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UNIVERSITY OF HOUSTON - CLEAR LAKE 2700 Bay Area Boulevard Houston, Texas 77058-1098

Telephone: 281-283-2500

Important dates are available at: http://www.uhcl.edu/records

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DIRECTORY

	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		283-3400
Academic Advising	B1539	283-3333
Intercultural Student Services		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

DIRECTIONS



From North on I-45: Travel south on I-45 to the Bay Area Blvd. exit. Continue east on Bay Area Blvd. Follow the signs four miles to UHCL. Enter Entrance 1 and follow the signs to the Bayou Building. Park in visitor parking, Lot D.

From South on I-45: Travel north on I-45. Exit at Bay Area Blvd. Right on Bay Area Blvd. four miles to UHCL. Enter Entrance 1 and follow the signs to the Bayou Building. Park in visitor parking, Lot D.

From Highway 225: Travel to I-45 and follow the directions to "From North on I-45."

From Highway 146: Travel south on Highway 146 to Fairmont Pkwy. Right on Fairmont Pkwy. to Bay Area Blvd. Left on Bay Area Blvd. to UHCL. Left at Brook Forest Entrance 2. Follow signs to visitor parking, Lot D.

From Highway 6 South: Travel northwest to Hwy. 35 Bypass. Go north on Hwy. 35 Bypass to FM 528. Right on FM 528 to I-45. Follow the directions to "From South on I-45."

From Highway 6 North: Travel southeast to Hwy. 35. Go north on Hwy. 35 to FM 528. Right on FM 528 to I-45. Follow the directions to "From South on I-45."

THE UNIVERSITY

OVERVIEW

University of Houston-Clear Lake is an upper-level educational institution with a distinct identity, whose primary role is to provide fair and equitable learning opportunities to undergraduate and graduate students. 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. The university emphasizes high standards for teaching and learning in its bachelor's, master's and doctoral degree programs, as well as in its professional plans and collaboration in doctoral plans. All offerings are designed to develop creative, quantitative, communication and critical thinking skills of students.

The university's faculty, staff and administrators are committed to providing a humane, responsive and intellectually stimulating environment for productive learning and working. UHCL emphasizes (a) learning through teaching, research, scholarship and professional and community service; (b) the advancement of knowledge; (c) delivery of educational opportunities through new instructional technologies and through distance learning; (d) a commitment to high academic standards; (e) sensitivity to the needs of the students and communities served by the institution; and (f) above all, integrity in all institutional functions.

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 is committed to enhancing the educational, economic, cultural, scientific, business and professional environment of the region. 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.

Academic theories are applied and research is conducted through UHCL's centers, institutes, clinics and laboratories. These entities include:

- Art School for Children and Young Adults
- Center for Advanced Management Programs
- Center for Autism and Developmental Disabilities
- Center for Behavioral Neuroscience Research
- Center for Educational Programs
- Center for Professional Development of Teachers
- Counseling Clinic
- Cyber Security Institute
- Diagnostic Reading Clinic
- Environmental Institute of Houston
- Human Performance Institute
- Learning Resources Review Center

- Mathematics Center
- Psychological Services Clinic
- Research Center for Language and Culture

LOOKING BACK: 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 60 professors comprised the charter faculty. Today, the university has approximately 8,000 students and more than 600 full-time and adjunct faculty.

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 and psychology.

LOOKING FORWARD: FIRST FRESHMAN CLASS

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

ACCREDITATIONS

University of Houston-Clear Lake is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award baccalaureate, masters', 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 School 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 School of Education is accredited by the Council for the Accreditation of Educator Preparation (CAEP), 2010 Massachusetts Ave. NW, Suite 500, Washington, D.C. 20036, phone 202-223-0077. This accreditation covers all of the institution's initial teacher preparation and advanced educator preparation programs. The School of Education is also accredited by the Texas State Board for Educator Certification.

The School of Human Sciences and Humanities' family therapy program is accredited by the Commission on Accreditation for Marriage and Family Therapy Education. The school psychology program is accredited by the National Association of School Psychologists (NASP) and is nationally-

approved by the National Association of School Psychologists. The Bachelor of Social Work is accredited by the Council on Social Work Education (CSWE).

The School of Science and Computer Engineering's undergraduate degree plan in computer engineering is accredited by the Engineering Accreditation Commission (EAC) of the ABET. The undergraduate degree plans in computer science and computer information systems are accredited by the Computer Accreditation Commission of the 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 Accreditation Commission (ASAC) of ABET.

The School of Science and Computer Engineering's undergraduate degree plan in computer engineering is accredited by the Engineering Accreditation Commission (EAC) of the ABET. The undergraduate degree plans in computer science and computer information systems are accredited by the Computer Accreditation Commission of the 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 Accreditation Commission (ASAC) of ABET.

The Office of Career and Counseling Services is accredited by the International Association of Counseling Services.

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 UHS 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. Members of the UHCL Community Partners Council serve as business, education, government and nonprofit organization advisers on current issues impacting the advancement of the university and as volunteers in helping UHCL acquire resources.

THE CAMPUS

UHCL's buildings, which comprise more than three-quarter million 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 the 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, vehicle maintenance, printing and graphic services and the animal care facility.

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, email library@uhcl.edu or online at 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 160 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 any academic or public library in Texas and check out a book, which can then be returned to Neumann Library. 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 35 fixed computer workstations for student use.

The library occupies approximately 80,000 square feet in the Bayou Building and contains laptop-friendly study space, group study rooms and a soundproof quiet study room. The library contains more than 524,000 volumes, and provides access to 35,000 electronic periodicals. The library has a collection of DVDs and audio books, and offers streaming video, which can be accessed from off-campus. A curriculum library for education students contains K-12 textbooks, classic and contemporary children's literature, and a review center for recent children's literature. Neumann Library also includes University Archives, which houses the NASA Johnson Space Center History Collection.

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, room 2300, or contact the center by phone at 281-283-2828 or email at supportcenter@uhcl.edu. Visit www.uhcl.edu/uct for details on available services, including documentation, self-help guides, and policies

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

- Email accounts
- Various technology orientations and training programs including online software training, student lab orientation, new student, faculty, and staff orientations, computer use training, faculty orientation for classroom technology, and Blackboard training for faculty
- Wireless-equipped laptops may be checked out for free from several convenient locations on campus
- Academic computing labs for students, in multiple locations, open daily including weekends.
 Printers and photo/document scanners available in all labs. Lab hours and locations can be found at www.uhcl.edu/uct
- Specialized teaching labs including PC labs for students to work in teams, a high-performance PC
 lab for special graphic application usage, and a Mac lab equipped with 24-inch iMacs for video
 editing/creating, digital graphics and photography classes
- University classrooms equipped with integrated video and audio technology
- Support for online students using the Blackboard Course Management System

- · Support for faculty in instructional design of online courses as well as for web-enhanced instruction
- Webpages for the university, schools, programs, faculty and individual courses (www.uhcl.edu)
- Wireless access in all campus classroom buildings
- · High-speed network for data, video and Internet access
- Up-to-date computing hardware and software including 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)
- Strong commitment to software engineering and relational database technology
- Siemen's telecommunications system for voice communications, including phone mail and fax service for faculty and staff.

MATHEMATICS CENTER

The Mathematics 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 Mathematics Center also teams with the Office of Career and Counseling Services to provide math success workshops. Contact the Mathematics Center at 281-283-3883 or mathcenter@uhcl.edu.

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 services at the UHCL, Pearland, Sugar Land, and Medical Center campuses, as well as online tutoring for currently registered students. For more information, contact the Writing Center at 281-283-2910, visit www.uhcl.edu/writingcenter, email writingcenter@uhcl.edu, or drop by SSCB 2105.

UHCL ALUMNI ASSOCIATION

UHCL is committed to its alumni. The purpose of the Office of Alumni and Community Relations, and the alumni association as the volunteer leadership component, is to contact, engage, serve, empower and acknowledge alumni through meaningful services, events and outreach.

All UHCL graduates and recipients of teacher's certificates are automatically members of the UHCL Alumni Association with no dues necessary. This means that UHCL graduates have access to the entire family of alumni, plus a host of great benefits. To learn more about the UHCL Alumni Association or to get involved, visit www.uhcl.edu/alumni or contact the Office of Alumni and Community Relations at 281-283-2021 or alumni@uhcl.edu.

UNIVERSITY POLICE

The University Police Department is responsible for law enforcement, security and emergency response at UHCL. 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. The police business office is open Monday through Thursday from 8 a.m. - 6 p.m. for parking permits and fine payments. Trained, professional police and communications officers staff the department. Services provided by the university police include: issuance of all parking permits, lock shop services including the issuance of codes 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. For a complete overview of the University Police Department and its services, visit www.uhcl.edu/police.

NEW STUDENT ADMISSIONS

GENERAL INFORMATION

ADMISSION STATUSES

Admission is defined as permission to enroll in courses for academic credit. Admission to the university does not guarantee admission to a specific major or academic program. High School and Transfer Applicants may be admitted as new or returning undergraduate students.

New students:

High School and Transfer students who have never enrolled or have not been enrolled at University of Houston-Clear Lake (UHCL) beyond the census date of any semester

Former undergraduate students:

Students who have attended UHCL as undergraduates, but have not enrolled during the past three consecutive semesters

Former students, who left UHCL in good standing, must be readmitted under the current freshman (p. 33) or Transfer Student (p. 36) admission requirements. Those who left due to an academic deficiency should follow the university's readmission policy.

Post-baccalaureate students:

Students who have a conferred bachelor's degree and will enroll as undergraduates

Student Degree Options

Degree-seeking students:

Students who are applying for admission to an academic degree program

Non-degree-seeking students

Students 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 to pursue a degree at UHCL in a future semester. Credit earned in non-degree status will not automatically be applicable to a specific academic degree program. Enrollment in some courses are restricted to degree-seeking students only and the number of hours applicable to the 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)

Students 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

They must provide all documentation required for admission prior to registration. Once enrolled, if students wish to enroll in a different semester, they must obtain permission from the associate dean of their academic program and then reapply by submitting a new application and application fee to the Office of Admissions.

EMAIL COMMUNICATION

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

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

NOTIFICATION OF ADMISSION

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

ACCEPTANCE INTO A DEGREE PROGRAM

Acceptance into a degree program is determined by each academic school 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 12 months must contact their academic advisor 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' and the Office of International Admissions and Programs' websites. 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.

Additional information 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, extracurricular activities or other information or supporting documentation. For domestic applicants, a complete application packet of all required documents and scores must be on file in the Office of Admissions prior to the review. For international applicants, a complete application packet of all required documents and scores must be on file in the Office of International Admissions and Programs.

ACADEMIC FRESH START

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

Academic Fresh Start can be used for undergraduate admission purposes only. Once students enroll, a request for Academic Fresh Start will not be accepted and once a student enrolls under this 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 postgraduate or professional schools.

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 (domestic applicants) or the Office of International Admissions and Programs (international applicants) 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 or the Office of International Admissions and Programs 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

The transfer college or university must be listed among the recognized institutions of the International Association of Universities (UNESCO) or Ministry of Education.

Transcripts from International Institutions

International students must provide the Office of International Admissions and Programs official transcripts, mark (grades) sheets and confirmation of degree or diploma for all academic studies attempted and completed at international colleges/universities, prior to enrollment.

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.

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. Copies of documents that are not certified will not be accepted.

Students requesting to transfer specific undergraduate course work must provide an evaluation of course equivalency, in order to determine applicable credit. 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 necessary, UHCL may request a syllabus or catalog to determine equivalency and appropriate course content for work completed outside of the United States. If all required documentation is received, an official evaluation for transferring students will be completed during the first semester of enrollment.

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 transferable 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.
- 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 <u>and</u> 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 degree at UHCL, the last 30 semester hours must be completed in residence. Unless prohibited by one or more of the general regulations above, the dean of the college in which students major will make final decisions concerning the application of transfer credit to degree programs.

