computer Architecture**

Control logic, addressing, registers, instructions, memory units, arithmetic elements, interrupts and input-output structures.

Prerequisite: CENG 3312

Corequisite: CENG 3151

### **CENG 3371 - Microcontroller Programming**

Microcontroller, assembly language programming and embedded system applications.

Prerequisite: CSCI 1320 or equivalent.

### **CENG 4113 - Laboratory for Microprocessor Interfacing**

Laboratory experiments interfacing the Intel microcomputer to peripherals, memory, and other devices.

Corequisite: CENG 4313

**CENG 4289 - Independent Study in Computer Engineering**

Prerequisite: Approval of instructor, chair and associate dean.

**CENG 4189 - Independent Study in Computer Engineering**

Prerequisite: Approval of instructor, chair and associate dean.

**CENG 4195 - Cooperative Education Work Term**

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.)

Prerequisite: Approved Candidate Plan of Study, completed cooperative education file and approval of associate dean and Director of Cooperative Education.

**CENG 4265 - Senior Project**

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.

Prerequisite: Final year before graduation or permission of instructor.

**CENG 4266 - Senior Project**

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.

Prerequisite: Final year before graduation or permission of instructor.

**CENG 4311 - Telecommunications Networking Devices**

Modems, multiplexers, data communications network analysis, bridges, routers, client/server concepts and NOS software.

Prerequisite: CENG 3331.

**CENG 4313 - Microprocessor Interfacing**

Techniques for interfacing microcomputers to peripherals, memory and other devices.

Prerequisite: CENG 3351, CENG 3371

Corequisite: CENG 4113

**CENG 4315 - Digital Signal Processing Applications**

Fundamental concepts in Digital Signal Processing applications with algorithmic implementations using Texas Instruments, DSPs and XILINX Field Programmable Gate Arrays.

Prerequisite: CENG 3115, CENG 3315

**CENG 4321 - Telecommunications Switching Systems**

Introduction to switching systems, digital switching, ISDN and ATM networking. Laboratory instruction.

Prerequisite: CENG 3331 or equivalent.

**CENG 4331 - Analysis and Design of Linear Systems**

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.

Prerequisite: CENG 3314

**CENG 4341 - Computer System Reliability and Safety**

Computer reliability and safety models and metrics, redundancy and recovery techniques, fault tree analysis.

Prerequisite: MATH 4344 or equivalent, SWEN 4342.

**CENG 4354 - Digital System Design**

Combinational and sequential circuit design of digital systems using a hardware description language. Laboratory instruction.

Prerequisite: CENG 3312 or equivalent.

**CENG 4362 - Digital Control Design**

Analysis and design of digital control systems with applications critical systems.

Prerequisite: CENG 4331.

**CENG 4365 - Senior Project**

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.

Prerequisite: Final year before graduation or permission of instructor.

**CENG 4389 - Independent Study in Computer Engineering**

Prerequisite: Approval of instructor, chair and associate dean.

**CENG 4391 - Selected Topics in Computer Engineering**

Identified by specific title each time course is offered.

## CHEM - CHEMISTRY

**CHEM 1105 - Laboratory for Introductory Chemistry I**

Laboratory for introductory chemistry that may include topics in inorganic, organic, biochemistry, food/physiological chemistry, forensic and environmental/ consumer chemistry.

Corequisite: CHEM 1305

**CHEM 1111 - Laboratory for General Chemistry I**

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.

Corequisite: CHEM 1311

**CHEM 1112 - Laboratory for General Chemistry II**

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.

Corequisite: CHEM 1312

**CHEM 1275 - Survey of Forensic Chemistry**

This course will survey current methods in Forensic Science (especially chemistry) by examining real cases.

**CHEM 1305 - Introductory Chemistry I**

A survey course introducing chemistry, including topics in inorganic, organic, biochemistry, food/physiological chemistry, forensic and environmental/ consumer chemistry. Designed for non-science majors.

Corequisite: CHEM 1105

**CHEM 1311 - General Chemistry I**

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.

Corequisite: CHEM 1111

**CHEM 1312 - General Chemistry II**

Chemical equilibrium; phase diagrams and spectrometry; acid-base concepts; thermodynamics; kinetics; electrochemistry; nuclear chemistry; an introduction to organic chemistry and descriptive inorganic chemistry.

Prerequisite: CHEM 1311

Corequisite: CHEM 1112

**CHEM 1372 - Diet and Nutrition Chemistry**

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**

This course provides hands-on training on analysis, sampling, statistical treatment and basic skills in analytical chemistry.

Prerequisite: CHEM 1311, CHEM 1312

Corequisite: CHEM 2301

**CHEM 2102 - Laboratory for Analytical Chemistry II**

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.

Prerequisite: CHEM 1311, CHEM 1312

Corequisite: CHEM 2302

**CHEM 2123 - Laboratory for Organic Chemistry I**

Basic techniques and procedures in isolation, purification and characterization of organic compounds and simple reactions used in the organic chemistry lab.

Prerequisite: CHEM 1311, CHEM 1312

Corequisite: CHEM 2323

**CHEM 2125 - Laboratory for Organic Chemistry II**

Extension of CHEM 2123; building from basic procedures and lab techniques to a more advanced level.

Prerequisite: CHEM 1311, CHEM 2123

Corequisite: CHEM 2325

**CHEM 2301 - Analytical Chemistry I**

An introduction to the theory of analytical chemistry; different approaches to analysis, sampling, statistical treatment and basic principles in analytical chemistry.

Prerequisite: CHEM 1311, CHEM 1312

Corequisite: CHEM 2101

**CHEM 2302 - Analytical Chemistry II**

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).

Prerequisite: CHEM 1311, CHEM 1312

Corequisite: CHEM 2101

**CHEM 2323 - Organic Chemistry I**

Study of properties and behavior of hydrocarbon compounds and their derivatives. Designed for students in science or pre-professional programs.

Prerequisite: CHEM 1311, CHEM 1312

Corequisite: CHEM 2123

**CHEM 2325 - Organic Chemistry II**

Continuation of properties and behavior of hydrocarbon compounds and their derivatives. Designed for students in science or pre-professional programs.

Prerequisite: CHEM 1311, CHEM 2323

Corequisite: CHEM 2125

**CHEM 2377 - Life and the Universe**

Origin of the Universe, origin and evolution of life and the possibilities for finding life on other planets, including the search for extra-terrestrial intelligence.

**CHEM 3303 - Nutrition and Food Chemistry**

Designed for understanding the nature of food constituents including proteins, lipids, carbohydrates, vitamins, minerals and molecular functions of the food constituents, food safety and how nutrients affect pathogenesis and health. Critically review information, claims and fads as pertaining to nutrition and health.

Prerequisite: CHEM 1311 and CHEM 1312

**CHEM 3320 - Survey of Physical Chemistry**

Appropriate for students pursuing the BA in Chemistry or a BS in Environmental Science. An overview of physical chemistry, thermodynamics, molecular structure, spectroscopy.

Prerequisite: CHEM 1311, CHEM 1312 and MATH 2413 and PHYS 1301, PHYS 1302.

**CHEM 3333 - Environmental Chemistry**

Chemical processes and reactions related to chemical pollution problems and their control in the atmosphere, soils and waters.

Prerequisite: CHEM 1311, CHEM 1312 or equivalent.

**CHEM 4189 - Independent Study in Chemistry**

Prerequisite: Approval of instructor, chair and associate dean.

**CHEM 4195 - Cooperative Education Work Term**

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.)

Prerequisite: 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**

Laboratory principles and practice in physical chemistry. Six laboratory hours each week. CHEM 4321 may be taken concurrently.

Prerequisite: CHEM 4321

**CHEM 4235 - Advanced Lab for Inorganic Chemistry**

Laboratory principles and basic manipulation skills used during the preparation and characterization of inorganic compounds.

Prerequisite: CHEM 1311, CHEM 1312 and CHEM 2323

**CHEM 4242 - Laboratory for Biochemistry**

Laboratory principles and practices in cellular biochemistry. One hour of lecture and 3 hours of laboratory per week.

Prerequisite: CHEM 4341 or corequisite

### **CHEM 4251 - Laboratory for Environmental Analysis**

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.

Prerequisite: CHEM 3333 or corequisite

### **CHEM 4310 - Advanced Chemical Calculations**

Prepares chemistry and biology students for math in Physical Chemistry and Biochemistry, using examples geared to these subjects.

Prerequisite: CHEM 1311, CHEM 1312, MATH 2413, MATH 2414 or PHYS 2325, PHYS 2326

### **CHEM 4311 - Chemical Origins**

Origin of the universe and the chemical elements, pre-biotic chemistry and the origin of life.

Prerequisite: CHEM 1311, CHEM 1312 and PHYS 1301, PHYS 1302 or PHYS 2325 and PHYS 2326.

### **CHEM 4312 - Principles of Astrobiochemistry**

Overview of the search for life in the universe, including chemical signatures of life on other planets.

Prerequisite: CHEM 1311, CHEM 1312 and PHYS 1301, PHYS 1302 or PHYS 2325, PHYS 2326.

### **CHEM 4315 - Handedness in Science**

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.

Prerequisite: CHEM 1311, CHEM 1312 and PHYS 1301, PHYS 1302 or PHYS 2325, PHYS 2326

### **CHEM 4321 - Physical Chemistry I**

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

Prerequisite: CHEM 1311, CHEM 1312, MATH 2413, MATH 2414, PHYS 2325 and PHYS 2326 and CHEM 4310.

### **CHEM 4322 - Physical Chemistry II**

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.

Prerequisite: CHEM 1311, CHEM 1312, MATH 2413, MATH 2414 and PHYS 2325, PHYS 2326 and CHEM 4310.

### **CHEM 4328 - Introduction to Medicinal Chemistry**

Overview of key biological and biochemical concepts and the general tactics and strategies involved in developing an effective drug.

Prerequisite: CHEM 2323, CHEM 2325

### **CHEM 4335 - Inorganic Chemistry**

Concepts and systems of inorganic chemistry; atomic structure, molecular structure and bonding, ionic crystals, solid state defects and coordination compounds.

Prerequisite: CHEM 1311, CHEM 1312 and CHEM 2323

### **CHEM 4341 - Biochemistry I**

Study of cellular biochemical components and metabolism.

Prerequisite: CHEM 2323, CHEM 4310 strongly recommended.

**CHEM 4342 - Biochemistry II**

Regulation and control of intermediary metabolism. Introduction to biochemical genetics.

Prerequisite: CHEM 4341.

**CHEM 4352 - Water Chemistry and Water Pollution**

Study of chemical equilibria in natural waters, water quality parameters, water sampling, important water pollutants and their fate.

Prerequisite: CHEM 1311, CHEM 1312 and CHEM 2323.

**CHEM 4355 - Environmental Sampling and Monitoring**

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.

Prerequisite: STAT 3308.

**CHEM 4356 - Soil & Groundwater Remediation**

Chemical, biological, geological principles and applications of various remediation techniques commonly used to clean up contaminated soils and groundwater.

Prerequisite: CHEM 3333.

**CHEM 4357 - Introduction to Biofuel**

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.

Prerequisite: CHEM 2323 and CHEM 2325

**CHEM 4358 - Industrial Chemistry: Process and Environment**

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.

Prerequisite: CHEM 2323 and CHEM 2325

**CHEM 4359 - Drug Design and Synthesis**

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.

Prerequisite: CHEM 2323 and CHEM 2325

**CHEM 4360 - Bio-organic and Medicinal Chemistry**

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.

Prerequisite: CHEM 2323, CHEM 2325

**CHEM 4363 - Forensic Chemistry**

Provides students training in drug chemistry, chemistry of addiction, arson investigation, chemistry of explosives, poisons, estimating the time of death.

Prerequisite: CHEM 1311, CHEM 1312 or equivalent.

**CHEM 4365 - Introduction to Polymer Chemistry**

Introduction to chemistry, structure and properties of polymers.

Prerequisite: CHEM 1311 and CHEM 1312



**CHEM 4367 - Instrumental Analysis**

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.

Prerequisite: CHEM 2323 and CHEM 2325

**CHEM 4368 - Advanced Organic Chemistry**

Advanced mechanistic study of the relationship between structure and reactivity in organic chemistry.

Prerequisite: CHEM 2323, CHEM 2325 or equivalent.

**CHEM 4370 - Industrial Chemistry: Process and Environment**

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.

Prerequisite: CHEM 2323, CHEM 2325

**CHEM 4371 - Advanced Spectroscopic Analysis**

Designed for students seeking advanced analytical studies through practical spectra analysis.

Prerequisite: CHEM 2323, CHEM 2325

**CHEM 4372 - Chemistry Seminar**

The selection, study and formal presentation of topics from the chemical literature.

Prerequisite: Approval of instructor.

**CHEM 4373 - Quantitative Chemical Analysis**

Designed for students seeking advanced analytical studies through Quantitative Chemical Analysis.

Prerequisite: CHEM 2323, CHEM 2325

**CHEM 4374 - Surface Chemical Processing**

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.

Prerequisite: CHEM 1311, CHEM 1312

**CHEM 4375 - Petroleum Geology**

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**

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.

Prerequisite: CHEM 1311, CHEM 1312

**CHEM 4379 - Undergraduate Research in Chemistry**

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**

Prerequisite: Approval of instructor, chair and associate dean.

**CHEM 4391 - Selected Topics in Chemistry**

Identified by specific title each time course is offered.

# CINF - COMPUTER INFORMATION SYSTEMS

## **CINF 1370 - Introduction to Computer Information Systems**

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**

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**

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.

Prerequisite: A high level programming language.

## **CINF 3331 - Business Data Communications**

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.

Prerequisite: CSCI 1470

## **CINF 3391 - Topics in Computer Information Systems**

Identified by specific title each time course is offered. Laboratory instruction.

## **CINF 4189 - Independent Study in Computer Information Systems**

Prerequisite: Approval of instructor, chair and associate dean.

## **CINF 4195 - Cooperative Education Work Term**

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.)

Prerequisite: 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**

Prerequisite: Approval of instructor, chair and associate dean.

## **CINF 4308 - Topics in Computer Information Systems-Non-Majors**

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**

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.

Prerequisite: CSCI 2315

## **CINF 4323 - Computer Security**

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.

Prerequisite: CSCI 3331, CSCI 3352.

**CINF 4324 - Modern System Analysis and Design**

Key concepts and principles of systems analysis; Techniques and tools of the systems analysis methodology; Current issues of systems analysis and business process reengineering.

Prerequisite: CINF 3321.

**CINF 4334 - Electronic Commerce**

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.

Prerequisite: CINF 4320 or approval of instructor.

**CINF 4364 - Computer Systems Administration**

Administration of computers and their operating systems, both as stand-alone and in network topologies. Unix is used as an example. Laboratory instruction.

Prerequisite: CSCI 2315.

**CINF 4379 - Internship in Computer Information Systems**

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.

**CINF 4381 - Computer Forensics**

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.

Prerequisite: CSCI 1471 or CSCI 1370

**CINF 4388 - Senior Project in Computer Information Systems**

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.

Prerequisite: CSCI 4333 and SWEN 4342.

**CINF 4389 - Independent Study in Computer Information Systems**

Prerequisite: Approval of instructor, chair and associate dean.

**CINF 4391 - Selected Topics in Computer Information Systems**

Identified by specific title each time course is offered. Laboratory instruction.

## COMM - COMMUNICATION

**COMM 1307 - Introduction to Mass Communication**

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**

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**

Overview of persuasive communication as it pertains in theory and practice to public relations, marketing and advertising practices.

**COMM 3321 - Media Writing**

Journalistic writing, including fact gathering, news and feature writing styles, publication relations, and freelance writing.

**COMM 3350 - Visual Communication**

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.

Prerequisite: ARTS 2371 Digital Photography

**COMM 3351 - Mass Media and Society**

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.

Prerequisite: COMM 1307 Introduction to Mass Communication.

**COMM 3352 - Media Law**

Legal issues as pertinent to the professional communicator.

**COMM 3353 - Alternative Media Marketing**

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.

Prerequisite: Junior or Senior level standing.

**COMM 3354 - Gathering Information**

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**

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**

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**

Fundamentals of Web design, including graphical editors, basic layouts, colors, and accessibility standards.

Prerequisite: ARTS 2371 Digital Photography or permission of instructor.

**COMM 3361 - Advanced Web Design**

Introduction to creating client-based projects using HTML, XHTML, and CSS. Introduction to Javascript.

Prerequisite: ARTS 2371 Digital Photography and COMM 3360 Web Design or permission of instructor.

**COMM 4061 - Communication Portfolio**

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.

**COMM 4161 - Communication Portfolio**

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**

Permission of instructor required. May be taken for 1 hour of credit. For 3 hours of Independent Study credit, students should enroll in COMM 4389 Independent Study in Communications.

**COMM 4301 - Global Issues in Film**

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.

Prerequisite: Junior/Senior status

**COMM 4322 - Public Relations Writing**

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.

Prerequisite: COMM 3320 Principles of Public Relations and COMM 3321 Media Writing or equivalent.

**COMM 4346 - 2D Animation**

Instruction in 2D animation, user interactivity, and publishing files.

Prerequisite: ARTS 2371 Digital Photography, ARTS 3360 Graphic Design and COMM 3360 Web Design or permission of instructor.

**COMM 4350 - 3D Computer Modeling**

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.

Prerequisite: ARTS 2371 Digital Photography and ARTS 3360 Graphic Design or permission of instructor.

**COMM 4351 - 3D Animation**

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.

Prerequisite: COMM 4350 3D Computer Modeling.

**COMM 4352 - Photojournalism**

Exploration of photography as a form of journalistic storytelling. Includes study of technical and emotional aspects of photographs as well as techniques in Photoshop.

Prerequisite: ARTS 2371 Digital Photography.

**COMM 4353 - Advanced Media Writing**

Course covers methods and practice in the research, writing, and editing of professional quality messages for print, public relations, and broadcast.

Prerequisite: COMM 3321 Media Writing

**COMM 4354 - Video Production I**

Basic understanding of the technology behind video production as an information medium using non-linear editing equipment. Emphasis on concept, newsworthiness, technique, and effect on audience.

Prerequisite: ARTS 2371 Digital Photography

**COMM 4355 - Video Production 2**

Advanced editing tools such as Final Cut Pro Timeline, Garageband, Live Type, and DVD pro.

Prerequisite: ARTS 2371 Digital Photograph and COMM 4354 Video Production I.

### **COMM 4356 - Magazine Publication**

Laboratory course covering magazine production.

Prerequisite: COMM 3321 Media Writing

### **COMM 4358 - Publication Design**

Coverage of theory and technology related to creation of graphic products for offset printing. Includes examination of Photoshop, Illustrator, InDesign, and other software applications.

Prerequisite: ARTS 2371 Digital Photography.

### **COMM 4379 - Communication Internship**

A supervised on-site internship in a communication capacity.

Prerequisite: Must pass GSP test.

### **COMM 4381 - Project Management**

Introduction to project management practices and tools used to manage a variety of multimedia and communication projects.

### **COMM 4389 - Independent Study in Communication**

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**

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**

Laboratory course covering journalistic writing, fact gathering, photography, videography, graphic design, social media, and advertising. Students will produce the student newspaper, *The Signal*.

Prerequisite: Must pass GSP test, COMM 3321 Media Writing.

## **CRIM - CRIMINOLOGY**

### **CRIM 1301 - Introduction to Criminal Justice**

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**

Theories of causation; patterns and social response.

Cross-Listed as: SOCI 3312 Criminology.

### **CRIM 3313 - Policing Universities and Colleges**

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**

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**

Theories of the existence of deviance in society; management of spoiled identities.

Cross-Listed as: SOCI 3335 Deviance.

### **CRIM 4313 - Juvenile Delinquency**

Individual and community aspects of juvenile delinquency; theories of causes and modes of control.

Cross-Listed as: SOCI 4313 Juvenile Delinquency.

**CRIM 4315 - The Death Penalty**

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**

Review of methods and techniques used by investigators to reconstruct a crime in order to arrest the criminal offender.

**CRIM 4331 - Prison and Society**

Correctional institutions in the United States; analysis of their changing roles and functions.

Cross-Listed as: SOCI 4331 Prison and Society

**CRIM 4332 - Social Problems and the Legal System**

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**

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**

Survey of structure and philosophy of criminal law; topics include criminal liability, criminal defenses, and types of offenses.

Cross-Listed as: CRIM 5338 Criminal Law, SOCI 4334 Criminal Law, and SOCI 5338 Criminal Law.

**CRIM 4335 - Race and Justice**

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**

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.

**CRIM 4338 - Policing and Society**

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**

Introductory course in statistics in criminology. Topics include both basic descriptive and inferential statistics.

**CRIM 4385 - Research Methods**

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**

Permission of instructor required.

**CRIM 4390 - Contemporary Issues in Criminology**

Course assesses students' skills in theory, research, and subject content. Explores the many opportunities provided by degree in Criminology.

Prerequisite: Completion of at least 80 credits and at least four courses in Criminology.

**CRIM 4391 - Selected Topics in Criminology**

Identified by specific title each time course is offered. Topics vary; may be repeated for credit with permission of instructor.

# CSCI - COMPUTER SCIENCE

## CSCI 1318 - Pascal Programming I

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

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

Software development with the Java programming language and the Java class libraries. Design of applets and standalone Java applications. Laboratory instruction.

Prerequisite: CSCI 1320 or CSCI 1470

## CSCI 1470 - Computer Science I

Basic computing concepts including binary and hexadecimal number systems, data types, problem solving using flowcharts and pseudocode, conditional and looping structures, arrays and lists, files, test plans and subprograms.

## CSCI 1471 - Computer Science II

Object-oriented programming concepts including data abstraction, classes, inheritance, polymorphism, exception handling and UML.

Prerequisite: CSCI 1320 or CSCI 1470 and MATH 2413

## CSCI 2315 - Data Structures

Further applications of programming techniques. Topics may include file access methods, data structures and modular programming, program testing and documentation.

Prerequisite: CSCI 1320 and CSCI 1370 or CSCI 1471

## CSCI 3303 - Fundamentals of Programming

An introduction to the concepts of data structures for non-computing majors, including records, tables, linked lists, stacks and queues. Abstract data types, recursion, searching, sorting and an introduction to binary trees. Not to be taken by computing and engineering majors. Laboratory instruction.

Prerequisite: A programming language.

## CSCI 3311 - Programming With Visual Basic

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

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.

Prerequisite: MATH 2318, MATH 2320, CSCI 1471 or both CSCI 1320 and CSCI 1370

## CSCI 3323 - Object-Oriented Design and Programming

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.

Prerequisite: CSCI 1320 or CSCI 1370



**CSCI 3331 - Computer Organization and Assembly Language**

Basic elements of computer hardware and software, data representations, instruction formats and addressing modes, assembly language instructions, programming techniques in assembly language, macro assemblers, link-loaders, functions of operating systems and input/output programming and peripherals. Laboratory instruction.

Prerequisite: CSCI 2315, MATH 2305, MATH 2414, PHYS 2325 and PHYS 2326

**CSCI 3352 - Advanced Data Structures and Algorithms**

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.

Prerequisite: CSCI 2315, MATH 2305, MATH 2414, PHYS 2325 and PHYS 2326.

**CSCI 3362 - Artificial Intelligence Programming Languages**

An introduction to AI programming languages. Programming assignments in LISP and Prolog. Laboratory instruction.

Prerequisite: CSCI 2315.

**CSCI 3391 - Selected Topics in Computing**

Identified by specific title each time course is offered.

**CSCI 4189 - Independent Study in Computer Science**

Prerequisite: Approval of instructor, chair and associate dean.

**CSCI 4195 - Cooperative Education Work Term**

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.)

Prerequisite: 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**

Prerequisite: Approval of instructor, chair and associate dean.

**CSCI 4303 - Concepts of Database Systems**

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.

Prerequisite: CSCI 3303.

**CSCI 4307 - Computing Essentials**

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**

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**

Data communications systems software concepts; computer network architecture; ISO model. Laboratory instruction.

Prerequisite: CSCI 2315

**CSCI 4314 - Advanced Software Design with Java**

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.

Prerequisite: CSCI 1370 or CSCI 1471

**CSCI 4315 - Advanced Software Development With .Net Framework and C#**

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, multi-threading, networking, collections, file and database access as well as an introduction to ASP.NET, Web Forms and Web Services.

Prerequisite: CSCI 2315

**CSCI 4320 - Web Application Development**

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.

Prerequisite: CSCI 2315.

**CSCI 4323 - Computer Security**

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.

Prerequisite: CSCI 1370 or CSCI 1471

**CSCI 4333 - Design of Database Systems**

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.

Prerequisite: CSCI 2315.

**CSCI 4350 - Computer Graphics and Interface Design**

Two-dimensional graphics algorithms, point and coordinate transformations, animation on graphics terminals and systems. Laboratory instruction using Solaris X-Windows-environment.

Prerequisite: MATH 2318, MATH 2413

**CSCI 4351 - Advanced Programming in Unix**

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.

Prerequisite: CSCI 1320, CSCI 2315

**CSCI 4354 - Operating Systems**

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.

Prerequisite: CSCI 2315, CSCI 3331, MATH 2305, MATH 2414, PHYS 2325 and PHYS 2326

Corequisite: CENG 3351

**CSCI 4362 - Computer Game Programming: Theory and Practice**

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.

Prerequisite: One of CSCI 1320, CSCI 1370, CSCI 1470 or a high level programming language.

**CSCI 4364 - Computer Systems Administration**

Administration of computers and their operating systems, both as stand-alone and in network topologies. Unix is used as an example. Laboratory instruction.

Prerequisite: CSCI 2315 and senior standing.

**CSCI 4379 - Internship in Computer Science**

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.

**CSCI 4381 - Computer Forensics**

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.

Prerequisite: CSCI 1471 or CSCI 1370

**CSCI 4388 - Senior Project in Computer Science**

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.

Prerequisite: CSCI 3352 and SWEN 4342.

**CSCI 4389 - Independent Study in Computer Science**

Prerequisite: Approval of instructor, chair and associate dean.

**CSCI 4391 - Selected Topics in Computer Science**

Identified by specific title each time course is offered.

## DSCI - DECISION SCIENCES

**DSCI 3321 - Statistics I**

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.

Prerequisite: Prerequisites: Finite Math and Business Calculus

**DSCI 3322 - Statistics II**

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.

Prerequisite: DSCI 3321 or equivalent.

**DSCI 3331 - Quantitative Methods for Management**

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.

Prerequisite: DSCI 3321 or equivalent.

**DSCI 4351 - Forecasting Systems**

Techniques for forecasting; time series, statistical methods and analysis of error.

Prerequisite: DSCI 3321 or equivalent.

**DSCI 4389 - Independent Studies in Decision Sciences**

Independent directed study in Decision Sciences.

Prerequisite: Approval of instructor, Faculty Chair and Associate Dean required.

**DSCI 4391 - Selected Topics in Decision Sciences**

Identified by specific title each time course is offered.

## **ECED - EARLY CHILDHOOD EDUCATION**

**ECED 1303 - Children and Families**

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**

Historical, societal, political, and economic factors that influence progressive early childhood programs and child services. Field experiences required.

**ECED 1318 - Nutrition, Health and Safety**

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**

Focus on historic and current theories of children's learning and development.

**ECED 4302 - Developing Competence in Young Children**

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.

Prerequisite: ECED 1354, INST 3313 and TCED 4303

**ECED 4303 - Child Guidance & Classroom Management for Young Children**

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**

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**

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**

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**

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**

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**

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.

Prerequisite: LLS 4311 and LLS 4345.

**ECED 4314 - Observational/Developmental Assessment of Young Children**

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.

Prerequisite: ECED 4302.

**ECED 4320 - Play**

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**

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**

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.

Prerequisite: SILC 4315.

**ECED 4323 - Preschool Curriculum**

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**

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**

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**

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**

A study of atypical development in infants and young children with a focus on educational planning and programming. Field experiences required.

Prerequisite: SPED 4300 or SPED 5030.

### **ECED 4333 - Advanced Early Childhood Special Education**

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**

Supervised field experience in an approved early childhood educational setting. Permission of instructor required.

### **ECED 4389 - Independent Study in Early Childhood Education**

Prerequisite: Approval of instructor and associate dean.

### **ECED 4391 - Selected Topics in Early Childhood Education**

Identified by title each time course is offered.

## **ECON - ECONOMICS**

### **ECON 2301 - Principles of Macroeconomics**

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**

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**

The role of money and the banking system in the economy; monetary theory and policy and international monetary conditions.

Prerequisite: Principles of economics.

### **ECON 3321 - Development Economics**

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. Prerequisite: Principles of Macroeconomics

Prerequisite: Principles of Macroeconomics

### **ECON 3361 - Industrial Organization**

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. Prerequisite: Principles of Macroeconomics

Prerequisite: Principles of Microeconomics

### **ECON 3371 - Public Finance**

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. Prerequisite: Principles of Microeconomics

Prerequisite: Principles of Microeconomics

### **ECON 3381 - Energy and Environmental Economics**

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. Prerequisite: Principles of Microeconomics

Prerequisite: Principles of Microeconomics

### **ECON 3391 - Sports Economics**

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. Prerequisite: Principles of Microeconomics

Prerequisite: Principles of Microeconomics

## **EDUC - EDUCATION**

### **EDUC 1301 - Introduction to Education**

### **EDUC 2301 - Introduction to Special Education**

### **EDUC 4300 - School and Community**

Historical, legal and philosophical foundations of education in American society.

### **EDUC 4310 - Theories of Educational Psychology**

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**

Prerequisite: Approval of instructor and associate dean.

### **EDUC 4391 - Selected Topics in Education**

Identified by specific title each time course is offered.

## **EENG - ELECTRICAL ENGINEERING**

### **EENG 2105 - Lab for Electrical Circuits I**

This laboratory will provide the student hands on experience with linear circuits.

### **EENG 2305 - Electrical Circuits I**

Projects will be introduced in this course and students will design linear circuits that meet the requirements of the assigned projects as part of the laboratory experience.

## **ENGR - ENGINEERING**

### **ENGR 1201 - Introduction to Engineering**

An introduction to the engineering profession with emphasis on technical communication and team-based engineering design.

Prerequisite: MATH 1314 or equivalent.

**ENGR 1304 - Engineering Graphics I**

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.

Prerequisite: MATH 1314 or equivalent.

**ENGR 2105 - Laboratory for Electrical Circuits I**

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.

Corequisite: ENGR 2305

**ENGR 2302 - Dynamics**

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.

Prerequisite: ENGR 2301

**ENGR 2305 - Electrical Circuits I**

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.

Prerequisite: PHYS 2325, PHYS 2125, MATH 2414

**ENGR 2334 - Thermodynamics I**

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 biomolecular 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.

**ENSC - ENVIRONMENTAL SCIENCE****ENSC 1101 - Laboratory for Environmental Science I**

Laboratory exercises include water, soil and air testing, field sampling and observations. Optional and required field trips. Not for biology or environmental science majors.

Corequisite: ENSC 1301

**ENSC 1102 - Laboratory for Environmental Science II**

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.

Corequisite: ENSC 1302

**ENSC 1301 - Environmental Science I**

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.

Corequisite: ENSC 1101



### **ENSC 1302 - Environmental Science II**

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.