DEVELOPMENTAL OR REMEDIAL COURSEWORK

Developmental or remedial transfer coursework is non-transferable 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 CONCURRENT ENROLLMENT COURSEWORK

High school students 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.

However, this type of credit will be evaluated for transfer equivalency purposes once official college transcripts are received. After admission, students who have earned college credit should send those documents directly to the Office of Admissions for application of course credit. (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. However, if transfer courses that fulfill specific UHCL admission and program requirements are repeated, only the final graded attempted will be used for that purpose. Remedial or developmental coursework will not be used to determine admissibility or to fulfill UHCL degree requirements.

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 of 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.

PROCEDURE TO APPLY FOR ENGLISH PROFICIENCY WAIVER

An English proficiency exemption may apply, if at least one of the following requirements is met. Applicants who:

- Have earned high school diplomas from U.S. high schools or have conferred degrees (associate, baccalaureate or higher) from regionally accredited U.S. institutions of higher education. Please note: Applied Science degrees cannot be used to waive the English proficiency requirement.
- Were 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, TAAS,
 TAKS, STARR or Stanford Achievement Tests (for deaf students only). Specific exemption
 information can be obtained by contacting the Office of Admissions or 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.
- Have 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 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 have conferred bachelor's or higher degrees from an English-speaking country, may request consideration for an English proficiency waiver. Those requesting a waiver must submit a petition and supporting documentation to the Office of Admissions or the Office of International Admissions and Programs at least 30 days prior to the intended term of enrollment. Appropriate action will be taken only when full documentation is provided.

ENCUMBRANCE HOLDS OR SERVICE INDICATORS

Encumbrance 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 encumbrance 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.

Encumbrance 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 (domestic students) or the Office of International Admissions and Programs (international students) 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 REQUIREMENTS

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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Freshmen applicants, who do not enroll, may update their admissions application for one semester only. 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.

IMPORTANT INFORMATION

Students applying to UHCL based on high school, GED or home-school status must meet Texas Uniform Admissions Requirements (p. 34); and in order to register and enroll for classes, they must also satisfy the state's TSI Requirements.

Applications will be reviewed based on the following criteria:

- Sixth/Seventh Semester Grades: The University will evaluate and admit applicants based on their
 high school academic records through six or seven semesters (end of junior year or beginning of the
 senior year). Final transcripts showing high school graduation are required once students have
 graduated.
- Accredited High Schools: Applicants graduating from high schools accredited by either the
 Texas Education Agency or the appropriate Regional Association of Schools and Colleges will be
 admitted, if they meet the current admission requirements.
- Non-accredited High Schools: Applicants graduating from high schools that are not accredited
 by either the Texas Education Agency or the appropriate Regional Association of Schools and
 Colleges can only be admitted by Individual Review (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. 35).

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 distinguished level of achievement under the Foundation, Recommended, or Advanced High School Program from a Texas public high school or the portion of the program that was available to them; or
- Satisfy the College Readiness Benchmarks on the SAT or ACT assessment

SAT - 1500 out of 2400 (Verbal + Math + Writing)

ACT – 18 English, 22 Reading, 22 Mathematics and 23 Science

Applicants who do not meet one of the first two requirements must prove they meet the third requirement by submitting with their application the High School Curriculum Certification.

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 completed coursework equivalent to the Texas distinguished level of achievement under the

Foundation Recommended or Advanced High School Program will receive automatic admission to UHCL. In order to be eligible for consideration under this option, an applicant must have graduated from high school no more than two years prior to the academic year for which he or she is applying for admission.

Applicants in the top 10% of their class are required to submit either SAT or ACT scores. Those who do not score at least 950 on the SAT (combined critical reading/verbal + math) or 20 on the ACT are required to participate in recommended success programs.

Assured Admission

Applicants who meet the State of Texas Uniform Admission Policy (p. 34) 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)		ACT Composite
Top 11-25 %	950	or	20
Top 26-50 %	1050	or	23

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 admission 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

TRANSFER ADMISSIONS REQUIREMENTS

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

APPLICATION FEE

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 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.

REQUIREMENTS FOR TRANSFER APPLICANTS

TRANSFER ADMISSIONS CRITERIA

Transfer students who have earned a minimum of 30 semester credit hours, 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.

Associate Degrees

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

- 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

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 semester. The intent is generally to transfer coursework to another institution (students enrolling in summer are eligible to enroll in both summer sessions). 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 second 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 (domestic students). In order to be admitted as a transient student, international applicants must follow the coenrollment requirements delineated in the Office of International Admissions and Programs chapter.

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 they must meet the appropriate transfer admission requirements.

Undergraduate transient students, who are not exempt from TSI, must sign a waiver form. This form is found on the UHCL website.

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.

TEACHER CERTIFICATION

Students can complete a teacher certification program with or without earning a graduate degree. 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.

BACHELOR OF APPLIED SCIENCE

BACHELOR OF APPLIED SCIENCE DEGREE (BAS)- TECHNICAL

UHCL offers the Bachelor of Applied Science in Interdisciplinary Studies (BAS). The BAS degree has five tracks (p. 38), one in the School of Business, three in the School of Education and one in the School of Science and Computer Engineering. Each school has its own specific requirements.

SCHOOL OF BUSINESS

Applicants can be considered for the Bachelor of Applied Science (BAS) degree in the School 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

Students can apply to the following track:

BAS - Healthcare Services

SCHOOL OF EDUCATION

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

- Earned an Associate of Applied Science degree in an Early Childhood program, or a minimum of 15 semester credit hours in an Early Childhood discipline, and
- 2. Are eligible to return to the last school attended

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

SCIENCE AND COMPUTER ENGINEERING

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

- 1. Earned an Associate of Applied Science degree in Information Technology or a related field, or have a minimum of 15 semester credit hours in an IT or related discipline, and
- 2. Are eligible to return to the last school attended

Students can apply to the following track:

BAS – Information Technology

BACHELOR OF SCIENCE IN NURSING (RN TO BSN)

(45 Credit-Hour Program)

Beginning in fall 2014, UHCL is offering courses toward a B.S.N. for Registered Nurses. The RN to B.S.N. program is customized for those who want to earn a bachelor's degree in nursing to improve their managerial skills and advance as nurse managers.

Applicants must:

- 1. Have earned an Associate Degree in Nursing (A.D.N.) from an accredited institution
- 2. Hold a valid license to practice as an RN in Texas
- 3. Have a minimum 2.5 cumulative GPA.
- 4. Submit a resume of all relevant nursing experience

Please request your official transcripts be electronically sent to UHCL. This will ensure faster processing of your application.

Copies of your resume or portfolio and valid license to practice as an RN in Texas must be submitted online through your To-Do List in the Student Center in E-services. See uploading instructions.

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))
- 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 (domestic applicants) or the Office of International Admissions and Programs (international students), 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. * Some applicants may be asked to submit a new application, if applicable; 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 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 and mathematics score of 1070 is required; with a minimum of 500 on the critical reading and 500 on the corresponding mathematics 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.
- 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.
- TAAS-(Texas Assessment of Academic Skills): A minimum scale score of 1770 on the writing test, a TLI of 86 on the mathematics test and 89 on the reading test is required (accepted within 3 years from the date of testing).
- 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).
- STARR (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 baccalaureate degree from
 a regionally accredited US institution of higher education. (Applied Science degrees are not
 accepted).
- Previous institution exemption: Transfer students who have previously attended a 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 evaluated and a degree plan is made. The evaluation of international transfer credit is processed by the Office of Admissions once all documents are submitted (complete transcripts, syllabus/catalog and evaluation, as applicable), during the first semester of enrollment.

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.

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 credit hours 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 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 school or department at UHCL must determine whether CLEP credit will be accepted for specific upper-level coursework and applied toward student degree requirements.

INTERNATIONAL BACCAULAUREATE

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 at least 24 credit hours in appropriate subject areas to entering freshmen for successful completion of this program. The institution may grant fewer than 24 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 school.

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 because of 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.

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

For General Information, please refer to relevant sections in this catalog for information, including but not limited to: Admission Statuses, Acceptance into Degree Programs, Admission Appeals Process, Transcripts and Records Information, transferrable credit, Records Retention and Release, University Policy Regarding Discretionary Authority, General freshman admission criteria and requirements, Uniform Admissions Requirements, Texas Success Initiative-TSI, Transfer Admission Requirements, Transient Student Enrollment, ETC.

INTERNATIONAL ADMISSIONS

APPLICATION FEES

The current application fees are as follows:

International applicants	\$75.00
1	

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 must be considered through UHCL's Individual Review Process.

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

- 1. International Undergraduate Freshman Application for Admission
- 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. International Student Adviser's Report also known as Transfer Form (if currently attending an institution in the U.S.)
- Copy of a current I-94 admissions stamp and card and SEVIS I-20 record for F-1 students (pages 1 and 3) or DS2019 for J-1 students
- 7. 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*).

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:

- 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. Information obtained during the Individual Review will be used in the appeal process; however, applicants may present additional information to support their request for admission.

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

- High school attended
- First generation status
- Employment
- Special abilities
- · Individual achievement
- Leadership activities
- Other public service-related activities

TRANSFER ADMISSION REQUIREMENTS

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

- 1. International Undergraduate or Post-baccalaureate Application for Admission
- 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
- International Student Adviser's Report also known as Transfer Form (if currently attending an institution in the U.S.)
- Copy of a current I-94 admission stamp or card and SEVIS I-20 record for F-1 students (pages 1 and 3) or DS2019 for J-1 students
- 7. Copy of photo page of passport

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

TRANSFER APPLICANT INFORMATION

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

Official transcripts 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. Documents delivered in this manner 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 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. They must provide all documentation required for admission prior to registration. 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 to the Office of International Admissions and Programs. Please see main sections for Transient Student Admissions Requirements.

INTERNATIONAL CONDITIONAL ADMISSION

International students 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

Transcripts 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. Uncertified copies will not be accepted.

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 admission. Only official scores will be accepted.

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

PROCEDURE TO APPLY FOR ENGLISH PROFICIENCY WAIVER

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

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

Applicants, whose native or first languages are not English, but who a conferred bachelor's degree or higher in an English-speaking country, may request consideration for an English proficiency waiver. Those requesting a waiver must submit petitions and supporting documentation to the Office of International Admissions and Programs at least 30 days prior to the intended term of enrollment. 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 admitted by University of Houston-Clear Lake
- 2. Notify the "transfer-out" school of their intent to transfer by completing a transfer form
- 3. Submit letter of acceptance to the "transfer-out" school. The "transfer-out" school must then release the SEVIS record 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.

Students may provide coverage information by US mail, email or fax to the attention of the Office of International Admissions and Programs. Health insurance waiver requests will be accepted until the census date, which is the twelfth class day in spring and fall semesters and the fourth class date in regular summer terms. Requests for waivers or refunds after the census day will not be considered.

CHECK-IN

All international students holding F and J visas are required to meet with their international student adviser upon arrival to campus. Students must bring their passport, visa, I-94, admission stamp or card, I-20 or DS-2019 and official copies of all transcripts and other academic documents showing degree completion and final semester coursework. Students should check the Office of International Admissions and Programs' website for dates and times of New International Student Orientation.

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. A paid fee statement from the host school must be provided to the UHCL international student adviser as proof of students' enrollment status.

Undergraduate applicants who lack no more than nine semester credit hours of lower-level core curriculum or foundation courses may transfer to UHCL. These students may co-enroll at UHCL and another institution to complete the lower-level core or foundation requirements. In all cases, students must maintain full-time status and must enroll for at least three semester credit hours at UHCL. The Department of Homeland Security stipulates that no more than three semester credit hours of online courses may be counted toward full-time enrollment for F and J student visa holders per semester.