Corequisite: ENSC 1102

### **ENSC 4189 - Independent Study in Environmental Science**

Prerequisite: Approval of instructor, chair and associate dean.

### **ENSC 4195 - Cooperative Education Work Term**

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.)

Prerequisite: 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**

Prerequisite: Approval of instructor, chair and associate dean.

### **ENSC 4333 - Introduction to Global Climate Change**

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**

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**

Supervised work experience in an approved industrial firm or governmental agency. Written and oral reports required.

Prerequisite: 15 hours of upper-level credit; approval of faculty adviser and associate dean.

### **ENSC 4389 - Independent Study in Environmental Science**

Prerequisite: Approval of instructor, chair and associate dean.

### **ENSC 4391 - Topics in Environmental Science**

Identified by specific title each time course is offered.

## **ENVR - ENVIRONMENTAL MANAGEMENT**

### **ENVR 3311 - Foundations of Environmental Management**

Presentation, analysis and application of the principles of managing human interaction with the environment.

### **ENVR 4189 - Independent Studies in Environmental Management**

(Variable credit, 1 or 3 semester hours.) Independent directed study in Environmental Management.

Prerequisite: Approval of instructor, Faculty Chair and Associate Dean required.

### **ENVR 4311 - Principles of Air Quality Management**

Analysis of practices and technology for the control of atmospheric pollution.

Prerequisite: Introductory chemistry, ENVR 3311 or equivalents.

### **ENVR 4312 - Water Management Principles**

Principles of effective water resources management; national and state water resource practices.

Prerequisite: Introductory chemistry, ENVR 3311 or equivalents.

**ENVR 4313 - Techniques of Environmental Assessment**

Familiarization with and basic critique of environmental impact assessment, environmental auditing and other decision and planning tools.

Prerequisite: ENVR 3311 and ENVR 4315 or equivalents.

**ENVR 4315 - Introduction to Environmental Law**

Application of legal concepts and systems to environmental issues; basic federal and state environmental legislation.

**ENVR 4317 - Solid Waste Management Practices**

A study of the management practices and technology used for non-hazardous solid waste collection, treatment, disposal and reuse.

**ENVR 4331 - Environmental Public Policy**

Current environmental issues: problems, causes, alternative solutions and economic and health implications.

**ENVR 4332 - The Process of Environmental Permitting**

A practical survey of the permits and procedures used by environmental agencies for regulatory control.

**ENVR 4333 - Introduction to Pollution Control Technology**

An introduction to the technical aspects of pollution control including principles, equipment applications, manpower and energy requirements and economic factors.

Prerequisite: ENVR 3311 or equivalent.

**ENVR 4336 - Administrative Practice and Ethical Issues**

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**

Supervised field experience with an approved agency or office. Written and oral reports required.

Prerequisite: Prerequisite: Approval of faculty adviser and program director.

**ENVR 4389 - Independent Studies in Environmental Management**

(Variable credit, 1 or 3 semester hours.) Independent directed study in Environmental Management.

Prerequisite: Approval of instructor, Faculty Chair and Associate Dean required.

**ENVR 4391 - Selected Topics in Environmental Management**

Identified by specific title each time course is offered.

## **FINC - FINANCE**

**FINC 3301 - Personal Money Management**

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. Prerequisite: must have completed 30 SCH

Prerequisite: Must have completed 30 SCH.

**FINC 3331 - Business Finance**

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.

Prerequisite: Principles of accounting (ACCT 2301 and 2302), principles of economics (ECON 2301NS 2302) and DSCI 3321 or equivalent.

**FINC 3333 - Intermediate Financial Management**

Advanced principles and practices in the financial administration of business enterprises.

Prerequisite: FINC 3331 or equivalent.

**FINC 3336 - Risk Management**

Techniques for managing pure risks for individuals and small businesses, and the characteristics of life, health, and property insurance are studied.

Prerequisite: FINC 3331 or equivalent.

**FINC 3351 - Real Estate Investment Analysis**

Analytical foundations of evaluating real estate investments and exploration of the methods of financing such investments. Prerequisite: ECON 2301 or equivalent

**FINC 3353 - Investments**

Personal investments in bonds, mortgages, stocks and other securities; financial statements and credit.

Prerequisite: FINC 3331 and FINC 3333 or equivalents.

**FINC 4331 - Contemporary Financial Institutions**

Management policies of commercial banks, savings and loan associations, credit unions, finance companies and other financial intermediaries.

Prerequisite: FINC 3331 or equivalent.

**FINC 4341 - Structure of Financial Statements**

Evaluation of the structure of financial statements and their use in financial decision-making.

Prerequisite: FINC 3331; ACCT 3341 or ACCT 3332; or equivalents.

**FINC 4351 - International Financial Operations**

International transactions and financial flows; balance of payments, foreign exchange market, worldwide commercial policy and financing.

Prerequisite: FINC 3331 or equivalent.

**FINC 4352 - Seminar in International Finance**

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**

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**

An analysis of the federal income tax laws as they apply to individuals and the financial planning process. (Cross listed with ACCT 4331.)

Prerequisite: FINC 3331 and Principles of Accounting, or equivalents.

**FINC 4361 - Treasury Management**

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.

Prerequisite: FINC 3331 or equivalent.

**FINC 4373 - Retirement and Benefits Planning**

Examination of the various retirement vehicles, group life and health programs, and government required benefits. Integration into an overall financial planning process is emphasized.

Prerequisite: FINC 3331 and FINC 3353 or equivalents.

**FINC 4376 - Estate Planning**

Examination of federal and state laws concerning the distribution of assets in an estate. Significant attention is made to tax minimization strategies.

Prerequisite: FINC 3331 and FINC 3353 or equivalents.

**FINC 4379 - Internship in Finance**

Six hours of supervised work experience each week in an approved financial institution or firm.

Prerequisite: 15 hours of upper-level credit and approval of program director.

**FINC 4389 - Independent Studies in Finance**

Independent directed study in Finance.

Prerequisite: Approval of instructor, Faculty Chair and Associate Dean required.

**FINC 4391 - Selected Topics in Finance**

Identified by specific title each time course is offered.

## **GEOG - GEOGRAPHY**

**GEOG 1301 - Modern Physical Geography**

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**

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**

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**

Analysis of the interrelationships among physical, cultural, economic, and political patterns of the United States and Canada.

**GEOG 4301 - Urban Geography**

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**

Analysis of the physical, cultural, economic, and political patterns of Latin America and its relationship to other world regions.

**GEOG 4303 - Geography of Texas**

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**

A wide variety of maps including cognitive, thematic, topographic, weather and computer-generated (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 4311 - Historical Geography**

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**

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**

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**

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**

An analysis of the world distribution of fundamental occupations and commodities.

### **GEOG 4317 - Introduction to Globalization**

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**

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**

A course designed specifically for advanced GIS candidates who will identify, interpret, analyze, and evaluate a geographical problem.

Prerequisite: GEOG 4321 Fundamentals of Geographic Information Systems

### **GEOG 4323 - Advanced Geographic Information Systems**

Analytical aspects of spatial data, analysis, and modeling. Theoretical and applied aspects are examined through a series of practical exercises and assignments.

Prerequisite: GEOG 4321 Fundamentals of Geographic Information Systems

### **GEOG 4389 - Independent Study in Geography**

Permission of instructor required.

### **GEOG 4391 - Selected Topics in Geography**

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**

Hands-on identification of common rocks and minerals; geological processes associated with different environments.

Corequisite: GEOL 1303

### **GEOL 1104 - Laboratory for Historical Geology**

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.

Corequisite: GEOL 1304

**GEOL 1303 - Physical Geology**

An introduction to physical geology. A study of minerals, rocks, earth's structures and the geological processes that modify the earth's surface.

Corequisite: GEOL 1103

**GEOL 1304 - Historical Geology**

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.

Corequisite: GEOL 1104

**GEOL 2107 - Laboratory for Geological Field Methods**

Mapping techniques using Global Positioning Satellite (GPS) equipment, GIS software, traditional surveying methods, geologic map production and aerial photography interpretation.

Corequisite: GEOL 3240

**GEOL 2309 - Mineralogy and Petrology I**

An introduction to minerals and rocks; with an emphasis on their physical properties, including composition, classification, identification, occurrences and uses.

Prerequisite: GEOL 1303

**GEOL 3117 - Laboratory for Mineralogy and Petrology**

Hand specimen and optical characterization and interpretation of minerals and rocks.

**GEOL 3240 - Geological Field Methods**

Collection of field data, interpretation and construction of geologic and topographic maps and examination of petrologic systems.

Corequisite: GEOL 2107

**GEOL 3305 - Fundamentals of Earth Science**

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**

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 3333 - Environmental Geology**

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**

Laboratory exercises which investigate the principles of geology, oceanography, meteorology and astronomy.

Prerequisite: GEOL 3305, GEOL 4222, GEOL 4324

**GEOL 4145 - Structural Geology**

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**

Prerequisite: Approval of instructor, chair and associate dean

**GEOL 4191 - Selected Topics in Geology**

Identified by specific title each time course is offered.

### **GEOL 4222 - Laboratory for Geomorphology**

Laboratory exercises focusing on the identification and evolution of landforms along with concepts of geologic and topographic mapping.

Corequisite: GEOL 4324.

### **GEOL 4291 - Selected Topics in Geology**

Identified by specific title each time course is offered.

### **GEOL 4311 - Geology of Texas**

Geological evolution of Texas including physiographic provinces, landforms and subsurface structure. Field trips required.

### **GEOL 4317 - Advanced Mineralogy and Petrology**

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.

Prerequisite: CHEM 4335.

### **GEOL 4323 - Soils in the Environment**

Study of the environmental aspects of soils including expansive soils, clay minerals, soil contamination and subsurface pathways for pollutants. Laboratory and fieldwork included.

Prerequisite: Chemistry.

### **GEOL 4324 - Geomorphology**

Origin and evolution of landforms; geomorphic cycles, physiographic provinces, application of maps, aerial photographs and quantitative methods to geomorphology. Laboratory exercises included.

Prerequisite: GEOL 3304 or equivalent.

Corequisite: GEOL 4222

### **GEOL 4325 - Sedimentation and Stratigraphy**

Origins, depositional environments and internal structures of sedimentary rocks. Principles of stratigraphy and bio-stratigraphy, evolution of modern stratigraphic nomenclature. Fields trips required.

Prerequisite: GEOL 3304 or equivalent.

### **GEOL 4326 - Oceanography**

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.

Prerequisite: GEOL 3305 or equivalent.

### **GEOL 4327 - Natural Disasters**

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**

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**

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.

Prerequisite: GEOL 3307 or equivalent.

**GEOL 4351 - Hydrogeology**

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.

Prerequisite: GEOL 4324

**GEOL 4356 - Soil and Groundwater Remediation**

Chemical, biological, geological principles and applications of various remediation techniques used to clean up contaminated soils and groundwater.

Prerequisite: CHEM 3333.

Cross-Listed as: CHEM 4356

**GEOL 4375 - Petroleum Geology**

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.

Prerequisite: GEOL 4325

**GEOL 4389 - Independent Study in Geology**

Prerequisite: Approval of instructor, chair and associate dean

**GEOL 4391 - Selected Topics in Geology**

Identified by specific title each time course is offered.

## **HADM - HEALTHCARE ADMINISTRATION**

**HADM 3311 - Foundations of Healthcare Administration Leadership**

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**

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**

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**

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.

Prerequisite: HADM 3311 or equivalent.



### **HADM 4312 - Healthcare Planning and Marketing**

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.

Prerequisite: HADM 3311 and MKTG 3301, or equivalents.

### **HADM 4313 - Health Policy**

Analysis of health policymaking, health policy and contemporary issues in health policy with emphasis on the U.S.

### **HADM 4316 - Medical Reimbursement**

Acquaints the student with medical terminology, procedure coding, diagnosis coding, medical management and documentation.

Prerequisite: HADM 3311 or equivalent.

### **HADM 4317 - Healthcare Ethics, Values, and Social Responsibilities**

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**

Acquaints the student with managed care terminology, contracting for providers and payors, utilization review, case management, direct contracting, benefits structuring and organization structure.

Prerequisite: HADM 3311 or equivalent.

### **HADM 4326 - Hospital Operations**

Prerequisite: HADM 3311. 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.

### **HADM 4332 - Legal Dimensions of Healthcare Administration**

Legal aspects of the doctor-patient-nurse-other health professional relationships; individual, corporate and institutional liability and responsibility.

Prerequisite: HADM 3351 or equivalent.

### **HADM 4341 - HR in Healthcare Administration**

Prerequisites: HADM 3311. Concepts and methods needed to plan, forecast, recruit, train, develop, maintain and evaluate health manpower.

### **HADM 4342 - Introduction to Long Term Care Administration**

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**

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**

Prerequisites: FINC 3331 or HADM 3322. Analysis of the financial framework within which health care organizations and facilities operate, sources and flow of funds, cost information systems and capital budgeting.

Prerequisite: FINC 3331 and HADM 3311, or equivalents.

**HADM 4379 - Internship in Healthcare Administration**

Supervised field experience with an approved public or private health facility or physician clinic.

Prerequisite: HADM 4316 and approval of program director.

**HADM 4389 - Independent Studies in Healthcare Administration**

Independent directed study in Healthcare Administration.

Prerequisite: Approval of instructor, Faculty Chair and Associate Dean required.

**HADM 4391 - Selected Topics in Healthcare Administration**

Identified by specific title each time course is offered.

## HIST - HISTORY

**HIST 1301 - United States History I**

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**

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.

**HIST 2301 - Texas History**

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**

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**

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**

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**

A study of classical Greece with particular attention to cultural, social, and political developments.

**HIST 3305 - Ancient Rome**

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**

The birth and first flowering of a truly European civilization, urban society, and an agricultural economy.

**HIST 3309 - Renaissance and Reformation**

Economic, political, intellectual, and religious developments in Europe from 1300 to 1600.

**HIST 3311 - Revolutionary Europe**

The Scientific Revolution and Enlightenment tradition, the French and Industrial Revolutions, the birth of ideologies, and state building.

**HIST 3313 - Modern Europe**

An examination of the major developments within European culture, politics, society, and thought since 1815.

**HIST 3315 - Modern Britain**

The study of Britain since the Industrial Revolution: the Empire, Victorian, and 20th-century society.

**HIST 3316 - Historical Studies**

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**

Survey of the history of Latin America from c. 1500 to the present. Introduces Latin American history.

**HIST 3319 - Colonial Latin America**

Examination of the history of Latin America during period of indigenous self-rule and colonial period.

**HIST 3321 - Modern Latin America**

Survey of the development of Latin America from 19th century to the present.

**HIST 3323 - History of Mexico**

Survey of the history of Mexico from Spanish conquest to the present.

**HIST 3325 - Colonial America**

Genesis of American values by tracing the development of colonial institutions such as the family, church, school, and slavery.

**HIST 3327 - The New American Nation**

Emergence and development of a distinctly American society, politics, and national identity.

**HIST 3329 - Antebellum America**

A study of the United States from 1820 to 1860 with special emphasis on social and political developments.

**HIST 3330 - Civil War and Reconstruction**

The experience of Americans from the 1840s to the 1870s; their attempts to reconcile sectional and national identities.

**HIST 3333 - Growth of Industrial America**

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. 1919-1945**

Focus on modernization of life in the U.S. and survey of crises of Great Depression and World War II.

**HIST 3337 - U.S. Since 1945**

Focus on U.S. Cold War political history and domestic upheavals of the 1960s and 1970s.

**HIST 3340 - Women in European History**

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**

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 as: WMST 3341 Women in American History.

**HIST 3345 - Reel America I**

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**

Analysis of films and historical material since 1945. Focus on cultural and social history. May include Women's Studies content.

**HIST 4189 - Independent Study in History**

Permission of instructor required. May be taken for 1 hour of credit. For 2 or 3 hours of Independent Study credit, students should enroll in HIST 4289 Independent Study in History or HIST 4389 Independent Study in History.

**HIST 4289 - Independent Study in History**

Permission of instructor required. May be taken for 2 hours of credit. For 1 or 3 hours of Independent Study credit, students should enroll in HIST 4189 Independent Study in History or HIST 4389 Independent Study in History.

**HIST 4301 - Studies in European History**

Surveys important topics in European history. Topics vary; may be repeated for credit with permission of instructor.

**HIST 4303 - Reel Europe**

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**

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**

Examination of the Holocaust from historical, psychological, and sociological perspectives.

**HIST 4308 - The Mexico Borderlands**

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**

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**

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**

History of indigenous peoples of the Americas from the 15th through the 20th centuries, especially of the contacts between these people and European culture and societies and of their relations with colonial and national societies. Areas and cultures will vary; may be repeated for credit with permission of instructor.

**HIST 4313 - Studies in U.S. History**

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**

Surveys important topics in African American history. Topics vary; may be repeated for credit with permission of instructor.

**HIST 4317 - The U.S. West**

History of Trans-Mississippi West from early 19th-century exploration through late 20th-century urbanization.

**HIST 4319 - U.S. Labor History**

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**

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**

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.

**HIST 4325 - Studies in Middle Eastern History**

Surveys important topics in Middle Eastern history. Topics vary; may be repeated for credit with permission of instructor.

**HIST 4329 - History of Feminism**

A 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. Topics vary; may be repeated for credit with permission of instructor. Women's Studies Course.

Cross-Listed as: WMST 4329 History of Feminism.

**HIST 4389 - Independent Study in History**

Permission of instructor required. May be taken for 3 hours of credit. For 1 or 2 hours of Independent Study credit, students should enroll in HIST 4189 Independent Study in History or HIST 4289 Independent Study in History.

**HIST 4391 - Selected Topics in History**

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**

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**

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**

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**

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**

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**

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**

This course will provide an overview of the health and physical education information required by an Early Childhood - 6th grade Generalist teacher. The course will cover specific material from the Texas State Board for Educator Certification and prepare students for certification exams.

**HLTH 3303 - Nutrition and Weight Management**

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**

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**

An 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 3309 - Evidence-Based Practice**

An 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**

The purposes, methods, and objectives of health promotion programs in business and industry.

**HLTH 3316 - Applied Kinesiology**

The study of functional anatomy with relevance to the kinesiology of exercise, exercise movements, and sports participation.

**HLTH 3317 - Motor Development and Learning**

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**

This course provides a broad overview of community health and emphasis on governmental organizations that influence public health, epidemiology, community organization and health planning.

**HLTH 3320 - Health Inequalities**

This course 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**

Study of the physiological bases of exercise with emphasis on the adaptation of the systems of the body to stress.

**HLTH 4302 - Biomechanics**

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**

Approaches to injury prevention by conditioning and utilization of proper equipment. Diagnosis and rehabilitation of common sports injuries. Laboratory exercises.

### **HLTH 4307 - Peak Performance**

How to improve performance by enhancing strength, flexibility, speed, power, agility, and coordination.

### **HLTH 4308 - Resistive Exercise: Theory and Practice**

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**

An introduction to human subjects research, including data collection, reduction, and analysis. Students will participate in abstract and manuscript preparation.

Prerequisite: HLTH 3379 Undergraduate Practicum, Instructor permission required.

### **HLTH 4311 - Methods in Physical Education I**

Introduction to instructional concepts, methods, and technologies in teaching and administering secondary-level physical education programs.

### **HLTH 4312 - Methods in Physical Education II**

Advanced instructional concepts, methods, and technologies in teaching and administering secondary-level physical education programs.

### **HLTH 4370 - Undergraduate Practicum**

The application of test procedures utilized for general fitness assessment testing. Permission of instructor required.

Prerequisite: HLTH 4301 Physiology of Exercise

### **HLTH 4378 - Capstone in Fitness and Human Performance**

Capstone will review material from the Fitness and Human Performance core courses, preparing students for required comprehensive final exam. Capstone additionally prepares students for NSCA-CSCS certification examination. Permission of instructor required.

Prerequisite: Completion of or concurrent enrollment in HLTH 3379 Undergraduate Practicum, HLTH 4301 Physiology of Exercise, HLTH 4302 Biomechanics, HLTH 4303 Nutrition and Weight Management, HLTH 4304 Principles of Physical Fitness, HLTH 4305 Seminar in Sports Medicine, HLTH 4307 Peak Performance and HLTH 4308 Resistive Exercise: Theory and Practice.

### **HLTH 4379 - Internship**

Work-related learning experience in the application of exercise health promotion programs to teaching, clinical, or research activities. Permission of instructor required.

Prerequisite: Completion of or concurrent enrollment in HLTH 3379 Undergraduate Practicum, HLTH 4301 Physiology of Exercise, HLTH 4302 Biomechanics, HLTH 4303 Nutrition and Weight Management, HLTH 4304 Principles of Physical Fitness, HLTH 4305 Seminar in Sports Medicine and HLTH 4308 Resistive Exercise: Theory and Practice.

### **HLTH 4389 - Independent Study in Health**

Prerequisite: Approval of independent study director. Individual projects and activities in development of skills related to health.

### **HLTH 4391 - Selected Topics in Health**

Identified by specific title each time course is offered.

# HUMN - HUMANITIES

## **HUMN 1301 - Humanities**

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**

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.

Cross-Listed as: ARTS 3350 Art 1900-1950

## **HUMN 3351 - Art 1950-Present**

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 as: ARTS 3351 Art 1950-Present

## **HUMN 3355 - Latin American Art of the Twentieth Century**

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 as: ARTS 3355 Latin American Art of the Twentieth Century

## **HUMN 3356 - Mexican Art, 1500-Present**

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.

Cross-Listed as: ARTS 3356 Mexican Art, 1500-Present

## **HUMN 3357 - History and Theory of Photography**

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 as: ARTS 3357 History and Theory of Photography

## **HUMN 3374 - Critical Inquiry**

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**

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**

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 - Introduction to Women's Studies**

General information on the wide range of issues related to the status of women. Women's Studies Course.



Cross-Listed as: PSYC 4308 Introduction to Women's Studies, SOCI 4308 Introduction to Women's Studies, and WMST 4308 Introduction to Women's Studies.

### **HUMN 4312 - Art of Ancient Iraq and the Near East**

The art, history, and culture of Ancient Iraq and the Near East. Topics include prehistoric art, state formation, ideology, and empire.

Cross-Listed as: ARTS 4312 Art of Ancient Iraq and the Near East

### **HUMN 4315 - Art of the Ancient Greek World**

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.

Cross-Listed as: ARTS 4315 Art of the Ancient Greek World

### **HUMN 4322 - Roman Art**

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 as: ARTS 4322 Roman Art

### **HUMN 4326 - Studies in Film**

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**

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 as: ARTS 4364 Museum Studies

### **HUMN 4366 - Propaganda and Persuasive Images**

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 as: ARTS 4366 Propaganda and Persuasive Images

### **HUMN 4372 - Seminar in Women's Studies**

An advanced course in Women's Studies, designed to acquaint the student with contemporary issues in feminist scholarship across the disciplines. Women's Studies Course.

Prerequisite: Any previous Women's Studies course.

Cross-Listed as: HUMN 5732 Seminar in Women's Studies, PSYC 4372 Seminar in Women's Studies, PSYC 5732 Seminar in Feminist Theory, and WMST 4372 Seminar in Women's Studies.

### **HUMN 4375 - Senior Seminar**

Required capstone for Humanities majors. Encourages students to synthesize their liberal arts experiences. Seminar focuses interdisciplinary studies around a single theme or topic. Topics vary; may be repeated for credit.

Prerequisite: Completion of 2 upper-level HUMN classes (including HUMN, PHIL, ARTS [Art History]), one of which should be HUMN 3375 Ideas in Transition.

### **HUMN 4379 - Internship**

A supervised onsite internship in an approved setting. Permission of instructor required.

### **HUMN 4389 - Independent Study in Humanities**

Permission of instructor required.

**HUMN 4391 - Selected Topics in Humanities**

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**

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**

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**

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**

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**

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**

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.)

Prerequisite: 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**

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 4314 - Personal Protective Equipment**

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**

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 & Accident Investigation**

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**

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**

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**

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**

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**

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**

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.

Prerequisite: 15 hours of upper-level credit.

**INDH 4379 - Internship in Industrial Hygiene and Safety**

Supervised work experience in an approved industrial firm or government agency. Written and oral reports required.

Prerequisite: 15 hours of upper-level credit; Approval of faculty adviser and associate dean.

**INDH 4389 - Independent Study in Industrial Hygiene and Safety**

Prerequisite: Approval of instructor, chair and associate dean.

**INDH 4391 - Selected Topics in Industrial Hygiene and Safety**

Identified by specific title each time course is offered.

**INST - INSTRUCTIONAL TECHNOLOGY****INST 3313 - Survey of Instructional Technologies**

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.

Prerequisite: Basic computer literacy.

**INST 4355 - eLearning**

Apply internet knowledge and skills to design and develop learning environments on the Internet. Apply current research-based strategies for effective Web-enhanced learning and the assessment of that learning. Demonstrate safe, legal and healthy use of the Internet.

Prerequisite: Basic computer literacy.

**INST 4357 - Multimedia for Instruction**

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**

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.

Prerequisite: Basic computer literacy.

**INST 4389 - Independent Study in Instructional Technology**

Prerequisite: Approval of instructor and associate dean.

**INST 4391 - Selected Topics in Instructional Technology**

Identified by title each time course is offered.

## **ISAM - INFORMATION SYSTEMS ADMINISTRATION AND MANAGEMENT**

**ISAM 1305 - Business Computer Applications**

Computer terminology, hardware, software, operating systems and information systems relating to the business environment. 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**

Fundamentals of information systems to assist management in the operation and control of complex organizations.

**ISAM 3304 - Introduction to Business Applications Programming**

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**

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.

Prerequisite: ISAM 3304 or equivalent.

**ISAM 3331 - Introduction to Business Database Application Development**

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.

Prerequisite: Prerequisite/co-requisite: ISAM 3303 or equivalent.

**ISAM 3333 - Applications Development with C#**

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. Prerequisite: ISAM 3304 or equivalent

Prerequisite: ISAM 3304 or equivalent.

**ISAM 4331 - Introduction to Business Internet Applications Development**

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.

Prerequisite: ISAM 3304 or equivalent.

**ISAM 4332 - Advanced Business Internet Applications Development**

An advanced-level course on the design and development of Internet applications using modern Web technology standards, languages, and tools. Topics include client-side 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.

Prerequisite: ISAM 3331, 3332, 4331 or equivalents.

**ISAM 4360 - Advanced Business Spreadsheet Applications Development**

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.

Prerequisite: ISAM 3303 or equivalent.

**ISAM 4362 - Advanced Business Database Application Development**

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.

Prerequisite: ISAM 3331 or equivalent.

**ISAM 4365 - Analysis and Design of Information Systems**

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.

Prerequisite: ISAM 3331 or equivalent.

**ISAM 4366 - Introduction to Computer Networks Management**

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.

Prerequisite: ISAM 3303 or equivalent.

**ISAM 4367 - Advanced Computer Network Protocols**

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.

Prerequisite: ISAM 4366 or equivalent.

**ISAM 4379 - Internship in Management Information Systems**

Supervised work experience related to management information systems with an approved business, industrial firm, or governmental agency; written and oral reports as required.

Prerequisite: 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**

Independent directed study in Management Information Systems. Prerequisite: Approval of instructor, faculty chair and associate dean required.

Prerequisite: Approval of instructor, Faculty Chair and Associate Dean required.

**ISAM 4391 - Selected Topics in Management Information Systems**

Identified by specific title each time course is offered.

## **ITEC - INFORMATION TECHNOLOGY**

**ITEC 3312 - Introduction to Scripting**

This course will introduce practical script programming for IT tasks, data manipulation and decision support. Students will be introduced to the structure of scripting languages with emphasis on Python. Laboratory instruction.

Prerequisite: CSCI 3303.

**ITEC 3335 - Database Development**

Introduces database theory, design and implementation. Topics covered will 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 management systems are studied with database design issues in the context of solving business problems. Laboratory instruction.

Corequisite: ITEC 3312

**ITEC 3351 - Web Fundamentals**

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**

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 concepts, media and operations are introduced. This course also covers LAN topologies and basic configuration of router and switches. Laboratory instruction.

**ITEC 3381 - Forensics Fundamentals**

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 4189 - Independent Study in Information Technology**

Prerequisite: Approval of instructor, chair and associate dean.

**ITEC 4195 - Cooperative Education Work Term**

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).

Prerequisite: Approved Candidate Plan of Study, completed cooperative education file and approval of associate dean and Director of Cooperative Education.

### **ITEC 4313 - Emerging Information Technology**

An introduction to the key trends, assessment and usage of emerging information technology in terms of technical architecture, infrastructure and application. Laboratory instruction.

### **ITEC 4335 - Database Administration**

This course focuses on providing in-depth coverage of DBA tasks including creating database environments, data modeling, normalization, design, performance, data integrity, compliance, governance, security, backup/recovery, disaster planning, data and storage management, data movement/distribution, data warehousing, connectivity, metadata concepts, tools and other related concepts fundamental to administration of databases. Extensive hands-on experience in team projects for developing, optimizing and maintaining databases and other DBA task will be covered as well. Laboratory instruction.

Prerequisite: ITEC 3335.

### **ITEC 4342 - Information Technology Project Management**

The course will discuss the various life-cycles and corresponding phases. Project Management issues including estimation, risk-assessment, configuration, monitoring and control will be discussed. Other topics including quality, integration and reporting will be addressed.

Prerequisite: CSCI 3303

### **ITEC 4351 - Web Design**

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 design as well as the basics of creating sites for mobile devices and multiple screens. Students will also learn fundamental webmaster topics such as web analytic, search engine optimization and web security issues and tools. The technologies used will include HTML 5, CSS3, Java Script and jQuery. Laboratory instruction.

Prerequisite: ITEC 3351

### **ITEC 4352 - Backend Web Development**

The course will focus on building dynamic database-driven web sites. Students will learn how to structure content for web sites in a database and how to retrieve that data and manipulate and place it in pages. The technologies used are Python, Django, MySQL Workbench, MySQL database platforms and PHP. Laboratory instruction.

Prerequisite: ITEC 4351

### **ITEC 4365 - Network Administration**

This course will examine fundamental Linux and TCP/IP networking concepts, learn to use remote administration services and tools, configure routers, DHCP and other network protocols and learn basic network troubleshooting tools and techniques.

Prerequisite: ITEC 3365

### **ITEC 4366 - IT Security & Disaster Recovery**

This course covers general concepts of information systems security. Topics include: Physical threats, Risk analysis, Security policies and mechanisms, Database management systems security, Network security concepts; Networks threats such as spoofing, eavesdropping, denial of service attacks and Network security techniques such as Firewalls, Virtual private network and intrusion detection. Other topics include Policy formation, Issues of laws and regulations, Authentication technologies, contingency and business resumption planning and various prevention measures and techniques for responding to security breaches.

### **ITEC 4379 - Internship in Information Technology**

Supervised work experience each week in an approved Information Technology field.

Prerequisite: Approval of faculty chair and associate dean required.

**ITEC 4381 - Computer Forensics**

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.

Prerequisite: ITEC 3381.

**ITEC 4382 - Registry & Internet Forensics**

Understanding the registry structure, creating preliminary reports, searching for evidence in the NTuser.dat, SAM, SYSTEM, SOFTWARE and SECURITY artifacts. Laboratory instruction.