FINANCIAL AID

FINANCIAL AID PROGRAMS

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

Program

- Federal Pell Grant
- Federal Supplemental Education Opportunity Grant (FSEOG)
- Federal TEACH Grant
- Texas Public Educational Grant (TPEG)
- TEXAS Grant
- State funded Scholarships
- University Administered Scholarships
- New Hawk Scholarship
- 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 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:

- 2014-2015 Free Application for Federal Student Aid (FAFSA) available online at www.fafsa.gov.
- If the FAFSA is selected for a process called verification, the student/spouse and parent (if
 dependent) must provide the supplemental information requested by the Financial Aid Office.

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

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

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

AWARDING OF AID

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

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

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

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

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).

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

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

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

University of Houston-Clear Lake

Office of Student Financial Aid

Attn: Executive Director of Financial Aid

Box 5

2400 Bay Area Blvd.

Houston, TX 77058

DISBURSEMENT OF FUNDS

Financial aid disbursement occurs when grants, loans, or 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 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 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 email of their warning status. Students who fail to meet SAP the following semester will not be eligible to receive financial aid unless they complete a SAP appeal and academic plan and that appeal is approved.

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

Appeals are considered for the following reasons:

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

Each appeal is reviewed on its own merit.

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

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

Academic plan forms are available online at www.uhcl.edu/finaid under Online Forms and Services. These forms must be completed with an academic advisor. 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).

EXIT INTERVIEW

When Stafford Federal Direct loan or Perkins loan recipients complete a degree or drop below halftime, 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. Perkins exit interviews may be scheduled through Student Business Services.

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, Dollars for 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.

AUTOMATIC TRANSFER SCHOLARSHIP

Eligibility

- New, first-time degree-seeking undergraduate student
- Texas Resident or non-resident transferring from another college or university.
- 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

- \$1000 for the year (\$500 each long semester) will be awarded if the transfer GPA is 3.00-4.00
- \$800 for the year (\$400 each long semester) will be awarded if the transfer GPA is 2.75-2.99

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.

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 2014-2015 Class

Amounts

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

Renewal Eligibility

The application process will begin in September 2014. Applications will be due by January 15, 2015. Interested students should monitor the www.uhcl.edu/finaid for additional instructions. Renewals: New Hawk Scholarships can be renewed for an additional 3 years. Students must maintain a 3.0 cumulative GPA and complete 24 hours an academic year for the scholarship to be renewed.

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

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

To be certified for VA educational benefits veterans must be accepted for admission at UHCL and submit the following:

- · Certificate of Eligibility
- Candidate Plan of Study (CPS) (degree plan)
- VA form 22-1990 or 22-1995 (Application for VA Benefits or Request of Change of Degree/Place of Training)
- DD214, Member 4 Copy
- Copy of Military Transcripts

Veterans must notify the Office of Veteran Services of any change in course load throughout each semester.

Rate of Pursuit:

Undergraduate

TERM	FULL TIME	¾ TIME	½ TIME
Fall and Spring Semester	12 hours	9 hours	6 hours
8 or 9 week summer session	6 hours	5 hours	3-4 hours
4 or 5 week summer session	4 hours	3 hours	1 hour
BAH Totals:	(100%)	(80%)	(0%)

SATISFACTORY ACADEMIC PROGRESS FOR VA BENEFITS

Satisfactory academic progress for veterans receiving VA educational benefits is defined by VA. 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.

HAZLEWOOD ACT

The Hazlewood Act passed by the Texas legislature provides for a waiver of tuition and certain fees for Texas veterans. A veteran may qualify for benefits under the Hazlewood Act if he or she:

- Was a Texas resident at the time of entry into the armed forces of the United States.
- Served at least 181 consecutive days of active military duty (calculated as the sum of items in 12(c) and 12(d) on Member 4 copy of the DD214) not including training days.
- Received an honorable discharge, a general discharge under honorable conditions, or an honorable release from active duty.
- Has resided in Texas for at least 12 months or otherwise meets the state requirements for being
 considered a resident of Texas at the time of enrollment at UHCL.

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- Has attempted fewer than 150 credit hours of college courses since fall 1995 using the Hazlewood exemption.
- Is not in default on any educational loans made or guaranteed by the State of Texas.
- Completes a required statewide application for Hazlewood exemption from Texas Higher Education Coordinating Board before the census date of each semester.

Hazlewood benefits are not transferred from one state university to another. Veterans must reapply and provide UHCL with all necessary documents, including a completed Hazlewood Application (available at www.uhcl.edu/finaid under Veteran Affairs), a DD-214 (Honorable discharge, Home of Record, and six months of service must appear on DD-214) and a letter from VA stating all VA Benefits have been exhausted (unless the veteran has been out of the military for more than 10 years).

The Legacy Act allow veterans eligible for the Hazlewood Act to transfer unused Hazlewood hours to an eligible child. Eligible children are the biological child, stepchild, or adoptive child of a veteran that are:

- Claimed on the veteran's federal income tax return (Alternatively, the veteran can be listed as a
 parent on the student's birth certificate.)
- A resident of Texas
- Making satisfactory progress toward degree completion
- 25 years of age or younger, unless the child provides documentation from a physician indicating he
 or she suffered from a severe illness or other debilitating condition which prevented the child from
 using the exemption before the age of 25.

Students interested in using this benefit should contact the Office of Veteran Services for application instructions.

State VA programs change frequently. Please contact the Office of Veteran Services for any program updates.

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.

TUITION AND FEES

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

E-MAIL AS OFFICIAL COMMUNICATION

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

- 1098T
- Set Aside

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

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

DEFINITIONS AND REGULATIONS

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

FIXED TUITION PLAN

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

TUITION

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

- Residents of Texas will be charged tuition at the rate of \$50 per semester credit hour for students.
- Non-residents of Texas and foreign students will be charged tuition at the rate of \$412 per semester credit hour for students.

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

TUITION RESIDENCE REGULATIONS AND APPEALS

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

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

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

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

GENERAL RESIDENCY REQUIREMENTS

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

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

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

FEES

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 1.15% and will apply to payments that are related to student tuition and fees only.

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.

ORIENTATION FEE

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

TUITION DESIGNATED FEE

The Tuition Designated Fee is required of all students, graduate or undergraduate, resident or nonresident, enrolling in higher education institutions. As authorized by state law House Bill 3015 in the 78th Legislature in 2003, the university governing boards have been authorized the flexibility to "charge any student an amount designated as tuition that the governing board considers necessary for the effective operation of the institution."

PARKING FEE

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

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

Lost or stolen parking permits must be reported to the University Police immediately so that a replacement permit may be issued. Lost or stolen permits are replaced at a cost of \$20.00.

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

The School of Science and Computer 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 School 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	3
Differential Designated Tuition (SCE) - Undergraduate	5
Extended Access Fee	7/hr - 63/max
Duplicate Fee Statement, each	3
Duplicate Diploma	25
Excessive Undergraduate Hours - 3 Peat (\$390 per 3 hour course)	130/hr
Field trip, each, when required for any given course; variable amount sufficient to defray the cost of the trip.	Variable
Former Student File Reactivation Application (not enrolled for at least one year)	45
Graduation Application (includes diploma but not cap/gown)	65
Information Resource Fee	25/hr- 300/max
International Education Fee	2
International Student Insurance (annual)	1491
International Student Application/Evaluation	75
International Student Records Processing (per semester)	65
Internship	30 - 72

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Laboratory, per course	Variable
Late Payment	50
Late Registration	50
Matriculation (for withdrawal prior to first class day)	15
New Student Orientation	30/1-time
Parking (annual)	85
Parking (per long term)	50
Parking (summer)	35
Returned check charge, per check	20
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 \$210)	35/hr
Tuition Recovery	130
Undergraduate Studies Application	45
Examination Fees	Variable

VARIABLE TUITION AND FEE SCHEDULE FOR UNDERGRADUATE STUDENTS

CR	RES	NR/F	TUI DES	TUI DES	ST	INFO	EXT	INT	ST	ACDM	R-UG	NR/F UG
HR	UG	UG	UG	NR/F UG	SVC	RES	ACC	EDU	CENT	RCRD	TOTAL	TOTAL
1	50	412	136	206	35	25	7	2	30	28	313	745
2	100	824	272	412	70	50	14	2	30	28	566	1430
3	150	1236	408	618	105	75	21	2	30	28	819	2115
4	200	1648	544	824	140	100	28	2	30	28	1072	2800
5	250	2060	680	1030	175	125	35	2	30	28	1325	3485
6	300	2472	816	1236	210	150	42	2	30	28	1578	4170
7	350	2884	952	1442	210	175	49	2	30	28	1796	4820
8	400	3296	1088	1648	210	200	56	2	30	28	2014	5470
9	450	3708	1224	1854	210	225	63	2	30	28	2232	6120
10	500	4120	1360	2060	210	250	63	2	30	28	2443	6763
11	550	4532	1496	2266	210	275	63	2	30	28	2654	7406
12	600	4944	1632	2472	210	300	63	2	30	28	2865	8049
13	650	5356	1768	2678	210	300	63	2	30	28	3051	8667
14	700	5768	1904	2884	210	300	63	2	30	28	3237	9285
15	750	6180	2040	3090	210	300	63	2	30	28	3423	9903
16	800	6592	2176	3296	210	300	63	2	30	28	3609	10521
17	850	7004	2312	3502	210	300	63	2	30	28	3795	11139
18	900	7416	2448	3708	210	300	63	2	30	28	3981	11757
19	950	7828	2584	3914	210	300	63	2	30	28	4167	12375
20	1000	8240	2720	4120	210	300	63	2	30	28	4353	12993
21	1050	8652	2856	4326	210	300	63	2	30	28	4539	13611
22	1100	9064	2992	4532	210	300	63	2	30	28	4725	14229
23	1150	9476	3128	4738	210	300	63	2	30	28	4911	14847
24	1200	9888	3264	4944	210	300	63	2	30	28	5097	15465
25	1250	10300	3400	5150	210	300	63	2	30	28	5283	16083
26	1300	10712	3536	5356	210	300	63	2	30	28	5469	16701
27	1350	11124	3672	5562	210	300	63	2	30	28	5655	17319
28	1400	11536	3808	5768	210	300	63	2	30	28	5841	17937
29	1450	11948	3944	5974	210	300	63	2	30	28	6027	18555
30	1500	12360	4080	6180	210	300	63	2	30	28	6213	19173

^{*}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

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

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.

In order to obtain a refund of parking fees, the parking permit must be returned to Student Business Services at the time of withdrawal. If the Parking Fee has been paid and the permit has not been issued, the fee statement must be returned to Student Business Services at the time of withdrawal. Returning the parking permit and fee statement does not guarantee a refund will be granted. Refunds on parking are determined by the Police Department.

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 redeposited.

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

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 located within each school: 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 School Advisers.

School academic advisers are located within the individual schools (Human Sciences and Humanities, Science and Computer Engineering, School of Business and School of 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. What students can expect from advisers:
- 2. Evaluation of students transcripts
- 3. Adequate office hours and availability throughout the semester
- 4. Assistance with registration course selections
- 5. Accurate information regarding degree requirements and degree plans
- Assistance with evaluation of syllabi/course descriptions to determine acceptability of transfer coursework
- 7. Accurate audit of a CPS, upon request, to determine the students' progress toward graduation
- 8. Assistance identifying solutions to academic difficulties
- 9. Helpful referral to other university resources for additional assistance

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- 10. Appropriate confidentiality
- 11. 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 school 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
School of Business	Bayou Building	B2111	281-283- 3110	busadvoff@uhcl.edu
School of Education	Bayou Building	B1231	281-283- 3600	education@uhcl.edu
School of Human Science and Humanities	Bayou Building	B1539	281-283- 3333	hshadvising@uhcl.edu
School of Science and Computer Engineering	Bayou Building	B3611	281-283- 3711	sceadvising@uhcl.edu
Distance and Off- Campus Education	Bayou Building	B2508	281-283- 3031	dlisted@uhcl.edu
University Academic Advising Center	Bayou Building	B1408	281-283- 3087	advisingcenter@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 school 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 school 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 school advisor 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 advisor 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 Academic Records. 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.

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 Academic Records in order to correct any discrepancies. Only the Office of Academic Records 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 Academic Records 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 Academic Records 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.

AUDITING COURSES

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

an audit basis. Records of individuals who have audited courses will not be maintained by the university.

Each school'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.

Human Sciences and Humanities	School of Business	
281-283-3333	281-283-3110	
hshadvising@uhcl.edu	busadvoff@uhcl.edu	
Science and Computer Engineering	School of Education	
281-283-3711	281-283-3600	
sceadvising@uhcl.edu	education@uhcl.edu	

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.

ACADEMIC RECORD SERVICES

Official student records reside and are maintained in the Office of Academic Records. 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 the office of the associate dean in the school from which they are earning their degree. Students wishing to change from degree-seeking to non-degree-seeking status should contact the Office of Academic Records 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 Academic Records. 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.

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 Academic Records. 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 Academic Records, 2700 Bay Area Boulevard, Houston, Texas 77058-1098 or faxed to 281-2832530. 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 Enrollment Verify 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.

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 postsecondary 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 postsecondary 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 postsecondary institution may disclose PII from the education records without obtaining prior written consent of the student-

- To other school officials, including faculty members, within that school whom the school has
 determined to have legitimate educational interests. This includes contractors, consultants,
 volunteers, or other parties to whom the school has outsourced institutional services or functions,
 provided that the conditions listed in §99.31(a)(1)(i)(B)(1) (a)(1)(i)(B)(2) are met. (§99.31(a)(1))
- To officials of another school where the student seeks or intends to enroll, or where the student is
 already enrolled if the disclosure is for purposes related to the student's enrollment or transfer,
 subject to the requirements of \$99.34. (\$99.31(a)(2))
- To authorized representatives of the U. S. Comptroller General, the U. S. Attorney General, the U.S. Secretary of Education, or State and local educational authorities, such as a State postsecondary 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

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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 Academic Records at (281)283-2525 or via email at 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 University of Houston-Clear Lake as follows (within guidelines of the Family Educational Rights and Privacy Act of 1974):

- Student name
- Address
- Telephone number

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

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

The law provides students with the right to inspect and review information contained in their education records, to challenge the contents of their education records, to have a hearing if the outcome of the challenge is unsatisfactory and to submit explanatory statements for inclusion in their files if they feel the decisions of the hearing panel to be unacceptable. To review records, a student must make a request in writing to the Office of Academic Records. 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.

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 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 AND COUNSELING 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:

- 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 parttime 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, using job lines or co-op, 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 are designed to assist students in improving personal, academic and professional skills related to academic success. The professional staff helps students in meeting these needs by providing short-term individual counseling sessions, seminars, workshops and small group experiences.

Most services, including individual and group counseling, are free of charge and strictly confidential. The following services and resources are available to UHCL students:

- Individual and group counseling
- Academic skills training
- Vocational testing and counseling

DEAN OF STUDENTS

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

assist faculty, staff and parents in any way possible. Their primary purpose is to provide assistance to students and the university community in the following areas:

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

STUDENT ASSISTANCE CENTER

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

STUDENT ADVOCACY

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

STUDENT TRAVEL POLICY

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

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

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

DISABILITY SERVICES

The goal of Disability Services is to provide full participation and a fully integrated university experience to all members of the campus community. Services include academic accommodations, alternative testing, technological and adaptive resources, peer mentoring, resource material, scholarships and advocacy. The staff of Disability Services facilitates referrals to other offices, which provide students with counseling, advising, financial assistance and tutoring, as needed. To be eligible for services, a student must have recent comprehensive documentation of disability. Prior to the beginning of the

semester, students should contact the Disability Office to ensure the availability of timely and appropriate accommodations. 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.
- Shadow Day This program allows students to visit a work site and "shadow" an employee. The student observes and assists in the work day.

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 AND SOCIAL JUSTICE TRAINING

Intercultural Student Services offers two diversity training workshops: **Cultural Competency for Leaders** and **Social Justice**. All workshops are open to UHCL faculty/staff and students.

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

By examining 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 equip 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. 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, or visit 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 70 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.

SPECIAL EVENTS PROGRAM

The Special Events Program provides cultural arts and special events, to enhance the artistic environment of the university and the region it serves. Activities include theater, music and dance productions, visual arts exhibitions, distinguished lecturers, Welcome Week activities and the Chili Cook-Off.

FITNESS CENTER

The Fitness Zone is available to members of the UHCL community. The 3,000 square foot fitness center is located in the Student Services-Classroom Building. The Fitness Zone offers a wide variety of aerobic machines and free weight equipment, and also sponsors athletic activities like tournaments and physical education programs.

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 Alpha Chi, Phi Kappa Phi and Omicron Delta Kappa honor students from all academic disciplines.

UHCL Honor Societies are:

Alpha Chi	All Disciplines
Alpha Kappa Delta	Sociology
Alpha Iota (local)	Legal Studies
Alpha Phi Sigma	Criminology
Beta Alpha Psi	Accounting
Beta Gamma Sigma	All Business Disciplines
Financial Management Honor Society	Finance
Kappa Delta Pi	Education
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

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; 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, Disability Services, Career and Counseling Services, academic departments, students, faculty and staff) in an effort to maintain a strong consortium of resources aimed at increasing student success, retention and persistence. The Center is open and free of charge to all UHCL students. SSCB 3102, 281-283-2643.

WRITING CENTER

The Writing Center is an instructional facility where students, faculty and staff can work with trained tutors on their writing projects. Tutors collaborate with writers as they analyze assignments and audiences, revise documents by clarifying ideas and structure, and learn stylistic and editing strategies. The Writing Center offers face-to-face services at the UHCL and Pearland locations, as well as online tutoring for currently registered students. For more information, contact the Writing Center at 281-283-2910, visit www.uhcl.edu/writingcenter, email writingcenter@uhcl.edu, or drop by SSCB 2105.

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 Academic Records. 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 41 undergraduate majors.

UNDERGRADUATE DEGREES CONFERRED

- Bachelor of Applied Science (BAS)
- Bachelor of Arts (BA)
- Bachelor of Fine Arts (BFA)
- Bachelor of Science (BS)
- Bachelor of Science in Nursing (BSN)
- Bachelor of Social Work (BSW)

UNDERGRADUATE PLANS OFFERED

School of Business

- Accounting (BS) (p. 117)
- Environmental Management (BS) (p. 123)
- Finance (BS) (p. 119)
- General Business (BS) (p. 120)

- Healthcare Administration (BS) (p. 120)
- Healthcare Services (BAS) (p. 120)
- Legal Studies (BS) (p. 124)
- Management (BS) (p. 121)
- Management Information Systems (BS) (p. 122)
- Marketing (BS) (p. 122)
- Professional Accounting (BS) (p. 118)

School of Education

- Interdisciplinary Studies (BS)
 - EC-6 Bilingual Generalist with Bilingual Supplemental Certification
 - EC-6 Generalist Certification (Early Childhood Concentration)
 - EC-6 Generalist Certification (Reading Concentration)
 - EC-6 Generalist with EC-12 Special Education Certification (All Level)
 - EC-6 Generalist with ESL Supplemental Certification
 - 4-8 Generalist Certification
 - 4-8 Generalist with ESL Supplemental Certification
 - 4-8 Science Certification
 - 4-8 Social Studies Certification
- Early Childhood Education (BAS)
 - Early Childhood Education Educator of Young Children Track
 - Young Children with Disabilities Track
 - Early Childhood Program Leadership Track

School of Human Sciences and Humanities

- Anthropology (BS)
- Art and Design (BFA)
- Behavioral Sciences (BS)
- Communication (BA)
- Criminology (BS)
- Fitness and Human Performance (BS)
- Geography (BS)
- History (BA)
- Humanities (BA)
- Literature (BA)
- Nursing (BSN)
- Psychology (BS)
- Public Service Leadership (BS)
- Social Work (BSW)
- Sociology (BS)
- Women's Studies (BA)

School of Science and Computer Engineering

- Biological Sciences (BA, BS) (p. 256)
- Chemistry (BA, BS) (p. 263)
- Computer Science (BS) (p. 248)
- Computer Information Systems (BS) (p. 251)
- Computer Systems Engineering (BS) (p. 254)
- Environmental Science (BS) (p. 267)
- Information Technology (BAS) (p. 249)
- Mathematical Sciences (BA, BS) (p. 252)
- Physics (BS) (p. 269)

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

Term	Full-Time	¾ Time	½ Time
Fall and Spring Semesters	12 hours	9 hours	6 hours
Nine-Week Summer Sessions	6 hours	5 hours	3-4 hours
Five-Week Summer Sessions	4 hours	3 hours	1 hour

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

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

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

- After the materials are received, your request will be evaluated by the Office of Academic Records
 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 Academic Records 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.
- Withdrawal appeals should be submitted to the Office of Academic Records prior to the close of the following long semester. Appeals submitted after one long semester will not be considered.

IMPORTANT NOTES:

- International students, students with a disability, and students who are receiving financial aid,
 veteran's and/or other benefits and who are considering withdrawing from the university must meet
 with the appropriate official (e.g., international student adviser, staff from Disability Services,
 financial aid counselor, or veteran's services) before withdrawing since there may be legal,
 certification, and/or repayment penalties associated with doing so.
- Medical withdrawal typically results in withdrawal from all classes. Students who are considering
 the medical withdrawal process and wish to drop some, but not all, of their classes for a term should
 instead contact the their academic associate dean's office for information about administrative
 drops.
- Student Loans: Students who have borrowed from the Perkins or Direct Loan programs are federally required to schedule an Exit Counseling session. Contact the 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.

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) or to courses for which the students receives an administrative withdrawal noted with a grade of "WX" and does not apply if the student withdraws from the term or session.

Certain exceptions may be made to the limit if the student can show good cause for dropping more than 6 dropped 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 Academic Records 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 UHCL. 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 Academic Records.

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, Texasresident 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 school 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. Undergraduate and 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. Specific instructions are provided below for each type of academic appeal. 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 school 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

Grade
A
A-
B+
В
В-
C+
С
C-
D+
D
D-
F
Student Initiated Drop, No Evaluation
Withdrawal or Administrative Drop, No Evaluation
No Grade Submitted, Contact Instructor
Incomplete-No Credit, unless work is not completed on time, then an F is given
Satisfactory
Unsatisfactory
Credit
No Credit
In Progress-No Credit

^{*}These grades are not included in computing the grade point average

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

⁺CR/NC awarded only for CLEP, master's option and TexES course work

⁺⁺IP awarded for some undergraduate internships

then dividing the sum of all grade points obtained by the total number of hours attempted. Visit www.uhcl.edu/records for step by step instructions on how to calculate a GPA.

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 the 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 Academic Records within one year after the original grade is posted. Grade changes resulting from the completion of In Progress ("IP") or Incomplete ("I") work may only be initiated by the instructor of record or the associate dean. Academic action that results from a grade change will be taken during the semester of the grade change. The changed grade will be the final grade used to compute the GPA.

REPEATED COURSES

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

GRADE REPORTS

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

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 school 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 school 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.

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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 for all incoming UHCL freshman and sophomore students with less than 45 completed cumulative credit hours.

New students with less than 45 completed cumulative credit hours will be assigned an University Academic Advising Center adviser during their first semester of enrollment. Students will be required to meet with their adviser at least three times per semester until they have completed 45 semester credits. Once 45 cumulative credit hours have been completed, students will transition to their specific academic school for future advising. Students advised at the Center are subject to an advising hold that prevents them from registering for the next semester until course selections are discussed with their assigned adviser.

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 during their first semester of attendance at UHCL 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 school 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 school to another must submit a Request for Academic Record Change (ARC) form along with a petition for reinstatement to the associate dean of the school 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.

Petitions for reinstatement must be submitted by the following dates:

Summer Semester	April 1
Fall Semester	July 1
Spring Semester	November 1

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.

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 schools, 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.