Prerequisite: ITEC 3381 or ITEC 4381

**ITEC 4388 - Senior Project in Information Technology**

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**

Prerequisite: Approval of instructor, chair and associate dean.

**LEGL - LEGAL STUDIES****LEGL 2301 - Legal Environment of Business**

Major content areas include general principles of law and the legal system, contracts, sales, commercial paper, bank-customer relations, agency and property.

**LEGL 3157 - Internet Legal Research**

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**

Prerequisite: LEGL 3351: Legal Research. Principles of legal drafting and case analysis; preparation of legal documents and rules of appellate process.

Prerequisite: LEGL 3351 is recommended.

**LEGL 3313 - Introduction to Law and the American Legal System**

Overview of the American legal system and the structure of law and legal institutions in the United States.

**LEGL 3321 - Logic**

An investigation of traditional approaches to correct and incorrect reasoning.

**LEGL 3342 - American System of Trial By Jury**

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**

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**

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**

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**

(Variable credit, 1 or 3 semester hours.) Independent directed study in Legal Studies.

Prerequisite: Approval of instructor, Faculty Chair and Associate Dean required.

**LEGL 4324 - The U.S. Constitution and the Bill of Rights**

Study of the evolution of the U.S. Constitution from the passage of the Declaration of Independence to the present.

**LEGL 4352 - Family Law and Procedure**

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**

Analysis of the various methods of resolving disputes between citizens outside the traditional adversarial system.

**LEGL 4354 - Property Transactions**

Study of the fundamental principles and procedures of law related to the acquisition, control and disposition of property.

**LEGL 4355 - Criminal Law and Procedure**

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**

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**

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**

An analysis of the principle consumer protection statutes in Texas and related federal laws. Special emphasis will be placed on The Texas Deceptive Trade Practices Act.

**LEGL 4362 - Elder Law**

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**

Fundamentals of the operation of document assembly programs using Pro-Doc.

**LEGL 4365 - Mock Trial**

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.

Prerequisite: LEGL 3342 or equivalent.

**LEGL 4368 - Seminar on the U.S. Constitution and Bill of Rights**

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 4377 - State Bar - CLE**

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**

Supervised field experience with an approved agency or office. Written and oral reports required.

Prerequisite: Approval of faculty adviser and program director.

**LEGL 4389 - Independent Studies in Legal Studies**

(Variable credit, 1 or 3 semester hours.) Independent directed study in Legal Studies.

Prerequisite: Approval of instructor, Faculty Chair and Associate Dean required.

**LEGL 4391 - Selected Topics in Legal Studies**

Identified by specific title each time course is offered.

**LEGL 43XX - Legal Concepts for Human Resource Professionals**

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 43XX - Professional Development for Legal Studies Students**

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 students with a legal education; a final project will be assigned.

Prerequisite: Course is taken in the last or next to last semester in the legal studies program

Prerequisite: Prerequisite: Course is taken in the last or next to last semester in the legal studies program

## **LITR - LITERATURE**

**LITR 2321 - British Literature**

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.

Prerequisite: WRIT 1301 Composition I

**LITR 2326 - American Literature**

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.

Prerequisite: WRIT 1301 Composition I

**LITR 2341 - Literature and Experience**

The study of one of more literary genres including poetry, fiction, drama, and film.

Prerequisite: WRIT 1301 Composition I

**LITR 2371 - Introduction to Creative Writing**

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.

Prerequisite: WRIT 1301 Composition I and WRIT 1302 Composition II

**LITR 3301 - Literary Studies: Genres and Critical Perspectives**

Introduction to the close study of literary and dramatic texts and issues affecting interpretation.

### **LITR 3302 - Principles of Composition**

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**

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**

Shakespeare's major plays and their production in the theatre of the English Renaissance.

### **LITR 3371 - Creative Writing**

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.

Prerequisite: WRIT 1301 Composition I and WRIT 1302 Composition II.

### **LITR 4189 - Independent Study in Literature**

Permission of instructor required. May be taken for 1 hour of credit. For 3 hours of Independent Study credit, students should enroll in LITR 4389 Independent Study in Literature.

### **LITR 4301 - Literary Theory**

Theories about the nature of verbal art and the relationship between literature and reality.

Prerequisite: LITR 3301 Literary Studies: Genres and Critical Perspectives.

### **LITR 4304 - Workshop in Poetics**

The language, formal strategy, and mechanical techniques of poetry. A practical sense of how poems work. Designed for teachers, readers, and writers of poetry.

Prerequisite: LITR 3301 Literary Studies: Genres and Critical Perspectives.

### **LITR 4312 - Chaucer**

The art of England's greatest narrative poet: *Canterbury Tales*, *Troilus and Criseyde*.

### **LITR 4316 - 16th- and 17th-Century British Literature**

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**

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**

Major Romantic poets and novelists: Coleridge, Wordsworth, Byron, Scott, Mary Shelley, Brontë, and others. Topics may include revolution and war, gender issues, rise of the individual colonialism, exoticism, science, or art.

### **LITR 4321 - Jane Austen**

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**

Major Victorian essayists, poets, and novelists, including Tennyson, the Brontës, 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**

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**

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**

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**

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**

Focus on development of form, style, and theme in American fiction; major and lesser-known novelists over two centuries.

**LITR 4335 - American Modernism**

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**

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**

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**

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**

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**

Major works of such novelists as Conrad, Joyce, Faulkner, Mann, and Garcia-Marquez.

**LITR 4345 - Contemporary Novel**

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, Djebbar, Lahiri, Miéville, Morrison, Murakami, Ondaatje, Pamuk, Powers, and Winterson.

**LITR 4346 - Medieval Literature**

Romance, lyric, fabliau, epic, play, and story. Selections from such medieval masters as Dante; the *Gawain*, *Tristan* and *Beowulf* poets; Boccaccio; and Chrétien de Troyes. Texts will be read in translation.

**LITR 4350 - Masterpieces of 19th-Century European Literature**

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**

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**

Myth and epic, the personal poem, Expressionism, neo-Romanticism; includes such poets as Yeats, Auden, Stevens, and Frost.

**LITR 4358 - Contemporary Poetry**

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**

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**

Growing up: variance and continuity in depictions of adolescence by American and other writers.

**LITR 4364 - Women in Literature**

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**

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**

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**

The dimensions of tragic experience as expressed in Western literature.

**LITR 4371 - Comedy**

The comic view of the human predicament as seen in writers such as Aristophanes, Moliere, Wilde, and others.

**LITR 4389 - Independent Study in Literature**

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 Independent Study in Literature.

**LITR 4391 - Selected Topics in Literature**

Identified by specific title each time course is offered. Topics vary; may be repeated for credit with permission of instructor.

## **LLAS - LATINA/O AND LATIN AMERICAN STUDIES**

**LLAS 2301 - Topics in Latina/o and Latin American Studies, Humanities**

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**

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**

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**

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**

Theories and approaches for teaching reading in intermediate and high school. Field experiences required.

**LLLS 4313 - Corrective and Remedial Reading**

Study of neurophysiology and psychology in treating disabled readers, including dyslexia and related disorders. Evaluation of strategies of correction and remediation. Field experiences required.

Prerequisite: LLLS 4311 or LLLS 4352 and concurrent enrollment in LLLS 4332

**LLLS 4332 - Diagnostic and Prescriptive Reading**

Diagnostic evaluation of readers; remedial approaches to vocabulary, comprehension, word identification, phonemic awareness and fluency. Field experiences required.

Prerequisite: LLLS 4311 or LLLS 4352 and concurrent enrollment in LLLS 4313

**LLLS 4344 - Reading & Writing for EC-6**

Application of theories and strategies for teaching the language arts for EC-6. Field experiences required.

Prerequisite: LLLS 4311 or equivalent.

**LLLS 4345 - Survey of Children's Literature**

Survey of literature for children focusing on titles appropriate for grades EC-8 students.

**LLLS 4346 - Teaching Language Arts in the 4-8 Classroom**

Application of theories and strategies for teaching the language arts for students in grades 4-8. Field experiences required.

**LLLS 4347 - Multicultural Literature**

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**

Survey of literature for very young children focusing on titles appropriate for children from birth to age five.

**LLLS 4351 - Reading in Content Subjects**

Survey of current reading and writing development in content subjects.

**LLLS 4352 - Young Adult Literature and Reading**

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**

Implementation of instructional plans and teaching strategies. Review of current research, theories and exemplary practices of teaching secondary English/Language Arts. Field experiences required.

Prerequisite: Admission to Teacher Education.

**LLLS 4379 - Practicum in Clinical Reading**

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.

Prerequisite: 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**

Prerequisite: Approval of instructor and associate dean.

**LLLS 4391 - Selected Topics in Reading**

Identified by specific title each time course is offered.

## MATH - MATHEMATICS

**MATH 1314 - College Algebra**

Study of quadratics; polynomial, rational, logarithmic and exponential functions; systems of equations; progressions; sequences and series and matrices and determinants.

Prerequisite: Meet TSI college-readiness standard for Mathematics; or equivalent.

**MATH 1324 - Finite Math**

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.

Prerequisite: Meet TSI college-readiness standard for Mathematics; or equivalent.

**MATH 1325 - Business Calculus**

Limits and continuity, derivatives, graphing and optimization, exponential and logarithmic functions, anti-derivatives, integration, applications to management, economics and business.

Prerequisite: MATH 1324 or MATH 1314 with a C- or better or meet requirement in UHCL Mathematics Department Placement and Testing policy.

**MATH 1332 - Mathematics for Liberal Arts**

Topics include introductory treatments of sets, logic, number systems, number theory, relations, functions, probability and statistics. Appropriate applications are included.

Prerequisite: Appropriate score on placement exam.

**MATH 1342 - Elementary Statistical Methods**

Collection, analysis, presentation and interpretation of data; probability, sampling, correlation and regression, analysis of variance and the use of statistical software.

Prerequisite: Meet TSI college-readiness standard for Mathematics; or equivalent.

**MATH 1350 - Fundamentals of Math I**

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.

Prerequisite: MATH 1314 with a C- or better or meet requirement in UHCL Mathematics Department Placement and Testing policy.

**MATH 1351 - Fundamentals of Math II**

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.

Prerequisite: MATH 1350

**MATH 2305 - Discrete Mathematics**

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.

Prerequisite: MATH 2413

**MATH 2315 - Calculus III**

Vectors and vector valued functions, functions of multiple variables, partial derivatives, multiple integrals, volume and surface area and vector calculus.

Prerequisite: MATH 2414

**MATH 2318 - Linear Algebra**

Systems of linear equations; vector spaces, linear transformations, determinants, matrices, eigenvalues and eigenvectors; applications to coding and difference equations.

Prerequisite: MATH 2412 or MATH 2413

**MATH 2320 - Differential Equations**

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.

Prerequisite: MATH 2414

**MATH 2412 - Pre-Calculus Mathematics**

In-depth combined study of algebra, trigonometry and other topics for calculus readiness.

Prerequisite: MATH 1314 with a C- or better or meet requirement in UHCL Mathematics Department Placement and Testing policy.

**MATH 2413 - Calculus I**

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.

Prerequisite: MATH 2412 with a C- or better or meet requirement in UHCL Mathematics Department Placement and Testing policy.

**MATH 2414 - Calculus II**

Differentiation and integration of transcendental functions; parametric equations and polar coordinates; techniques of integration; sequences and series; improper integrals.

Prerequisite: 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**

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.

Prerequisite: MATH 2413

**MATH 3301 - History of Mathematical Sciences**

Temporal relationships of concepts by means of biographic studies; development of mathematical theory and applications from ancient to contemporary times.

Prerequisite: MATH 1314 or MATH 1324 or MATH 1332



### **MATH 3304 - Algebra Through Technology**

Using technology topics in elementary functions, simultaneous equations, polynomials and elementary topics in number theory. This course for Teaching Certification students only.

Prerequisite: MATH 1314

### **MATH 3305 - Euclidian and Non-Euclidian Geometry**

Formal set theory, logical structure and measurement.

Prerequisite: MATH 1314

### **MATH 3306 - Problem Solving**

Problem solving through experiences and reasoning; ideas from areas such as pattern recognition, simulation and logical deduction.

Prerequisite: MATH 1351, MATH 3304, or equivalent or instructor permission

### **MATH 3312 - Number Theory**

Properties of divisibility. Prime numbers, congruence arithmetic, Fermat's and Euler's Theorem, multiplicative functions, cryptography and applications of these ideas, an overview of techniques of mathematical proof.

Prerequisite: MATH 3300 and either MATH 2318 or MATH 3306.

### **MATH 3331 - Advanced Calculus**

Set theory. Real number system. Sequences and series. Differentiation. The Riemann integral.

Prerequisite: MATH 2315 or equivalent.

### **MATH 4189 - Independent Study in Mathematics**

Prerequisite: Approval of instructor, chair and associate dean.

### **MATH 4313 - Introduction to Topology**

Topological techniques in analysis, metric spaces, continuous transformations, connectivity, separation, compactness; nets and filters, cardinal arithmetic.

Prerequisite: MATH 3331.

### **MATH 4315 - Numerical Analysis and its Applications**

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.

Prerequisite: MATH 2315, MATH 2318, MATH 2320 and C/C++ or equivalent.

### **MATH 4316 - Mathematic Software Applications**

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.

Prerequisite: MATH 2318, MATH 2320, CSCI 1318 or a scientific programming language.

### **MATH 4321 - Predicate Logic**

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**

Study of algebraic structures: maps, operations, permutations and homomorphisms. Groups, rings, integral domains and fields; applications to symmetry; techniques of mathematical proof.

Prerequisite: MATH 2318, MATH 2413, MATH 3312

**MATH 4325 - Theory of Models and Applications**

Simulation and analysis on continuous and discrete mathematical models in science. It also includes the study of nonlinear dynamics, chaos and fractals.

Prerequisite: MATH 2318 and MATH 2320 or equivalent.

**MATH 4341 - Introduction to Analysis**

Real numbers, sequences and series, differentiation and measure theory; Riemann, Stieltjes and Lebesgue integrals.

Prerequisite: MATH 3331 or equivalent.

**MATH 4344 - Introduction to Probability**

Sample space, probability function, combinatorics, discrete and continuous random variables, special probability distributions, moment generating function, multivariate distribution and central limit theorem.

Prerequisite: MATH 2414

**MATH 4345 - Introduction to Statistics**

Sampling distributions, point and interval estimation, hypothesis testing, regression and correlation, nonparametric statistics, analysis of variance.

Prerequisite: MATH/STAT 4344

**MATH 4346 - Probability for Actuarial Exam P1**

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.

Prerequisite: MATH/STAT 4344

**MATH 4348 - Introduction to Financial Math for Exam FM**

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.

Prerequisite: MATH 2413

**MATH 4350 - Financial Economics for Actuarial Exam MFE**

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.

Prerequisite: MATH/STAT 4344

**MATH 4363 - Functions of a Complex Variable**

The theory of limits, differentiation and integration in the complex plane. Gauss' theorem and residue calculations.

Prerequisite: MATH 2315 or equivalent.

**MATH 4389 - Independent Study in Mathematics**

Prerequisite: Approval of instructor, chair and associate dean.

**MATH 4391 - Selected Topics in Mathematics**

Identified by specific title each time course is offered.

## MENG- MECHANICAL ENGINEERING

### **MENG 2301 - Statics**

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.

### **MENG 2302 - Dynamics**

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**

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**

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**

Management policies and processes including planning, organizing and controlling; overview of the functions of organization theory and behavior.

### **MGMT 3313 - Organizational Communication**

A study of theories and practices in organizational communication, dissemination of information in organizational settings, effectiveness, relative costs and feedback potential.

Prerequisite: MGMT 3301 or equivalent.

### **MGMT 3331 - Human Resource Management**

Problems and practices in human resource management; selection, placement, evaluation, promotion and termination.

Prerequisite: MGMT 3301 or equivalent.