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

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

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

Section II: Violations

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

1. Acquiring information:

- a. Acquiring information for any assigned work or examination from any source not authorized by the professor.
- b. Working with another person or persons on any assignment or examination when not specifically permitted by the instructor.
- c. Observing the work of other students during any examination.
- d. Using, buying, selling, stealing, soliciting, copying or possessing, in whole or part, the contents of an un-administered 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:

- 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.
- 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 AND BACHELOR OF SCIENCE 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 school**. Students should refer to the department or school section of this catalog for complete requirements and total number of hours prescribed for the specific major.

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

- 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 school**. Students should refer to the department or school 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:

- 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 school 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:

- 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).
- 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 2.00 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.

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UHCL	Course Title	TCCNS	
Communications (6 hours)			
WRIT 1301	English Composition I	ENGL 1301	
WRIT 1302	English Composition II	ENGL 1302	
Mathematics (3 hours)			
MATH 1314	College Algebra	MATH 1314	
MATH 1324	Finite Math	MATH 1324	
MATH 1325	Business Calculus	MATH 1325	
MATH 1332	Math for Liberal Arts	MATH 1332	
MATH 1350	Fundamentals of Mathematics	MATH 1350	
MATH 2412	Pre-calculus	MATH 2412	
MATH 2413	Calculus I	MATH 2413	
Life and Physical Scien	ces (6 hours)	<u> </u>	
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	
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
Language Philosop	hy and Culture (3 hours)	
HUMN 1301	Humanities	HUMA 1301
LITR 2341	Literature and Experience	ENGL 2341
PHIL 1301	Into to Philosophy	PHIL 1301
WMST 1301	Gender Matters	
Creative Arts (3 H	ours)	
ARTS 1303	World Art Survey I	ARTS 1303
ARTS 1304	World Art Survey II	ARTS 1304
U.S. History (6 ho	urs)	<u> </u>
HIST 1301	US History I	HIST 1301
HIST 1302	US History II	HIST 1302
Government/ Polit	rical Science (6 hours)	
POLS 2305	Federal Government	GOVT 2305
POLS 2306	Texas Government	GOVT 2306
Social Behavioral S	Science (3 hours)	
ANTH 2346	General Anthropology	ANTH 2346
ECON 2301	Principles of Macroeconomics	ECON 2301
ECON 2302	Principles of Microeconomics	ECON 2302
CRIM 1301	Intro to Criminal Justice	CRIJ 1301
GEOG 1303	World Regional Geography	GEOG 1303
PSYC 2301	Intro to Psychology	PSYC 2301
SOCI 1301	Intro to Sociology	SOCI 1301
SWRK 2361	Intro to Social Work	SWRK 2361
Component Area (Option (6 hours)	1
ASTR 1103	Lab for Stars and Galaxies	ASTR 1103
ASTR 1104	Lab for Solar Systems	ASTR 1104
	1	

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BIOL 1106	Lab for Biology I	BIOL 1106
BIOL 1107	Lab for Biology II	BIOL 1107
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
W 41 N 101	T 1 (NT T 1 1 1 1 1 1 T)C	1.01

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 corequisite 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.

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 advanced.
- 3. At least six of the nine advanced semester hours must be taken in residence.
- 4. Students must include the minor in the degree plan no later than achievement of senior status.
- 5. 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 school 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 school section effective with the 2015-2016 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 school. 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 school.
- Students must satisfy the school 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 school 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
 school.

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

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

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

APPLYING FOR GRADUATION

Degrees are not awarded automatically upon completion of degree requirements. To be considered a candidate for graduation, the student must submit an online application for graduation via their student E-Services account. Degree candidates must officially apply for graduation within the first three weeks of the semester in which they plan to graduate, but no later than the date specified in the Academic Calendar. Please refer to the Academic Calendar for online graduation application dates and deadlines to avoid additional late fee charges. To be eligible to apply for graduation, students must have completed or be enrolled in the final courses required to meet graduation requirements. A nonrefundable fee is required of all students who intend to complete their degree regardless if they choose to participate in the commencement ceremony. If students do not successfully complete their degree requirements at the close of the semester for which they have applied, they will be required to reapply and pay another fee during the subsequent semester in which they intend to graduate. As there is no commencement ceremony in the summer, students who graduate in August will be eligible to participate in the December ceremony. Diplomas are mailed after the final approval is received from the graduating student's school. Diplomas are mailed to students 10 to 12 weeks after the end of the semester. Diplomas are mailed to the mailing address on record at the time of graduation. Students who graduate from UHCL must complete a new application and pay the applicable application fee in order to continue taking classes.

LATIN HONORS

Undergraduate students who have applied to graduate and have completed their degree requirements with exceptionally high scholastic averages will be eligible for Latin honors. To be considered as a candidate for Latin honors a student must have earned a minimum GPA of 3.5 the semester prior to applying to graduate and be within the top ten percent of their graduating class and in their school of study. Those who are in the top two percent of each school'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 oncampus 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. 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. 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.

REGISTRATION

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

FINANCIAL AID AND SCHOLARSHIPS

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

STUDENT SERVICES

The DE office has developed unique advising procedures to best serve the needs of its students. Advisors 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 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

UH Sugar Land Campus

14000 University Blvd.

Sugar Land, TX 77479

Programs offered:

Bachelor of Science in Psychology

SCHOOL OF BUSINESS

The mission of the School 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	http://bus.uhcl.edu	

The graduate and undergraduate accounting and business administration degrees in the School 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

GENERAL DEGREE REQUIREMENTS FOR BUSINESS DEGREES

A minimum of 60 upper-level hours and a total of 120 hours are required for the baccalaureate degree. A minimum GPA of 2.0 or higher is needed 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 ¹	6 hours
Business Law	3 hours
Economic Principles (Microeconomic Principles recommended) ²	3 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 (College Algebra, Finite Math, Business Calculus) ³	9 hours
Life & Physical Sciences ⁴	6 hours
Social/Behavioral Science (Macroeconomic Principles recommended) ²	3 hours
Speech	3 hours
PSYC 1100-Learning Frameworks or Transfer Seminar	1 hour
Two 1-hour Life and Physical Sciences Labs	2 hours
Total	60 hours

¹Environmental 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.

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

³Legal 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.

⁴Environmental Management majors are required to take six hours of Chemistry.

Transfer students are encouraged to select courses that are required and/or recommended for their respective majors. If a student completes a component of the core at one Texas institution, that block of courses will be substituted for UHCL's same core component (s). Additional Program Foundation courses may be required.

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

UPPER-LEVEL REQUIREMENTS FOR BUSINESS PLANS (MAJORS)

The plans 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.

Core Requirements comprise 27 to 30 hours; Plan Requirements vary from 15 to 27 hours, depending upon the specific business plan. BUS and General Electives are added to each CPS 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 six hours of grades in the range of "D+," "D" or "D-" are permitted in upper-level Business Core Requirements. All courses in Plan Requirements must be completed with a grade of "C-" or better. A minimum GPA of 2.0 or higher is needed 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:

DSCI 3321	Statistics I
DSCI 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
MKTG 3301	Principles of Marketing
WRIT 3312	Written Communications in Business

PLAN DEGREE REQUIREMENTS FOR BUSINESS MAJORS

ACCOUNTING B.S.

Plan 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.

Plan requirements for the Bachelor of Science degree in Accounting consist of these 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 4352	Advanced Financial Accounting
ACCT 3333	Cost Accounting

Elective Requirements (12 hours)

3-hour BUS Elective 3-hour General Elective 3-hour ACCT Elective 3 hours of Accounting

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

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

Plan 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 (i.e., after they have completed their first 36 hours of the integrated plan). In addition, students in the integrated plan 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 plan will revert to the 120hour B.S. in accounting degree plan 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 4436 Ethics for Accountants has been approved by TSBPA and satisfies the ethic course requirement.

The Candidate Plan of Study for the integrated B.S. and M.S. in Professional Accounting will include 117 hours of undergraduate and 33 hours of graduate course work. Plan requirements consist of the following 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
	3-hour Undergraduate BUS Elective
	3-hour Undergraduate General Elective
ACCT 3333	Cost Accounting
	3-hour ACCT Elective

Graduate Courses:

ACCT 5224

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 6 hours of BUS Electives 3-hour FINC elective

Course work at the 3000- or 4000-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. SUB-PLAN IN MANAGEMENT INFORMATION SYSTEMS

Sub-plan Requirements

Students in the integrated Professional Accounting Plan may complete a sub-plan (concentration) in Management Information Systems by completing the following combination of undergraduate and graduate course work. Plan 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
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ACCT 4346 Business Ethics for Accountants

Introduction to Business Applications Programming ISAM 3304

3-hour Undergraduate General Elective

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:

3-hour FINC elective 9 hours of ACCT Electives 6 hours of BUS Electives

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.

Plan Requirements

The plan in Finance leads to the Bachelor of Science degree.

Plan requirements consist of these courses:

Students may take ACCT 3341 or ACCT 3332.

Students may take ACCT 3342 or FINC 4341.

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
All major requirement	s must be grades of C- or higher.

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 4361	Treasury Management
FINC 4391	Selected Topics in Finance

General Elective Requirements

For the General Elective requirement, students may take any three 3000 or 4000-level courses offered by the Schools of Business, Human Sciences & Humanities, Science & Computer Engineering or Education.

GENERAL BUSINESS B.S.

Plan Requirements

The plan in General Business leads to the Bachelor of Science degree. Plan requirements consist of 18 hours in business administration course work with no more than six 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.

HEALTHCARE ADMINISTRATION B.S.

Plan Requirements

The plan in Healthcare Administration leads to the Bachelor of Science degree.

Plan 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 4351	Financial Dimensions of Healthcare Administration II
	3-hour HADM Elective
HADM 4332	Legal Dimensions of Healthcare Administration
HADM 4341	HŘ in Healthcare Administration
	9 hours of General Electives

HEALTHCARE SERVICES B.A.S.

Plan 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 at least 12 hours of allied health course credits or those holding an associate 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. However, students enrolled in the B.A.S. will be required to complete the core curriculum as well as the professional core at UHCL in order to complete their B.A.S. degree. Five different tracks are available to students pursuing a B.A.S. degree. Healthcare Services is one of those tracks.

Students possessing A.A.S. degrees have the technical skills required for their health care professions, but their courses do not require them to complete the State of Texas mandated 42-hour undergraduate core curriculum (general education) for a bachelor's degree. This track will be offered at UHCL's Healthcare Administration Department, which is physically based in the Texas Medical Center. This track allows students with allied health course credit or an A.A.S. in the allied health professions to complete a portion of the undergraduate core at the upper level. The curriculum saves the students valuable time and money, and prepares them to advance into an administrative position within their healthcare facilities.

Plan Requirements Consist of these Courses (27 hours):

1	
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 4341	HR in Healthcare Administration
HADM 4351	Financial Dimensions of Healthcare Administration II
HADM 4332	Legal Dimensions of Healthcare Administration

Prescribed Elective Courses (9 hours):

PSYC 4370 Behavioral Statistics

MGMT 4354 Organizational Behavior Theory and Application

MKTG 3301 Principles of Marketing

General Elective Requirements

Any three 3000 or 4000-level course offered by the Schools of Business, Human Sciences & Humanities, Science & Computer Engineering or Education

MANAGEMENT B.S.

Plan Requirements

The plan in Management leads to the Bachelor of Science degree. 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 3000 or 4000 level, or select one of the concentrations in the next section. Twelve-hour concentrations must be supplemented with an additional three-hour management elective.

General Elective Requirements

In addition, the plan requires any four (4) 3000 or 4000 level courses offered by the Schools of Business, Human Sciences & Humanities, Science & Computer Engineering or Education.

Specialization Tracks:

Entrepreneurship Track (Pearland Campus):

Plan requirements are 15 hours from the list below.

MGMT 4336 Principles of Entrepreneurship

MGMT 4337 Applied Small and Family Business Management

MKTG 4333 Marketing for Entrepreneurs MGMT 4326 Effective Negotiations MGMT 4379 Internship in Management

MGMT 4391 Selected Topics in Management

MGMT 4931: Topics to range from Family Business, New Venture Start-up, to Mergers and

Acquisitions

Leadership Track:

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

MGMT 4334 Leading Teams MGMT 4327 Leadership

Plus six (6) hours from the list below:

LEGL 4353 Dispute Resolution

MGMT 3313 Organizational Communication

MGMT 4326 Effective Negotiations MGMT 4328 Cross Cultural and International Leadership

MGMT 4332 MGMT 4341 Organizational Design and Learning Leadership in a Global Business Environment MGMT 4356

Employee Training and Organizational Development

Plus 3 hours of any MGMT 3000 or 4000 level course not already taken.

Human Resource Track:

MGMT 3331 Human Resource Management MGMT 3351 Wage and Salary Administration

MGMT 4316 Human Resource Management Information Systems

Plus three (3) hours from the list below:

LEGL 4353 Dispute Resolution

Human Resource Planning, Staffing and Selection MGMT 3341 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 3000 or 4000 level course not already taken.

Environmental Management Track:

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

Plus an additional six (6) hours from any 4000 level ENVR courses.

Plus three (3) hours of any MGMT 3000 or 4000 level course not already taken.

MANAGEMENT INFORMATION SYSTEMS B.S.

Plan 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 3332	Applications Development with Visual Basic
ISAM 4331	Introduction to Business Internet Applications Development
ISAM 4365	Analysis and Design of Information Systems
ISAM 4366	Introduction to Computer Networks Management
	3-hour ISAM Elective
	3-hour BUS Elective
ISAM 4332	Advanced Business Internet Applications Development
ISAM 4362	Advanced Business Database Application Development

MARKETING B.S.

Plan Requirements

The plan in Marketing leads to the Bachelor of Science degree.

Plan requirements consist of these courses:

MKTG 3313 Marketing Channels and Distribution MKTG 3351 Marketing Research Consumer Behavior 9 hours of MKTG Electives

In addition to the MKTG course requirements, the plan requires five (5) general electives. To satisfy this requirement, students may take any 3000 or 4000 level course offered by the Schools 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 Plans

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

Once a student is accepted as a degree candidate, a Candidate Plan of Study (CPS) will be prepared. In some degree plans, sufficient hours of electives are added to the course requirements on the CPS to meet the 60 upper-level hour requirement and/or the 120 total hour requirement.

Undergraduate Candidate Plans of Study in Environmental Management or Legal Studies must contain no more than 25 percent of their credit hours from the business fields of accounting, business, decision sciences, economics, finance, healthcare administration, information systems, management and marketing. A minimum GPA of 2.0 or higher is needed to graduate.

PLAN DEGREE REQUIREMENTS FOR ENVIRONMENTAL MANAGEMENT AND LEGAL STUDIES

ENVIRONMENTAL MANAGEMENT B.S.

The undergraduate plan in Environmental Management leads to the Bachelor of Science degree. 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 six hours of course work in chemistry before enrolling.

Plan Degree Requirements

Plan requirements consist of these courses:

CHEM 3333	Environmental Chemistry
DSCI 3321	Statistics I
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	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 Con
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mmunication MGMT 3331 Human Resource Management MGMT 4326 Effective Negotiations

MGMT 4327 MGMT 4353 Leadership

International Business Management

MGMT 4354 Organizational Behavior Theory and Application MGMT 4357 Government Budget Planning and Analysis

One of the following courses (3 hours):

	8
BIOL 3311	Marine Biology
BIOL 3333	Environmental Biology
CHEM 4355	Environmental Sampling and Monitoring
GEOG 4321	Fundamentals of Geographic Information Systems
GEOL 3333	Environmental Geology
GEOL 4323	Soils in the Environment
INDH 3333	Environmental Safety and Health

Other pre-approved upper-level science or safety courses

Electives (15 hours):

- 3-hour ENVR Elective
- 3-hour General Elective
- 9 hours of Non-Business Electives

For the ENVR Elective (3 hours), students may take any 3000 or 4000 level ENVR course not already taken.

The General Electives (6 hours) may be any 3000 or 4000 level courses offered by the Schools 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 plan in Legal Studies leads to the Bachelor of Science degree. 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.

Plan Degree Requirements

Plan requirements consist of these courses:

LEGL 3307	Legal Writing and Appellate Process
LEGL 3313	Introduction to Law and the American Legal System
LEGL 3321	Logic
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

Required Electives (24 hours):

One course to be selected from:

ENVR 4315 (Environmental Law), MGMT 4326 (Effective Negotiations), or any 3000 or 4000 level ACCT, FINC, ISAM, MGMT or MKTG rubrics.

One course to be selected from:

Any 3000 or 4000 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	Technical Writing

12 hours of general electives

Any 3000 or 4000 level courses offered by the Schools of Business, Human Sciences & Humanities, Science & Computer Engineering or Education.

SCHOOL OF EDUCATION

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

The SoE 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 SoE 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
School of Education (SoE)	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
Website	www.uhcl.edu/soe	
Council for the Accreditation of Educator Preparation (CAEP)	www.caepnet.org	
New Teachers Online (NTOL)	www.uhcl.edu/soe/ntol	
SoE e-mail address	education@uhcl.edu	

The SoE 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 SoE structures its courses and degree plans. This is reflected in the SoE Mission Statement quoted below. It is also the central theme reinforced in classes. The vision of the SoE is of a learner-centered community in which success for all students is paramount.

The mission of the SoE 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
- 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 SoE 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 SoE 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 School of Education (SoE) 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

In 1998, Congress reauthorized Title II of the Higher Education Act. The Act established a reporting system for the U.S. Department of Education (USDE) to collect information annually on the quality of the teacher training programs of states and institutions of higher education. Within Title II, the USDE 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 USDE 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. In Texas, the Texas Education Agency (TEA) collects all data for Title II.

The pass rates of those who completed their teacher certification at UHCL during the 2012-2013 academic year were evaluated and compared to the pass rates of the state and national groups of program completers. At UHCL, students from 2012-2013 had an overall passing rate of 99% 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 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 SOE's initial and advanced level programs in spring 2014 and found no areas for improvement.

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SBEC/TEA ACCREDITATION

University of Houston-Clear Lake (UHCL) is one of 149 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. These standards are evaluated according to UHCL students' rates of performance on the SBEC/TEA state assessments. The TEA's last announcement of UHCL's overall final pass rate on all state assessments was 100%.

The administrative functions for the certification process are conducted by the Educator Certification and Standards 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 School of Education (SoE) are required to read "The Statement on Professional Dispositions," which defines the behavioral standards the SoE 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.

FIELD EXPERIENCE COURSES

In the School of Education (SoE) 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://info.sos.state.tx.us/pls/pub/readtac\$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&ti=19&ch=247&rl=2.

The Texas Education Agency (TEA) offers Preliminary Criminal History Reviews for Educator Certification Candidates for a non-refundable fee of \$150.00. 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 or not 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://www.tea.state.tx.us/index2.aspx?id=2147486679.

CENTERS AND OFFICES

CENTER FOR PROFESSIONAL DEVELOPMENT OF TEACHERS (CPDT)

The School of Education (SoE) 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, 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 works 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 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 SoE 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 Center for the Professional Development of Teacher's 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 School of Education (SoE) 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 SoE 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 SoE 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 School of Education's (SoE'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 SoE.

OFFICE OF ACADEMIC ADVISING

This office provides information about the School of Education (SoE) 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 SoE 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 School of Education (SoE). 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. This office gives test approval to eligible students and keeps a record of students' exam scores. It houses and distributes literature pertaining to state assessments, covering 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 University of Houston-Clear Lake (UHCL) students and alumni to take practice tests to help prepare them for their actual exam(s). The School of Education (SoE) State Assessments Coordinator networks with UHCL faculty and staff, as well as with the Educational Testing Service (ETS) and the TEA, 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 School of Education (SoE) 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) School of Education (SoE) 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 an 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 School of Education (SoE) 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. Teacher Education Program (TEP) Admission Must be formally admitted by letter to the SoE TEP prior to enrollment in the ACP See an SoE Academic Advisor 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 SoE Certification Office in B1231.
- 4. Admission to TEP is required before accepting a position with a school district.
- Students must have thirty documented clock hours of K-12 experience or 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 CPDT bulletin board and 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 \$120 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 www.tea.state.tx.us 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 4768 will be taken during the first UHCL semester of employment. TCED 4769 will be taken during the second UHCL semester of employment. TCED 4709 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 School of Education's (SoE) 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. 176) sections of the catalog, the bulletin board at B1231 and SoE Web site for additional details on the SoE 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 \$77 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.

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 University of Houston-Clear Lake (UHCL) may register to take their state assessments on any of the test administration dates under the following conditions:

- Students must have an approved and signed degree or certification plan on file in the SoE that
 matches the state assessments for which they are registering, and
- Students must be formally admitted to the Teacher Education Program (TEP).

Students who meet the above conditions may register for the state assessments by completing the following steps:

- 1. Set up a TEA account at www.tea.state.tx.us. 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.texes.ets.org and set up a New User account. Students should use the exact personal information for this account as in their TEA account. Follow directions for registering for an exam using the TEA ID number retrieved from the TEA account. All test registrations are to be done online, unless the test taker has no way of paying the test fees electronically, in which case registration may be done by telephone at 1-800-205-2626.

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.texes.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.
- A computer-administered practice test program is available in Bayou 3606 and SSCB computer lab (2nd floor) for UHCL students pursuing certifications requiring the following exams: EC-6 Generalist, 4-8 Generalist, ESL Supplemental, Bilingual Supplemental, EC-12 Special Education, and 8-12 Social Studies.
- Review Sessions/Tutoring Faculty often work with students through individual tutoring sessions
 to help prepare them for the state assessments.
- Practice Tests Practice tests are administered in TCED 4010, Senior Seminar EC-12. The SoE's
 Office of State Assessments also gives practice tests approximately once a month. Call 281-2833609 for dates, times and locations.

TEXAS EDUCATION AGENCY (TEA)

For additional information on State certification, contact the Texas Education Agency (TEA) through its Web site at www.tea.state.tx.us, 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 www.tea.state.tx.us. 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.

ISSUES OR FEEDBACK

For issues or complaints, contact the School of Education Office of Academic Advising by email, education@uhcl.edu, or phone, 281-283-3600. If the issue is not resolved, contact the School of Education, Associate Dean, Dr. Kathryn Matthew, by email, matthew@uhcl.edu, or phone, 281-283-3620.

For further issues or complaints about this educator preparation program, contact www.tea.state.tx.us, or mail to Correspondence Management, Texas Education Agency, 1701 N. Congress, Austin, TX 78701.

PLANS WITH TEACHER CERTIFICATION

The School of Education (SoE) 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. EC-6 Generalist with Bilingual Supplemental (p. 134)
- 2. EC-6 Generalist (Early Childhood Concentration) (p. 135)
- 3. EC-6 Generalist (Reading Concentration) (p. 137)
- 4. EC-6 Generalist with EC-12 Special Education (All Level) (p. 139)
- 5. EC-6 Generalist with ESL Supplemental (p. 138)
- 6. 4-8 Generalist (p. 142)
- 7. 4-8 Generalist with ESL Supplemental (p. 143)
- 8. 4-8 Science (p. 145)
- 9. 4-8 Social Studies (p. 147)

Undergraduate students seeking either 4-8 or 7-12 certification in conjunction with an academic degree in another University of Houston-Clear Lake (UHCL) school (the School of Human Sciences and Humanities [HSH] or the School of Science and Computer Engineering [SCE]) must seek their degree plans in the appropriate school.

The staff in the SoE 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 SoE 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

Any student seeking initial teacher certification is required to attempt the Texas Higher Education Assessment (THEA) prior to the end of his/her first semester at University of Houston-Clear Lake

(UHCL). Any student who has not passed the THEA (see Admission to the Teacher Education Program [TEP]) or attempted the THEA in the previous long semester will not be permitted to register.