### **MGMT 3341 - Human Resource Planning, Staffing and Selection**

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.

Prerequisite: MGMT 3331 or equivalent.

### **MGMT 3351 - Wage and Salary Administration**

Job performance evaluation and development of compensation plans and programs.

Prerequisite: MGMT 3301 or equivalent.

### **MGMT 4189 - Independent Studies in Management**

(Variable credit, 1 or 3 semester hours.) Independent directed study in Management.

Prerequisite: Approval of instructor, Faculty Chair and Associate Dean required.

### **MGMT 4312 - Strategic Management (Capstone)**

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.

Prerequisite: MGMT 3301, MKTG 3301, FINC 3331 and LAST SEMESTER.

**MGMT 4316 - Human Resource Management Information Systems**

Principles and procedures and contemporary programs used in the development of information systems to aid human resource decision making.

**MGMT 4326 - Effective Negotiations**

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**

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**

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**

Surveys theory and research on the structure of business organizations and processes affecting their management.

Prerequisite: MGMT 3301 or equivalent.

**MGMT 4333 - Collective Bargaining in the Public Sector**

Comparisons and contrasts of collective bargaining in the public and private sectors; the impact of unionization on public administration.

Prerequisite: MGMT 3301 or equivalent.

**MGMT 4334 - Leading Teams**

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.

Prerequisite: MGMT 3301 & MGMT 4354.

**MGMT 4336 - Principles of Entrepreneurship**

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.

Prerequisite: MGMT 3301 and MKTG 3301 or equivalents.

**MGMT 4337 - Applied Small and Family Business Management**

This course will provide students with an opportunity to practice entrepreneurial skills and tools while supporting local businesses, nonprofit firms, or the community.

Prerequisite: MGMT 4336.

**MGMT 4341 - Leadership in a Global Business Environment**

The topic of leadership will be explored in the context of the global business environment.

**MGMT 4351 - Industrial Labor Relations**

Collective bargaining processes in American industry; impact of labor management relations on wage and employment levels and on national income.

Prerequisite: MGMT 3301 or equivalent.

**MGMT 4353 - International Business Management**

Managerial considerations in international business operations; government involvement, organizational structure, operating policies and market peculiarities.

Prerequisite: MGMT 3301 or equivalent.

**MGMT 4354 - Organizational Behavior Theory and Application**

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.

Prerequisite: MGMT 3301 or equivalent.

**MGMT 4355 - Seminar in International Management**

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.

**MGMT 4356 - Employee Training and Organizational Development**

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 necessary for a successful training and/or organizational development program.

Prerequisite: MGMT 3331 and MGMT 4354 or equivalent.

**MGMT 4357 - Government Budget Planning and Analysis**

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**

The changing role of business enterprise in society; influences of government regulatory agencies on social consciousness in the business world.

Prerequisite: MGMT 3301 or equivalent.

**MGMT 4379 - Internship in Management**

Three or six hours of supervised work experience each week in an approved business or industrial firm.

Prerequisite: 15 hours of upper-level credit and approval of program director.

**MGMT 4389 - Independent Studied in Management**

(Variable credit, 1 or 3 semester hours.) Independent directed study in Management.

Prerequisite: Approval of instructor, Faculty Chair and Associate Dean required.

**MGMT 4391 - Selected Topics in Management**

Identified by specific title each time course is offered.

**MGMT 43XX - Legal Concepts for Human Resource Professionals**

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

## **MKTG - MARKETING**

**MKTG 3301 - Principles of Marketing**

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**

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.

Prerequisite: MKTG 3301 or equivalent.

**MKTG 3314 - Logistics Strategy**

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.

Prerequisite: MKTG 3301 or equivalent.

**MKTG 3331 - Integrated Marketing Communications**

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.

Prerequisite: MKTG 3301 or equivalent.

**MKTG 3332 - Professional Selling**

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.

Prerequisite: MKTG 3301 or equivalent.

**MKTG 3342 - Brand Management**

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.

Prerequisite: MKTG 3301 or equivalent.

**MKTG 3343 - Consumer Behavior**

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.

Prerequisite: MKTG 3301 or equivalent.

**MKTG 3344 - Internet Marketing**

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.

Prerequisite: MKTG 3301 or equivalent.

**MKTG 3346 - Healthcare Marketing**

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**

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.

Prerequisite: MKTG 3301 or equivalent.

### **MKTG 3348 - Retail Management**

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.

Prerequisite: MKTG 3301 or equivalent.

### **MKTG 3351 - Marketing Research**

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.

Prerequisite: DSCI 3321 and MKTG 3301, or equivalents.

### **MKTG 4189 - Independent Studies in Marketing**

(variable credit, 1 or 3 semester hours.) Independent directed study in Marketing.

Prerequisite: Approval of instructor, Faculty Chair and Associate Dean required.

### **MKTG 4311 - Sales Management**

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.

Prerequisite: MKTG 3332 or equivalent.

### **MKTG 4332 - Services Marketing**

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.

Prerequisite: MKTG 3301 or equivalent or permission of instructor for non-majors.

### **MKTG 4333 - Marketing for Entrepreneurs**

Application of marketing theories and principles to small businesses and new business ventures.

Prerequisite: MKTG 3301 or equivalent.

### **MKTG 4334 - Marketing Strategy**

Integrating marketing concepts such as purchasing, market segmentation and the 4 Ps and applying them to develop market strategies.

Prerequisite: MKTG 3301 or equivalent.

### **MKTG 4335 - Brands and Brand Management**

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.

Prerequisite: Prerequisite: MKTG 3331

### **MKTG 4351 - International Marketing**

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.

Prerequisite: MKTG 3301 or equivalent.

**MKTG 4352 - Seminar in International Marketing**

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**

Three or six hours of supervised work experience each week in an approved marketing unit.

Prerequisite: 15 hours of upper-level credit and approval of program director.

**MKTG 4389 - Independent Studies in Marketing**

(variable credit, 1 or 3 semester hours.) Independent directed study in Marketing.

Prerequisite: Approval of instructor, Faculty Chair and Associate Dean required.

**MKTG 4391 - Selected Topics in Marketing**

Identified by specific title each time course is offered.

## **MSCI - MILITARY SCIENCE**

**MSCI 3310 - Advanced Military Science**

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.

Prerequisite: MSCI 2220 or consent of the chair.

**MSCI 3320 - Advanced Military Science**

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.

Prerequisite: MSCI 2220 or consent of the chair.

**MSCI 3398 - Special Problems**

Prerequisite: junior standing and consent of department chair.

**MSCI 3491 - leadership development and assessment course**

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.

Prerequisite: MSCI 3320 or consent of the chair.

**MSCI 4310 - Advanced Military Science**

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.

Prerequisite: MSCI 3320 or consent of the chair.

**MSCI 4320 - Advanced Military Science**

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.

Prerequisite: MSCI 3320 or consent of the chair.

**MSCI 4398 - Special Problems**

Prerequisite: senior standing and consent of department chair.



## NCBO - NON-COURSE BASED OPTION

### **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.

Prerequisite: By placement

Corequisite: Enrollment in WRIT 1301

### **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.

Prerequisite: By placement

Corequisite: Enrollment in 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.

Prerequisite: By placement

Corequisite: Enrollment in 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.

Prerequisite: By placement

Corequisite: Enrollment in MATH 1314 or MATH 1332

## NURS-NURSING

### **NURS 3311 - History and Theories of Nursing**

This course will explore the historical development of nursing. The focus of this course will be the introduction of nursing theorists and how nursing theories influence nursing practice today.

### **NURS 3313 - Community Health Nursing**

This course will provide an overview of the delivery of nursing care in a variety of community-based settings. The student will examine spiritual, cultural and socioeconomic factors and their impact on the health care of individuals, families, communities and populations. The student will also examine the role of the nurse as patient advocate within an interdisciplinary team for health promotion and disease prevention for at-risk populations.

Corequisite: NURS 3323: Community Health Nursing Project

### **NURS 3314 - Trends and Issues in Nursing Practices**

This course will focus on 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**

This course provides the student 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.

Corequisite: NURS 3313 Community Health Nursing

**NURS 4311 - Role Transition**

This course will focus on 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.

**NURS 4312 - Legal and Ethical Issues**

This course will help students identify current ethical and legal issues facing nursing today. The focus is on basic legal and ethical principles and an understanding of 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.

**NURS 4313 - Nursing Research**

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 4314 - Advanced Leadership and Management**

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.

Corequisite: NURS 4324 Advanced Leadership and Management Practicum

**NURS 4324 - Advanced Leadership and Management Practicum**

Emphasis will be on the student demonstrating 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 within the health care system. Focus is on clinical application of the knowledge and skills of nursing management and leadership.

Corequisite: NURS 4314 Advanced Leadership and Management

**PHIL - PHILOSOPHY****PHIL 1301 - Introduction to Philosophy**

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**

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**

A primary course in assessing ethical questions, judgments, and systems of morality. Readings will address contemporary ethical issues.

**PHIL 3343 - Philosophy and Knowledge I**

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**

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**

Survey of the ideas of the great philosophers of the modern Western world.

**PHIL 4322 - Philosophy of Religion**

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**

Permission of instructor required.

**PHIL 4391 - Selected Topics in Philosophy**

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**

Laboratory to reinforce topics in College Physics I. Experiments on motion, Newton's laws, wave mechanics, heat and thermodynamics.

Corequisite: PHYS 1301

**PHYS 1102 - Laboratory for College Physics II**

Laboratory to reinforce topics in College Physics II. Experiments conducted on electric fields, DC and AC circuits, magnetism, electromagnetic induction, light and optics.

Corequisite: PHYS 1302

**PHYS 1301 - College Physics I**

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.

Prerequisite: MATH 1314 and Trigonometry or MATH 2412,

Corequisite: PHYS 1101

**PHYS 1302 - College Physics II**

Algebra based introductory physics course. Electric forces and fields, current, DC and AC circuits, magnetism, electromagnetic induction, electromagnetic waves, light and optics.

Prerequisite: PHYS 1101, PHYS 1301

Corequisite: PHYS 1102

**PHYS 2125 - Laboratory for University Physics I**

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.

Corequisite: PHYS 2325

**PHYS 2126 - Laboratory for University Physics II**

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.

Corequisite: PHYS 2326

**PHYS 2325 - University Physics I**

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.

Prerequisite: MATH 2413

Corequisite: PHYS 2125

**PHYS 2326 - University Physics II**

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.

Prerequisite: MATH 2414, PHYS 2325

Corequisite: PHYS 2126

**PHYS 3103 - Laboratory for Modern Physics**

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.

Corequisite: PHYS 3303.

**PHYS 3303 - Modern Physics**

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.

Prerequisite: PHYS 2326 or equivalent

Corequisite: PHYS 3103

**PHYS 3311 - Mathematical Methods for Physics and Engineering I**

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.

Prerequisite: MATH 2315

**PHYS 3312 - Mathematical Methods for Physics and Engineering II**

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.

Prerequisite: PHYS 3311 or equivalent.

**PHYS 3321 - Intermediate Mechanics**

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.

Prerequisite: PHYS 3303 or equivalent.

**PHYS 3331 - Intermediate Electromagnetism**

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.

Prerequisite: PHYS 3303 or equivalent.

### **PHYS 3342 - Quantum Theory**

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.

Prerequisite: PHYS 3303 or equivalent.

### **PHYS 3351 - Thermodynamics & Statistical Mechanics**

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.

Prerequisite: PHYS 3303 or equivalent.

### **PHYS 4189 - Independent Study in Physics**

Prerequisite: Approval of instructor, chair and associate dean.

### **PHYS 4195 - Cooperative Education Work Term**

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).

Prerequisite: 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**

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.

Prerequisite: PHYS 2325

### **PHYS 4333 - Special Relativity**

In this course we derive Einstein's theory of special relativity, Lorentz transformations and relativistic electrodynamics using tensor analysis and spacetime diagrams.

Prerequisite: PHYS 3331 or Instructor approval.

### **PHYS 4352 - Fluids and Heat Transfer**

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.

Prerequisite: PHYS 2325, PHYS 2326

### **PHYS 4362 - Fundamentals of Astroparticle Physics**

Topics include: Introduction to high energy physics, symmetries and conservation rules, neutrino astrophysics, particle cosmology and astrophysics.

Prerequisite: PHYS 3303 or equivalent.

### **PHYS 4371 - Undergraduate Physics Research**

Supervised research in Physics for undergraduate students.

Prerequisite: Instructor approval required.

### **PHYS 4372 - Research Seminar**

A study of current physics, space science and engineering research projects conducted in the format of a seminar class.

**PHYS 4379 - Internship in Physics**

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.

**PHYS 4389 - Independent Study in Physics**

Prerequisite: Approval of instructor, chair and associate dean.

**PHYS 4391 - Selected Topics in Physics**

Identified by specific title each time course is offered.

## **POLS - POLITICAL SCIENCE**

**POLS 2305 - Federal Government**

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**

Origin and development of the Texas constitution, structure and powers of state and local government, federalism, and inter-governmental relations, political participation, the election process, and the political culture of Texas.

**POLS 3301 - Contemporary Issues in Political Science**

Examination of current issues and problems in American and international politics.

**POLS 3331 - Legislative Process**

Functions of the United States Congress and the Texas Legislature; legislative relationships with other sectors of government.

**POLS 3332 - State and Local Government**

Analysis of state and local government with special emphasis on the Texas State Legislature and the Houston City Council.

**POLS 3361 - Politics and Film**

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**

Examination of relationship between racial and ethnic minorities and the American political system.

**POLS 4313 - Civil Liberties in America**

Factors and forces that have altered the scope of civil liberties in the U.S.; history and analyses.

**POLS 4314 - Chief Executive**

Constitutional, political, and administrative responsibilities of chief executives in government in comparison to the President of the United States.

**POLS 4315 - Judicial Process**

The role of law, lawyers, and judges in influencing social and political change in America; history and analyses.

**POLS 4317 - Voting and Elections**

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**

Analysis of the major theoretical approaches to international politics; explores important historical and contemporary questions and debates in international affairs.

**POLS 4351 - Public Administration**

Concepts of control, productivity, and organizational design and structure; human behavior in organizations; administrative responsibility.

**POLS 4354 - Comparative Political Systems**

Planning outcomes of government action in countries other than the U.S.; implementation analysis; instruments for political participation.

Prerequisite: POLS 4351 Public Administration or equivalent

**POLS 4355 - Political Philosophy**

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**

A broad survey of major debates in political economy; an analysis of the creation, evolution, and reform of market institutions.

**POLS 4360 - Senior Seminar**

A capstone course required of graduating political science majors, which provides an overview of the discipline.

**POLS 4374 - Pre-Law Seminar and LSAT Preparation**

A test-taking intensive course designed to prepare students for the LSAT and law school.

**POLS 4380 - Internship in Government and Politics**

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**

Permission of instructor required.

**POLS 4391 - Selected Topics in Political Science**

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**

Examination of the theory and practice of budgeting in the public setting.

**PSLD 4326 - Human Resources**

Problems and practices in human resource management; selection, placement, evaluation, promotion, and termination in the public sector.

**PSLD 4328 - Social Conflict and Mediation**

Examination of theories of social conflict and application of dispute resolution/mediation techniques within fire service organizations.

Cross-Listed as: SOCI 4328 Social Conflict and Mediation.

**PSLD 4341 - Cultural Competence**

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**

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**

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**

Examination of determinants and consequences of effective and ineffective leadership in fire service organizations.

**PSLD 4345 - Strategic Planning**

Strategic planning and facilitation of organizational change in fire service organizations.

**PSLD 4346 - Organizational Communication**

Examination of general communication processes and dynamics within fire service organizations.

**PSLD 4347 - Managerial Issues in Diversity**

Exploration of the ideas necessary for leading a diverse workforce successfully.