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

- EC-6 Bilingual Generalist
- EC-6 Generalist (Early Childhood Concentration)
- EC-6 Generalist (Reading Concentration)
- EC-6 ESL Generalist
- EC-6 Generalist with EC-12 Special Education (All Level)

INTERDISCIPLINARY STUDIES B.S. WITH EC-6 GENERALIST 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

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/Physical Science Labs

School of Education Core Requirements:

EDUC 4310 Theories of Educational Psychology INST 3313 Survey of Instructional Technologies SILC 4315 Theories of American Pluralism 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 4311 Reading Development in Young Children

LLLS 4311 Survey of Reading

LLLS 4344 Reading & Writing for EC-6 LLLS 4345 Survey of Children's Literature MATH 1350 Fundamentals of Math I Fundamentals of Math II MATH 1351 SILC 4301 SILC 4310 SILC 4313 Spanish for Bilingual Teachers

Foundations of Bilingual and ESL Education

Language Learning

SILC 4316 SILC 4351 Bilingual Curriculum in the Content Areas

Development of Biliteracy TCED 4100 Senior Seminar EC-12

TCED 4303 Creating Positive Learning Environments in EC-6

WRIT 3307 Advanced Writing

Choose TWO Natural Science courses in addition to the University Core

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

GPA of 2.500 or higher required in SILC 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.

INTERDISCIPLINARY STUDIES B.S. WITH EC-6 GENERALIST **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

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/Physical Science Labs

School 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 1318	Nutrition, Health and Safety
	Equivalent to TECA 1318
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
LLLS 4311	Survey of Reading
LLLS 4344	Reading & Writing for EC-6
LLLS 4345	Survey of Children's Literature
MATH 1350	Fundamentals of Math I
MATH 1351	Fundamentals of Math II
TCED 4100	Senior Seminar EC-12
TCED 4303	Creating Positive Learning Environments in EC-6
WRIT 3307	Advanced Writing

Choose TWO Natural Science courses in addition to the University Core

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

GPA of 2.500 or higher required in ECED 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.

INTERDISCIPLINARY STUDIES B.S. WITH EC-6 GENERALIST **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

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/Physical Science Labs

School of Education Core Requirements:

EDUC 4310 Theories of Educational Psychology INST 3313 SILC 4315 SPED 2301 Survey of Instructional Technologies Theories of American Pluralism 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:

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LLLS 4311	Survey of Reading
LLLS 4313	Corrective and Remedial Reading
LLLS 4332	Diagnostic and Prescriptive Reading
LLLS 4344	Reading & Writing for EC-6
LLLS 4345	Survey of Children's Literature
LLLS 4347	Multicultural Literature
LLLS 4351	Reading in Content Subjects
LLLS 4379	Practicum in Clinical Reading
MATH 1350	Fundamentals of Math I
MATH 1351	Fundamentals of Math II
MATH 3306	Problem Solving
TCED 4100	Senior Seminar EC-12

TCED 4303 Creating Positive Learning Environments in EC-6

WRIT 3307 Advanced Writing

Choose TWO Natural Science courses in addition to the University Core

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

GPA of 2.500 or higher required in LLLS 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.

INTERDISCIPLINARY STUDIES B.S. WITH EC-6 GENERALIST 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:

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/Physical Science Labs

School 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 4311	Reading Development in Young Children
LLLS 4311	Survey of Reading
LLLS 4344	Reading & Writing for EC-6
LLLS 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	Senior Seminar EC-12
TCED 4303	Creating Positive Learning Environments in EC-6
WRIT 3307	Advanced Writing

Choose TWO Natural Science courses in addition to the University Core

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
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GPA of 2.500 or higher required in SILC 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.

INTERDISCIPLINARY STUDIES B.S. WITH EC-6 GENERALIST AND EC-12 SPECIAL EDUCATION (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

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/Physical Science Labs

School 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
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SPED 4300 Survey of Exceptionalities

TCED 1301 Exploring Teaching as a Profession

Equivalent to EDUC 1301

Major Requirements:

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LLLS 4311	Survey of Reading
LLLS 4313	Corrective and Remedial Reading
LLLS 4332	Diagnostic and Prescriptive Reading
LLLS 4344	Reading & Writing for EC-6
MATH 1350	Fundamentals of Math I
MATH 1351	Fundamentals of Math II
SPED 4311	Assessment in Special Education
SPFD 4312	Diagnostic Instruction for Learners W

Diagnostic Instruction for Learners With Special Needs SPED 4312 SPED 4313 Individualizing Instruction for Students With Disabilities

SPED 4321 Implementing Positive Behavior Supports

SPED 4332 Early Childhood Special Education

TCED 4100 Senior Seminar EC-12

Creating Positive Learning Environments in EC-6 TCED 4303

Advanced Writing WRIT 3307

Choose TWO Natural Science courses in addition to the University Core

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
GPA of 2.500 or high	er 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 an EC-12 Special Education teaching certificate to teach at the Elementary level (Grades EC-6), teachers must also earn an EC-6 Generalist, 4-8 Generalist or a 4-8 content-specific teaching certificate. The University of Houston-Clear Lake (UHCL) undergraduate program includes the EC-6 Generalist 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 EC-12 Special Education program. Fully certified teachers can register for the additional TEXES as "By Exam Only."

To be "Highly Qualified" for employment with an EC-12 Special Education teaching certificate to teach at the Secondary level (grades 7-12), teachers must also earn the 4-8 Generalist 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://www.tea.state.tx.us/nclb. See the sections called "NCLB Quick Links" and "Highly Qualified Teacher Requirements."

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 School of Education (SoE):

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

School of Human Sciences and Humanities (HSH):

• English Language Arts and Reading

School of Science and Computer Engineering (SCE):

Mathematics

To be "Highly Qualified" for employment to teach at the Elementary level (Grades EC-6), teacher candidates must pass an EC-6 Generalist or 4-8 Generalist Texas Examinations of Educator Standards (TExES) exam. 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://www.tea.state.tx.us/nclb. See the sections called "NCLB Quick Links" and "Highly Qualified Teacher Requirements."

To be "Highly Qualified" for employment with an EC-12 Special Education teaching certificate to teach at the Secondary level (grades 7-12), teachers must also earn the 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." 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://www.tea.state.tx.us/nclb. See the sections called "NCLB Quick Links" and "Highly Qualified Teacher Requirements."

INTERDISCIPLINARY STUDIES B.S. WITH 4-8 GENERALIST 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:

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/Physical Science Labs

School 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 4311 Survey of Reading

LLLS 4345 Survey of Children's Literature

LLLS 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

Problem Solving MATH 3306 TCED 4100 Senior Seminar EC-12 TCED 4304 Creating Positive Learning Environments in 4-8

WRIT 3307 Advanced Writing

Choose TWO Natural Science courses in addition to the University Core

Choose ONE course from the following:

GEOG 1303	World Regional Geography

Geography of the United States and Canada GEOG 4300

GEOG 4302 GEOG 4303 Geography of Latin America

Geography of Texas **GEOG 4314** Geographic Concepts and Skills

Choose TWO courses from the following:

HIST 3301	Ancient World
HIST 3307	Medieval Europe

HIST 3309 Renaissance and Reformation

Introduction to Latin American History

HIST 3317 HIST 3319 HIST 3321 Colonial Latin America Modern Latin America HIST 3323 History of Mexico HIST 3325 Colonial America

HIST 3327 The New American Nation Antebellum America HIST 3329 HIST 3330 Civil War and Reconstruction HIST 3339 HIST 4325 Texas and the Borderlands Studies in Non-Western 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

Pedagogy Requirements:

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

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

-8

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.

INTERDISCIPLINARY STUDIES B.S. WITH 4-8 GENERALIST 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:

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/Physical Science Labs

School 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

Exploring Teaching as a Pro Equivalent to EDUC 1301

Major Requirements:

LLLS 4311	Survey of Reading
LLLS 4346	Teaching Language Arts in the 4-8 Classroom
LLLS 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	Senior Seminar EC-12
TCED 4304	Creating Positive Learning Environments in 4-8
W/RIT 3307	Advanced Writing

WRIT 3307 Advanced Writing

Choose TWO Natural Science courses in addition to the University Core

Choose ONE course from the following:

LITK 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
LLLS 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

GPA of 2.500 or higher required in SILC 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.

INTERDISCIPLINARY STUDIES B.S. WITH 4-8 SCIENCE 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

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 Lab for Biology for Science Majors I BIOL 1107 Lab for Biology for Science Majors II

School 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:

1,11,01 110 4 1111 0111 011	
ASTR 3311	Modern Astronomy
CHEM 1311	General Chemistry I
	Equivalent to CHEM 1411
CHEM 1111	Laboratory for General Chemistry I
CHEM 1312	General Chemistry I
	Equivalent to CHEM 1412
CHEM 1112	Laboratory for General Chemistry II
ENSC 1301	Laboratory for Environmental Science I
	Equivalent to ENVR 1401
ENSC 1101	Laboratory for Environmental Science I
GEOL 1303	Laboratory for Physical Geology
	Equivalent to GEOL 1403
GEOL 1103	Laboratory for Physical Geology
GEOL 1304	Laboratory for Physical Geology
	Equivalent to GEOL 1404
GEOL 1104	Laboratory for Physical Geology
LLLS 4311	Survey of Reading
LLLS 4351	Reading in Content Subjects
MATH 1350	Fundamentals of Math I
MATH 1351	Fundamentals of Math II
PHYS 1301	College Physics I
	Equivalent to PHYS 1401
PHYS 1101	Laboratory for College Physics I
PHYS 1302	College Physics II
	Equivalent to PHYS 1402
PHYS 1102	Laboratory for College Physics II
TCED 4100	Senior Seminar EC-12
TCED 4304	Creating Positive Learning Environments in 4-8
WRIT 3307	Advanced Writing
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Pedagogy Requirements:

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

GPA of 2.500 or higher required in Natural Science 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.

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 an EC-6 Generalist or 4-8 Generalist Texas Examinations of Educator Standards (TExES) exam. 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 TEA's NCLB office for further information at 1-512-463-9374 or http://www.tea.state.tx.us/nclb. See the sections called "NCLB Quick Links" and "Highly Qualified Teacher Requirements."

INTERDISCIPLINARY STUDIES B.S. WITH 4-8 SOCIAL STUDIES **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:

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

Component Area Option

COMM 1315 Public Speaking

Equivalent to SPCH 1315 PSYC 1100 Learning Frameworks

Two 1-hr Life/Physical Science Labs

School of Education Core Requirements:

EDUC 4310 Theories of Educational Psychology INST 3313 Survey of Instructional Technologies SILC 4315 Theories of American Pluralism Introduction to Special Populations Equivalent to EDUC 2301 SPED 2301 Survey of Exceptionalities SPED 4300 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	Geographic Concepts and Skills
HIST 3325	Colonial America

HIST 3327

The New American Nation HIST 3330 Civil War and Reconstruction HIST 3339 Texas and the Borderlands

LLLS 4311 Survey of Reading

LLLS 4345 Survey of Children's Literature LLLS 4351 Reading in Content Subjects MATH 1350 Fundamentals of Math I

MATH 1351 Fundamentals of Math II TCED 4100 Senior Seminar EC-12

TCED 4304 Creating Positive Learning Environments in 4-8

WRIT 3307 Advanced Writing

Choose TWO Natural Science courses in addition to the University Core

Pedagogy Requirements:

TCED 4331 Social Studies Methods for Grades 4-8

TCED 4378 Pre-Service Internship I TCED 4978 Pre-Service Internship II

GPA of 2.500 or higher required in GEOG and HIST 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 to teach at the Elementary level (Grades EC-6), teacher candidates must pass an EC-6 Generalist or 4-8 Generalist Texas Examinations of Educator Standards (TExES) exam. 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. 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 TEA's NCLB office for further information at 1-512-463-9374 or http://www.tea.state.tx.us/nclb. See the sections called "NCLB Quick Links" and "Highly Qualified Teacher Requirements."