**PSLD 4348 - Crisis Management**

Examination of crisis management from a broad holistic systems perspective covering theories and analysis of crisis management, practice of crisis management process, and handling of community crisis stress.

**PSLD 4349 - Ethics and Law**

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**

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**

Survey of research methods and statistics for the public service leadership and human sciences students.

**PSLD 4389 - Independent Study in Public Service Leadership**

Permission of instructor required.

**PSLD 4391 - Selected Topics in Public Service Leadership**

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**

A study of the 1) research and theory in the 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.

**PSYC 1300 - Learning Framework**

This broad, interdisciplinary inquiry promotes intellectual readiness for university study by examining the concepts of civic engagement and citizenship explicitly engaging students in advanced critical thinking and cognition, acquisition of resources, introduction to research, and service learning.

**PSYC 2301 - Introduction to Psychology**

Survey of the major psychological topics, theories, and approaches to the scientific study of behavior and mental processes.



### **PSYC 2314 - Lifespan and Growth Development**

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**

This course covers careers in psychology, provides experience with preparing for job searches and graduate school application process, and introduces students to APA style and writing in the social sciences. Psychology majors must take this course in the first semester of their junior year.

### **PSYC 3315 - Psychological Thinking**

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.

Prerequisite: PSYC 2301 Introduction to Psychology. Pre- or Co-requisite: PSYC 3311 Careers and Writing in Psychology

### **PSYC 3321 - Learning**

Basic principles of learning and how they apply to human behavior.

### **PSYC 3327 - Practicum in Peer Mentoring and Leadership**

This upper-level course will focus on applying the tenants 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.

Prerequisite: Students must have completed 45 credit hours and must have a 2.75 G.P.A.

### **PSYC 3331 - Theories of Personality**

Theories of the origins, structure, and dynamics of personality; emphasis on the "normal" personality.

### **PSYC 3332 - Family Psychology**

Overview of family psychology. Topics include family systems, family health, the family life cycle, and family violence.

### **PSYC 3333 - Human Sexuality**

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**

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**

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**

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**

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**

Supervised application of behavioral principles and methods in community settings. Permission of instructor required.

### **PSYC 4189 - Independent Study in Psychology**

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 Independent Study in Psychology.

**PSYC 4191 - Selected Topics in Psychology**

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**

Supervised application of behavioral principles and methods in community settings. Permission of instructor required.

**PSYC 4308 - Introduction to Women's Studies**

General information on the wide range of issues related to the status of women. Women's Studies Course.

Cross-Listed as: HUMN 4308 Introduction to Women's Studies, SOCI 4308 Introduction to Women's Studies, and WMST 4308 Introduction to Women's Studies.

**PSYC 4311 - Social Psychology**

Attitudes, social cognition, personal perception, self, social influence, relationships, prejudice, helping, and aggression. Theories, research, and application.

Cross-Listed as: SOCI 4311 Social Psychology

**PSYC 4313 - Tests and Measurements**

Informal and standardized tests of achievement, intelligence, adjustment, and aptitude.

**PSYC 4314 - Child Psychology**

Cognitive, social, and emotional development of children; psychoanalytic, behavioristic, and Piagetian approaches.

**PSYC 4315 - Adolescent Psychology**

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**

The biological basis of how one thinks, feels, and acts.

**PSYC 4318 - Sensation and Perception**

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**

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.

Prerequisite: Pre- or Co-requisite: PSYC 3321 Learning.

**PSYC 4322 - Applied Behavior Analysis II**

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.

Prerequisite: PSYC 4321 Applied Behavior Analysis I.

**PSYC 4323 - Research and Practice in Behavior Analysis**

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.

Prerequisite: PSYC 3321 Learning and Pre- or Co-requisite: PSYC 4321 Applied Behavior Analysis I.

**PSYC 4327 - Practicum in Applied Behavior Analysis**

Supervised application of behavioral principles and methods in community settings. Students may enroll twice in this course for up to "six hours credit".

Prerequisite: Pre- or Co-requisites: PSYC 3321 Learning and permission of instructor required.

**PSYC 4332 - Introduction to Industrial/Organizational Psychology**

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**

The development of sex differences and sex roles; modern viewpoints on gender-appropriate behavior. Women's Studies Course.

**PSYC 4337 - Violence Against Women**

Global perspectives of violence against women by men. Topics include rape, sexual abuse, incest, female genital mutilation, battering, sexual slavery, and sexual harassment.

Cross-Listed as: WMST 4337 Violence Against Women

**PSYC 4341 - Human Factors Psychology**

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**

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.**

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**

Neurotic and psychotic personality patterns; etiology, symptoms, diagnosis, and correctional methods and institutions viewed from a psychological perspective.

**PSYC 4356 - The Aging Experience**

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 as: SOCI 4356 The Aging Experience.

**PSYC 4370 - Behavioral Statistics**

Introduction to descriptive and inferential statistics in the behavioral sciences.

**PSYC 4371 - Research Methods**

Analysis and application of social science research techniques.

**PSYC 4372 - Seminar in Women's Studies**

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 as: HUMN 4372 Seminar in Women's Studies, HUMN 5732 Seminar in Women's Studies, PSYC 5732 Seminar in Feminist Theory, and WMST 4372 Seminar in Women's Studies.

**PSYC 4375 - Personal Stress Management**

Various methodologies for stress management emphasizing personal applications.

**PSYC 4382 - Cognitive Psychology**

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**

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 Independent Study in Psychology.

**PSYC 4391 - Selected Topics in Psychology**

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**

This course is designed for psychology majors as a capstone experience. It will be a seminar style class with a rotating list of topics.

Prerequisite: PSYC 2301 Introduction to Psychology, PSYC 4370 Behavioral Statistics, PSYC 4371 Research Methods.

## SENG - SYSTEMS ENGINEERING

**SENG 4310 - Introduction to Systems Engineering**

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.

Prerequisite: MATH 2315

## SILC - STUDIES IN LANGUAGE AND CULTURE

**SILC 4301 - Spanish for Bilingual Teachers**

Development of advanced reading and writing skills in Spanish with special emphasis on communication with the bilingual community. Course taught in Spanish.

Prerequisite: Fluency in Spanish.

**SILC 4302 - Introduction to the Study of Languages**

Study of phonology, morphology, syntax and semantics of the English language.

**SILC 4310 - Foundations of Bilingual and ESL Education**

Survey of social, political, economic and educational issues related to the development and implementation of bilingual education and ESL programs.

**SILC 4311 - ESL Methods**

Emphasis on teaching English to second language learners in the ESL classroom and on putting theory into practice.

**SILC 4312 - Content-Based ESL**

Issues related to the integration of content with ESL instruction. Field experiences required.

**SILC 4313 - Language Learning**

Analysis of language acquisition and second language learning.

**SILC 4315 - Theories of American Pluralism**

A review of theoretical foundations of pluralism and their impact on mainstream America.

**SILC 4316 - Bilingual Curriculum in the Content Areas**

Study and design of the content area curriculum within a bilingual education program. Course taught in Spanish and English.

Prerequisite: Fluency in Spanish and SILC 4301.

**SILC 4317 - Developing Content Literacy in the Bilingual Classroom**

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**

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**

A comprehensive study of theories and research dealing with the development of biliteracy. Course taught in Spanish and English.

Prerequisite: Fluency in Spanish and SILC 4301.

**SILC 4389 - Independent Study in Bilingual Education/Esl**

Prerequisite: Approval of instructor and associate dean.

**SILC 4391 - Selected Topics in the Studies of Language and Culture**

Identified by title each time course offered.

## **SOCI - SOCIOLOGY**

**SOCI 1301 - Introduction to Sociology**

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**

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**

Theories of causation, patterns, and social response.

Cross-Listed as: CRIM 3312 Criminology.

**SOCI 3313 - Urban and Rural Health**

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**

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**

This course will explore the religious diversity in Houston. Of particular interest is the diversity of religious practice 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 as: SOCI 5233 Religion and Immigration Studies in Houston.

**SOCI 3335 - Deviance**

Theories of the existence of deviance in society; management of spoiled identities.

Cross-Listed as: CRIM 3335 Deviance.

**SOCI 3351 - Political Sociology**

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**

The social organization of urban life and the structure of power in communities; urban problems and strategies for change.

**SOCI 4180 - Honors Statistics Lab**

Computer lab class that must be taken concurrently with SOCI 4380 Honors Statistics.

Prerequisite: 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**

Computer lab class that must be taken concurrently with SOCI 4381 Honors Research Methods.

Prerequisite: Must be Sociology major; must pass entry algebra test during first Honors Methods class with score of 80% or higher.

**SOCI 4303 - Human Services**

Overview of human services. Includes historical basis, current perspectives, casework terms, and institutions.

**SOCI 4304 - Professional Issues in Human Services**

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 4308 - Introduction to Women's Studies**

General introduction to the wide range of issues related to the status of women. Women's Studies Course.

Cross-Listed as: HUMN 4308 Introduction to Women's Studies, PSYC 4308 Introduction to Women's Studies, and WMST 4308 Introduction to Women's Studies.

**SOCI 4311 - Social Psychology**

Conformity, mass communication and propaganda, self-justification, prejudice, human aggression, attraction, cooperation and competition theory, research, and application.

Cross-Listed as: PSYC 4311 Social Psychology.

**SOCI 4312 - Social Structure: Class, Power, and Status**

Various interpretations of America's system of social stratification.

**SOCI 4313 - Juvenile Delinquency**

Individual and community aspects of juvenile delinquency; theories of causes and modes of control.

Cross-Listed as: CRIM 4313 Juvenile Delinquency.

**SOCI 4315 - The Death Penalty**

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 as: CRIM 4315 The Death Penalty and SOCI 5135 The Death Penalty.

**SOCI 4316 - Women and the Law**

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 as: WMST 4316 Women and the Law

**SOCI 4317 - Race and the Law**

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**

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**

A review of historical and contemporary statements on the nature of society by philosophers and scientists.

**SOCI 4323 - Religion in Society**

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**

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**

Examination of theories of social conflict and application of dispute resolution/mediation techniques to needs of community groups, courts, churches, businesses, and non-governmental agencies.

Cross-Listed as: PSLD 4328 Social Conflict and Mediation.

**SOCI 4329 - Egypt in Transition**

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**

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**

Correctional institutions in the United States; analysis of their changing roles and functions.

Cross-Listed as: CRIM 4331 Prison and Society.

**SOCI 4332 - Sociology of Law**

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**

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**

Survey of structure and rationale for criminal law; topics include criminal liability, criminal defenses, and types of offenses.

Cross-Listed as: CRIM 4334 Criminal Law, CRIM 5338 Criminal Law, and SOCI 5338 Criminal Law.

**SOCI 4335 - Social Change and Social Movements**

This course will explore macrosocial historical change in American society through protest, innovation, and social movements.

**SOCI 4341 - Women in Society**

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 as: ANTH 4341 Gender and Sexuality in Global Perspectives and WMST 4341 Women in Society.

**SOCI 4342 - Human Rights and Social Justice**

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**

Overview of basic theories of administrative organization, relationships, and behavior. How to structure, manage, direct, and control units within governmental organizations.

Cross-Listed as: PSLD 4343 Public Service Management

**SOCI 4344 - Public Service Leadership**

Examination of determinants and consequences of effective and ineffective leadership in non-profit and governmental organizations.

Cross-Listed as: PSLD 4344 Public Service Leadership

**SOCI 4345 - Strategic Planning**

Strategic planning and facilitation of organizational change in non-profit and governmental organizations.

Cross-Listed as: PSLD 4345 Strategic Planning

**SOCI 4346 - Organizational Communication**

Examination of general communication processes and dynamics within non-profit and governmental organizations.

Cross-Listed as: PSLD 4346 Organizational Communication

**SOCI 4355 - Minorities in America**

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**

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 as: PSYC 4356 The Aging Experience.

**SOCI 4357 - Sociology of Family, Work, and Gender**

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**

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**

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**

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**

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**

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**

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 as: WMST 4335 Women's Health and Sexuality

### **SOCI 4379 - Internship in Human Services**

Students will do one-semester field placement in a Human Services agency.

Prerequisite: Permission of instructor.

### **SOCI 4380 - Honors Statistics**

Teaches motivated students how to use, understand, and conduct data analysis. Must be taken concurrently with SOCI 4180 Honors Statistics Lab.

Prerequisite: 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**

Teaches motivated students how to design, understand, evaluate, and conduct various forms of social research. Must be taken concurrently with SOCI 4181 Honors Research Methods Lab.

Prerequisite: 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**

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**

Teaches students how to use, understand, and conduct data analysis.

Prerequisite: College Algebra.

### **SOCI 4385 - Research Methods**

Teaches students how to design, understand, evaluate, and conduct various forms of social research.

Prerequisite: College Algebra.

### **SOCI 4389 - Independent Study in Sociology**

Permission of instructor required.

### **SOCI 4391 - Selected Topics in Sociology**

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**

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**

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**

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**

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**

Focus on the intensive study of spoken and written language to facilitate spontaneity of expression.

Prerequisite: 2000-level Spanish or the equivalent.

**SPAN 3312 - Intensive Spanish III**

Focus on the intensive study of spoken and written language to facilitate spontaneity of expression.

Prerequisite: SPAN 3311 Intensive Spanish II or the equivalent.

**SPAN 4391 - Selected Topics in Spanish**

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**

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.

Prerequisite: TCED 1301

**SPED 4300 - Survey of Exceptionalities**

The course will provide a study of teaching students with disabilities and diverse needs with an emphasis on making individualized effective instructional decisions.

Prerequisite: SPED 2301 or equivalent

**SPED 4311 - Assessment in Special Education**

A survey of special education assessment procedures with a focus on alternate assessment procedures used in inclusive settings to link assessment and instruction.

Prerequisite: SPED 2301 or equivalent

**SPED 4312 - Diagnostic Instruction for Learners With Special Needs**

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.

Prerequisite: SPED 2301 or equivalent, SPED 4311 or equivalent, concurrent enrollment in a TCED or LLS methods course.

**SPED 4313 - Individualizing Instruction for Students With Disabilities**

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.

Prerequisite: SPED 2301, SPED 4311, SPED 4312, SPED 4321, SPED 4332 or equivalents.

**SPED 4321 - Implementing Positive Behavior Supports**

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.

Prerequisite: SPED 2301

### **SPED 4332 - Early Childhood Special Education**

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.

Prerequisite: SPED 2301

### **SPED 4333 - Advanced Early Childhood Special Education**

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**

Fieldwork with infants and/or young children with special needs to include school-based, agency-based or private programs.

Prerequisite: Completion of all prior coursework for the Early Childhood Handicapped Endorsement.

### **SPED 4389 - Independent Study of Individual Differences**

Prerequisite: Approval of instructor and associate dean.

### **SPED 4391 - Selected Topics in Special Education**

Identified by specific title each time course is offered.

## **STAT - STATISTICS**

### **STAT 1342 - Elementary Statistical Methods**

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.

Prerequisite: Meet TSI college-readiness standard for Mathematics; or equivalent.

### **STAT 3308 - Computational Statistics**

Descriptive statistics, basic probability concepts, normal distribution, parameter estimation, testing of hypothesis, correlation and regression, statistical computation using Excel.

Prerequisite: MATH 1314 or equivalent. Not available for mathematics majors.

### **STAT 3334 - Probability and Statistics for Scientists and Engineers**

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.

Prerequisite: MATH 2413, MATH 2414; Not available for mathematics majors.

### **STAT 4326 - Introduction to Survey Sampling**

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.

Prerequisite: Consent of Instructor

### **STAT 4328 - Introduction to Statistical Computing Packages**

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, simple analysis of variance, simple regression data analysis.

Prerequisite: MATH 2413

**STAT 4344 - Introduction to Probability**

Sample space, probability function, combinatorics, discrete and continuous random variables, special probability distributions, moment generating function, multivariate distributions and central limit theorem.

Prerequisite: MATH 2414

**STAT 4345 - Introduction to Statistics**

Sampling distributions, point and interval estimation, hypothesis testing, regression and correlation, nonparametric statistics, analysis of variance.

Prerequisite: MATH/STAT 4344

**STAT 4346 - Probability for Actuarial Exam P1**

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.

Prerequisite: MATH/STAT 4344

**STAT 4348 - Introduction to Financial Math for Exam FM**

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.

Prerequisite: MATH 2413

**STAT 4350 - Financial Economics**

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.

Prerequisite: STAT 4344

## **SWEN - SOFTWARE ENGINEERING**

**SWEN 3320 - Engineering Multimedia Software**

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).

Prerequisite: CSCI 1370.

**SWEN 3340 - Principles of Engineering Software**

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.

Prerequisite: SWEN 3320.

**SWEN 4195 - Cooperative Education Work Term**

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).

Prerequisite: Approved Candidate Plan of Study, completed cooperative education file and approval of associate dean and Director of Cooperative Education.

**SWEN 4314 - Interface Engineering**

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.

Prerequisite: CSCI 2315.

**SWEN 4317 - Introduction to Game Design and Development**

Principles of game design and development of software for computer gaming.

Prerequisite: CSCI 2315

**SWEN 4318 - Virtual Worlds, Sims and Animation Scripting**

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 be required to purchase special software.

Prerequisite: A course in data structures, proficiency in programming.

**SWEN 4320 - Introduction to Software Process and Project Management**

Introduction to Software Process Models, process modeling and improvement; project planning, scheduling and project management.

Prerequisite: CSCI 2315.

**SWEN 4330 - Software Development in Emerging Domains**

Design and implementation of software in emerging new fields of interest. Topics will include software development in robotics and cell phone applications (apps).

Prerequisite: SWEN 3320, SWEN 3340.

**SWEN 4342 - Software Engineering**

Introduction to Software Engineering. Major phases of the software life cycle are introduced from requirements through maintenance.

Prerequisite: A course in programming in a high level language, Data Structures recommended.

**SWEN 4343 - Current Tools and Innovative Technologies**

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.

Prerequisite: A course in programming in a high level language and data structures.

**SWEN 4345 - Introduction to Personal Software Process**

Personal evaluation and practice of the software design process, assessments, modeling and improving techniques.

Prerequisite: CSCI 1320.

**SWEN 4365 - Senior Project I**

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.

Prerequisite: Approval of instructor.

**SWEN 4366 - Senior Project II**

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.

Prerequisite: SWEN 4365 and approval of instructor.

**SWEN 4391 - Research Topics in SWEN**

Identified by specific title each time course is offered.

**SWRK - SOCIAL WORK****SWRK 4301 - Introduction to Social Work**

Overview of field of social work, including history, philosophy, values, roles, fields of practice, and settings for professional social work practice. Students are required to complete 40-hour volunteer placement.

**SWRK 4304 - Issues and Ethics in Social Work**

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 4314 - Diversity and Human Development Throughout the Life Cycle**

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.

Prerequisite: Pre- or Co-requisites: SWRK 4301 Introduction to Social Work and SWRK 4304 Issues and Ethics in Social Work.

**SWRK 4317 - Social Welfare Policy and Services**

Examination of social welfare and policies and the impact of policy on client systems of all sizes.

Prerequisite: Pre- or Co-requisite: SWRK 4301 Introduction to Social Work and SWRK 4304 Issues and Ethics in Social Work.

**SWRK 4318 - Social Work Practice I**

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.

Prerequisite: SWRK 4301 Introduction to Social Work, SWRK 4304 Issues and Ethics in Social Work, SWRK 4314 Diversity and Human Development throughout the Life Cycle, and SWRK 4324 Oppression, Diversity and Social Justice; all with a "C" or better. Preferably completion of Overview Requirements (Psychology, Sociology, and/or Anthropology).

**SWRK 4319 - Social Welfare Policy Analysis**

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.

Prerequisite: SWRK 4317 Social Welfare Policy and Services with a "C" or better.

### **SWRK 4324 - Oppression, Diversity, and Social Justice**

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.

Prerequisite: Pre- or Co-requisite: SWRK 4301 Introduction to Social Work, SWRK 4304 Issues and Ethics in Social Work, and SWRK 4317 Social Welfare Policy and Services.

### **SWRK 4328 - Social Work Practice II**

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.

Prerequisite: SWRK 4318 Social Work Practice I with a "C" or better.

### **SWRK 4338 - Social Work Practice III**

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.

Prerequisite: SWRK 4328 Social Work Practice II with a "C" or better.

### **SWRK 4363 - Research Methods**

Design and application of quantitative and qualitative research methods.

Prerequisite: Pre- or Co-requisites: SWRK 4301 Introduction to Social Work and SWRK 4304 Issues and Ethics in Social Work with grades of "C" or better.

### **SWRK 4370 - Behavioral Statistics**

Permutations and combinations, probability, hypotheses testing, sample theory, parameter estimation, frequency functions, and correlation and regression. Applications in the behavioral sciences.

Prerequisite: Pre- or Co-requisite: SWRK 4301 Introduction to Social Work, SWRK 4304 Issues and Ethics in Social Work, with grades of "C" or better.

### **SWRK 4389 - Independent Study in Social Work**

Permission of instructor required.

### **SWRK 4391 - Selected Topics in Social Work**

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**

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.

Prerequisite: 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 Social Welfare Policy Analysis. Any variations require prior approval of the Director of Field Education.

### **SWRK 4629 - Social Work Internship II**

240-hour generalist social work practice internship.

Prerequisite: All other coursework must be completed. Must have approval of BSW Program and Field Director. Any variations require prior approval of the Director of Field Education.

## **TCED - TEACHER EDUCATION**

### **TCED 1301 - Exploring Teaching as a Profession**

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**

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**

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. In-class 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**

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**

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**

This internship is restricted to members of UHCL's Alternative Certification Program. Field experiences required in a public school setting.

Prerequisite: TCED 4678 and TCED 4679 and approval of the associate dean.

**TCED 4100 - Core Subjects Teacher Seminar**

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).

Prerequisite: Admission to Teacher Education Program and an approved, signed degree or certification plan on file in the COE.

**TCED 4102 - Secondary (4-8 & 7-12) Content Teacher Seminar**

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).

Prerequisite: 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**

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**

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.

Prerequisite: Prerequisites or Corequisites: WRIT 3307 and INST 3313.



**TCED 4304 - Creating Positive Learning Environments in 4-8**

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.

Prerequisite: Prerequisites or Corequisites: INST 3313 and writing course required by respective degree plan (WRIT 3307, WRIT 3315, ENGL 2311, ENGL 2344 or LITR 3302).

**TCED 4306 - Creating Positive Learning Environments in 7-12**

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.

Prerequisite: Prerequisites or Corequisites: INST 3313 and writing course required by respective degree plan (WRIT 3307, WRIT 3315, ENGL 2311, ENGL 2344 or LITR 3302).

**TCED 4308 - Assessments and Testing in Schools**

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**

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.

Prerequisite: Admission to the Teacher Education Program and successful completion of TCED 4303.

**TCED 4322 - Science Methods for EC-6**

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.

Prerequisite: Admission to the Teacher Education Program and successful completion of TCED 4303.

**TCED 4323 - Mathematics Methods for EC-6**

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.

Prerequisite: MATH 3302 and admission to the Teacher Education Program and successful completion of TCED 4303.

**TCED 4331 - Social Studies Methods for Grades 4-8**

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.

Prerequisite: Admission to Teacher Education Program and successful completion of TCED 4304.

**TCED 4332 - Science Methods for Grades 4-8**

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.

Prerequisite: Admission to Teacher Education Program and successful completion of TCED 4304.

**TCED 4333 - Mathematics Methods for Grades 4-8**

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.

Prerequisite: MATH 1315, admission to Teacher Education Program and successful completion of TCED 4304.

#### **TCED 4361 - Methods in Secondary Social Studies**

Strategies for developing social studies activities; emphasis on instructional techniques, content disciplines, local community, values and controversial issues and national trends. Field experiences required.

Prerequisite: Admission to the Teacher Education Program and successful completion of TCED 4306.

#### **TCED 4362 - Methods in Secondary Science**

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.

Prerequisite: Admission to the Teacher Education Program and successful completion of TCED 4306.

#### **TCED 4363 - Methods in Secondary Mathematics**

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.

Prerequisite: MATH 3304 or equivalent, admission to the Teacher Education Program and successful completion of TCED 4306.

#### **TCED 4364 - Methods in Technology**

Strategies for teaching technology applications; emphasis on instructional techniques, development of problem-solving skills and issues and trends in technology applications. Field experiences required.

Prerequisite: Admission to Teacher Education Program, successful completion of or concurrent enrollment in TCED 4306.

#### **TCED 4377 - THECB Aide Project**

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.

Prerequisite: Admission to Teacher Education Program and approval of the associate dean.

#### **TCED 4378 - Pre-Service Internship I**

Field experiences required in a public school setting. TCED 4100 or TCED 4102 must be taken prior to consideration for Internship I (TCED 4378).

Prerequisite: Approval of associate dean and completion of WRIT 3307 with a grade of C+ or better.

#### **TCED 4389 - Independent Study in Teacher Education**

Prerequisite: Approval of instructor and associate dean.

#### **TCED 4391 - Selected Topics in Teacher Education**

Identified by title each time course is offered.

#### **TCED 4668 - Pre-Service Internship II/Student Teaching- Generalist**

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.

Prerequisite: TCED 4378 and approval of the associate dean.

#### **TCED 4678 - Post-Degree Internship I**

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.

Prerequisite: Approval of associate dean.

### **TCED 4679 - Post-Degree Internship II/Student Teaching**

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.

Prerequisite: Approval of associate dean.

### **TCED 4978 - Pre-Service Internship II/Student Teaching**

Field experiences required in a public school setting.

Prerequisite: TCED 4378 and approval of the associate dean.

## **WMST - WOMEN'S STUDIES**

### **WMST 1301 - Gender Matters**

Examination of gender as a lens with which to view human experience. The categories of Femaleness, Maleness, and Otherness are used by individuals, families, and private and public entities to bestow or deny rewards in every social system.

### **WMST 3341 - Women in American History**

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 as: HIST 3341 Women in American History.

### **WMST 4189 - Independent Study in Women's Studies**

Permission of instructor required. May be taken for 1 hour of credit. For 3 hours of Independent Study credit, students should enroll in WMST 4389 Independent Study in Women's Studies.

### **WMST 4308 - Introduction to Women's Studies**

General introduction to the status of women in many academic disciplines.

Cross-Listed as: HUMN 4308 Introduction to Women's Studies, PSYC 4308 Introduction to Women's Studies, and SOCI 4308 Introduction to Women's Studies.

### **WMST 4312 - Women of Color**

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.

### **WMST 4314 - Latina Social Movements in the Americas**

This course invites students to use the historical record to imagine and analyze gender and the roles of women in Latin America.

### **WMST 4316 - Women and the Law**

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 as: SOCI 4316 Women and the Law.

### **WMST 4329 - History of Feminism**

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.

Cross-Listed as: HIST 4329 History of Feminism.

### **WMST 4334 - Psychology of Women**

Development of sex differences and sex roles; modern viewpoints on gender-appropriate behavior.

### **WMST 4335 - Women's Health and Sexuality**

Survey of current issues in women's health and sexuality using a life-span perspective.

Cross-Listed as: SOCI 4367 Women's Health and Sexuality

**WMST 4337 - Violence Against Women**

Global perspectives of violence against women by men. Topics include rape, sexual abuse, incest, female genital mutilation, battering, sexual slavery, and sexual harassment.

Cross-Listed as: PSYC 4337 Violence Against Women

**WMST 4341 - Women in Society**

Cross-cultural study of the environmental, biological, and cultural factors in the division of labor and assignment of roles, male and female.

Cross-Listed as: ANTH 4341 Gender and Sexuality in Global Perspectives and SOCI 4341 Women in Society.

**WMST 4348 - Development of Gender and Racial Identity**

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.

**WMST 4360 - Women in Literature**

Heroines from Eve to Beloved; literature constructs the female; emphasis on 19th- and 20th-century works.

**WMST 4370 - Gender and Identity in the Visual Arts**

History, theory, and criticism in relation to issues of gender, sexuality, and identity in the visual arts.

**WMST 4372 - Seminar in Women's Studies**

An advanced course in Women's 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.

Prerequisite: Any previous course with Women's Studies content.

Cross-Listed as: HUMN 4372 Seminar in Women's Studies, HUMN 5732 Seminar in Women's Studies, PSYC 4372 Seminar in Women's Studies, and PSYC 5732 Seminar in Feminist Theory.

**WMST 4389 - Independent Study in Women's Studies**

Permission of instructor required. May be taken for 3 hours of credit. For 1 hour of Independent Study credit, students should enroll in WMST 4189 Independent Study in Women's Students.

**WMST 4391 - Selected Topics in Women's Studies**

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**

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**

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.

Prerequisite: WRIT 1301 Composition I or equivalent.

**WRIT 3304 - Writing for Education**

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.

Prerequisite: WRIT 1301 Composition I and WRIT 1302 Composition II with a "C-" or better and junior-level standing.

**WRIT 3305 - Writing for the Humanities**

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.

Prerequisite: WRIT 1301 Composition I and WRIT 1302 Composition II with a "C-" or better and junior level standing.

**WRIT 3306 - Writing for the Social Sciences**

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.

Prerequisite: WRIT 1301 Composition I and WRIT 1302 Composition II with a "C-" or better and junior level standing.

**WRIT 3307 - Advanced Writing**

From invention of ideas to strategies appropriate to various kinds of writing. Models of organization, analysis of style, role and importance of mechanics and syntax.

Prerequisite: Completion of WRIT 1301 Composition I and WRIT 1302 Composition II with a grade of C- or better and junior-level standing.

**WRIT 3312 - Written Communications in Business**

Theory and practices of business communications: preparation of effective letters, policy statements, procedures, reports, and related documents.

Prerequisite: Completion of WRIT 1301 Composition I and WRIT 1302 Composition II with a grade of C- or better and junior-level standing.

**WRIT 3315 - Advanced Technical Writing**

Advanced approaches to the writing of technical documents for professional audiences: correspondence, proposal reports, manuals, and descriptions.

Prerequisite: Completion of WRIT 1301 Composition I and WRIT 1302 Composition II with a grade of C- or better and junior-level standing.

**WRIT 4310 - Writing for the Public**

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.

Prerequisite: WRIT 1301 Composition I and WRIT 1302 Composition II with a C or better and in junior standing.

**WRIT 4311 - Grant Writing**

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.

Prerequisite: WRIT 1301 Composition I and WRIT 1302 Composition II with a C or better and in junior standing.

**WRIT 4312 - The Rhetoric of Popular Culture**

Combines rhetorical analysis with critical studies including Marxist, feminist, visual, and media-centered criticism and queer theory. Through these lenses, students will analyze movies, television, music, public speeches, advertising, and other media.

Prerequisite: WRIT 1301 Composition I and WRIT 1302 Composition II with a C or better and in junior standing.

**WRIT 4313 - Graffiti, Texting, and Networked Politics: The Sociolinguistics of Writing**

The study of writing as a sociolinguistic object. Examines a new sociolinguistics of globalization with a focus on mobility, multilingualism, and superdiversity.

Prerequisite: WRIT 1301 Composition I and WRIT 1302 Composition II with a C or better and in junior standing.

**WRIT 4391 - Selected Topics in Writing**

Identified by specific title each time course is offered. Topics vary; may be repeated for credit with permission of instructor.

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*(Term Expiring May 31, 2016)*

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