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

This certificate is offered through the School of Education (SoE) with the degree being offered through the School of Human Sciences and Humanities (HSH). Please refer to HSH's portion of the catalog (p. 222) 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/Physical Science Labs

School of Human Science and Humanities Core Requirements:

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

PHIL 4314 The Great Philosophers I PHIL 4315 The Great Philosophers II

Human Science Requirement:

Choose ONE course from the following list:

Contemporary Cultural Anthropology ANTH 3311 ANTH 4352 World Prehistory and Archaeology

PSYC 3331 PSYC 4311/SOCI 4311 Theories of Personality

Social Psychology

Social Structure: Class, Power, and Status SOCI 4312

SOCI 4322 Theories of Society

WMST 4308/HUMN Introduction to Women's Studies

4308/PSYC

4308/WMST 4308

School 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 Survey of Exceptionalities

SPED 4300 Exploring Teaching as a Profession TCED 1301

Equivalent to EDUC 1301

Major Requirements:

Choose ONE American Literature Course (3000/4000 level)

Choose ONE British Literature (3000/4000 level)

Choose ONE British Literature (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 2321	British Literature
LITR 2326	American Literature
LITR 3301	Literary Studies: Genres and Critical Perspectives
LITR 3302	Principles of Composition
LLLS 4311	Survey of Reading
LLLS 4346	Teaching Language Arts in the 4-8 Classroom
LLLS 4351	Reading in Content Subjects
MATH 1350	Fundamentals of Math I
MATH 1351	Fundamentals of Math II
TCED 4100	Senior Seminar EC-12
TCED 4304	Creating Positive Learning Environments in 4-8
Choose TWO Natura	l Science courses in addition to the University Core

Pedagogy Requirements:

TCED 4378 Pre-Service Internship I TCED 4978 Pre-Service Internship II

GPA of 2.500 or higher required in LITR and LLLS 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 to teach at the Elementary level (Grades EC-6), teacher candidates must pass an EC-6 Generalist or 4-8 Generalist Texas Examinations of Educator Standards (TExES) exam. 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 TEA's NCLB office for further information at 1-512-463-9374 or http://www.tea.state.tx.us/nclb. See the sections called "NCLB Quick Links" and "Highly Qualified Teacher Requirements."

MATHEMATICS B.A. WITH 4-8 MATHEMATICS CERTIFICATION

This certificate is offered through the School of Education (SoE) with the degree being offered through the School of Science and Computer Engineering (SCE). Please refer to SCE's portion of the catalog (p. 252) 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

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/Physical Science Labs

School of Education Core Requirements:

EDUC 4310 Theories of Educational Psychology INST 3313 Survey of Instructional Technologies SILC 4315 Theories of American Pluralism Introduction to Special Populations Equivalent to EDUC 2301 SPED 2301

SPED 4300 Survey of Exceptionalities TCED 1301 Exploring Teaching as a Profession

Equivalent to EDUC 1301

Major Requirements:

Survey of Reading LLLS 4311

LLLS 4351 Reading in Content Subjects TCED 4100 Senior Seminar EC-12

TCED 4304 Creating Positive Learning Environments in 4-8

WRIT 3315 Technical Writing

Choose TWO Natural Science Electives, in addition to the University Core science (6 hours from:

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

MATH 1350 Fundamentals of Math I MATH 1351 Fundamentals of Math II

MATH 2318 Linear Algebra MATH 2414 Calculus II

MATH 3304 Algebra Through Technology

MATH 4300 Introduction to Modern Algebra and Number Theory

STAT 4344 Introduction to Probability

Choose THREE courses from the following list of 9 choices:

MATH 2315

MATH 3305 Euclidian and Non-Euclidian Geometry MATH 4301 History of the Mathematical Sciences

MATH 4312 Number Theory

MATH 4315 Numerical Analysis and its Applications Mathematic Software Applications MATH 4316

MATH 4321 Predicate Logic

STAT 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

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-6), teacher candidates must pass an EC-6 Generalist or 4-8 Generalist Texas Examinations of Educator Standards (TExES) exam. 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 TEA's NCLB office for further information at 1-512-463-9374 or view its Web site at http://www.tea.state.tx.us/nclb. See the sections called "NCLB Quick Links" and "Highly Qualified Teacher Requirements."

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

School of Human Sciences and Humanities (HSH):

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

School of Science and Computer Engineering (SCE):

- 7-12 Life Sciences
- 7-12 Mathematics

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

This certificate is offered through the School of Education (SoE) with the degree being offered through the School of Human Sciences and Humanities (HSH). Please refer to HSH's portion of the catalog (p. 222) 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/Physical Science Labs

School of Human Science and Humanities Core Requirements:

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 PSYC 4311/SOCI 4311 Theories of Personality Social Psychology

Social Structure: Class, Power, and Status SOCI 4312

SOCI 4322 Theories of Society

Introduction to Women's Studies WMST 4308/HUMN

4308/PSYC 4308/WMST 4308

School 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:

LITR 2000-level American or British Literature

LITR 2000-level American or British Literature

Choose ONE American Literature Course (3000/4000 level)

Choose ONE British Literature (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

LLLS 4313 Corrective and Remedial Reading
LLLS 4332 Diagnostic and Prescriptive Reading
LLLS 4352 Young Adult Literature and Reading

TCED 4100 Senior Seminar EC-12

TCED 4306 Creating Positive Learning Environments in 7-12

Pedagogy Requirements:

TCED 4364 Methods in Technology TCED 4378 Pre-Service Internship I TCED 4978 Pre-Service Internship II

GPA of 2.500 or higher required in LITR and LLLS 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.

HISTORY B.A. WITH 7-12 HISTORY CERTIFICATION

This certificate is offered through the School of Education (SoE) with the degree being offered through the School of Human Sciences and Humanities (HSH). Please refer to HSH's portion of the catalog (p. 212) 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/Physical Science Labs

School of Human Science and Humanities Core Requirements:

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

Human Science Requirement:

Choose ONE course from the following list:

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

PSYC 4311/SOCI 4311 Social Psychology SOCI 3351 Political Sociology SOCI 4322 Theories of Society

School of Education Core Requirements:

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

ECON 2301 Principles of Macroeconomics ECON 2302 Principles of Microeconomics LLLS 4351 Reading in Content Subjects TCED 4100 Senior Seminar EC-12

TCED 4306 Creating Positive Learning Environments in 7-12

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 THREE History Electives (3000/4000 level)

Choose ONE Economics course from the following:

Pedagogy Requirements:

TCED 4361 Methods in Secondary Social Studies

TCED 4378 Pre-Service Internship I

TCED 4978 Pre-Service Internship II

GPA of 2.500 or higher required in HIST and LLLS 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.

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

This certificate is offered through the School of Education (SoE) with the degree being offered through the School of Human Sciences and Humanities (HSH). Please refer to HSH's portion of the catalog (p. 239) 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 following:

ECON 2301 Principles of Macroeconomics ECON 2302 Principles of Microeconomics

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/Physical Science Labs

School of Human Science and Humanities Core Requirements:

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 3000/4000-level course chosen from ARTS, COMM, HIST, HUMN, LITR, or WRIT

ANTH 3311 Contemporary Cultural Anthropology

ANTH 4334 Native Americans SOCI 3351 Political Sociology

School 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

Modern Physical Geography

Major Requirements:

GEOG 1301

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	Geographic Concepts and Skills
GEOG 4317	International Political Economy
GEOG 4321	Fundamentals of Geographic Information Systems
HIST 3339	Texas and the Borderlands
	Two History Electives

Two History Electives
LLLS 4351 Reading in Content Subjects

LLLS 4351 Reading in Content Subje TCED 4100 Senior Seminar EC-12

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

GPA of 2.500 or higher required in GEOG and HIST 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.

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

This certificate is offered through the School of Education (SoE) with the degree being offered through the School of Human Sciences and Humanities (HSH). Please refer to HSH's portion of the catalog (p. 214) 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

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/Physical Science Labs

School of Human Science and Humanities Core Requirements:

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 The Great Philosophers I PHIL 4314 PHIL 4315 The Great Philosophers II

Human Science Requirement:

Choose ONE course from the following list:

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

PSYC 4311/SOCI 4311 Social Psychology SOCI 3351 Political Sociology SOCI 4322 Theories of Society

School of Education Core Requirements:

EDUC 4310 Theories of Educational Psychology INST 3313 Survey of Instructional Technologies SILC 4315 Theories of American Pluralism 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 European History Courses (3000/4000 level)

Choose THREE American History Courses (3000/4000 level)

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

Choose THREE History Electives (3000/4000 level)

Choose ONE Economics course from the following list:

ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
HIST 3301 Ancient World
LLLS 4351 Reading in Content Subjects

LLLS 4351 Reading in Content Subjects TCED 4100 Senior Seminar EC-12

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

GPA of 2.500 or higher required in HIST and LLLS 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.

BIOLOGICAL SCIENCES B.A. WITH 7-12 LIFE SCIENCES CERTIFICATION

This certificate is offered through the School of Education (SoE) with the degree being offered through the School of Science and Computer Engineering (SCE). Please refer to SCE's portion of the catalog (p. 256) 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 Lab for Biology for Science Majors I **BIOL 1107** Lab for Biology for Science Majors II

School of Education Core Requirements:

EDUC 4310 Theories of Educational Psychology INST 3313 Survey of Instructional Technologies SILC 4315 Theories of American Pluralism Introduction to Special Populations Equivalent to EDUC 2301 SPED 2301

SPED 4300 Survey of Exceptionalities Exploring Teaching as a Profession Equivalent to EDUC 1301 TCED 1301

Major Requirements:

LLLS 4351 Reading in Content Subjects STAT 3308 Computational Statistics TCED 4100 Senior Seminar EC-12

Creating Positive Learning Environments in 7-12 TCED 4306

WRIT 3315 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 Molecular Genetics Laboratory BIOL 2321 Microbiology for Science Majors

BIOL 2121 Laboratory for Microbiology for Science Majors

CHEM 1311 General Ćhemistry I

Equivalent to CHEM 1411

Laboratory for General Chemistry I CHEM 1111

General Chemistry I CHEM 1312

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

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 Ánatomy

And

BIOL 3173 Human Anatomy Laboratory

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

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 7-12 MATHEMATICS CERTIFICATION

This certificate is offered through the School of Education (SoE) with the degree being offered through the School of Science and Computer Engineering (SCE). Please refer to SCE's portion of the catalog (p. 252) 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

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

oo rexas 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/Physical Science Labs

School of Education Core Requirements:

EDUC 4310 Theories of Educational Psychology INST 3313 Survey of Instructional Technologies SILC 4315 Theories of American Pluralism 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 TCED 4100 Senior Seminar EC-12

TCED 4306 Creating Positive Learning Environments in 7-12

WRIT 3315 Technical Writing

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

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

MATH 2414 Calculus II
MATH 2318 Linear Algebra
MATH 2320 Differential Equations
MATH 3304 Algebra Through Technology

MATH 3305 Euclidian and Non-Euclidian Geometry

MATH 4300 Introduction to Modern Algebra and Number Theory

MATH 4312 Number Theory

STAT 4344 Introduction to Probability

Choose FOUR courses from the following list of 8 choices:

MATH 2315 Calculus III

MATH 4301 History of the 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

STAT 4345 Introduction to Statistics

Pedagogy Requirements:

TCED 4363 Methods in Secondary Mathematics

TCED 4378 Pre-Service Internship I TCED 4978 Pre-Service Internship II

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

Check prerequisites before enrolling in any courses.

MATHEMATICS B.S. WITH 7-12 MATHEMATICS CERTIFICATION

This certificate is offered through the School of Education (SoE) with the degree being offered through the School of Science and Computer Engineering (SCE). Please refer to SCE's portion of the catalog (p. 252) 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

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/Physical Science Labs

School 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:

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LLLS 4351	Reading in Content Subjects
MATH 2414	Calculus II
MATH 2315	Calculus III
MATH 2318	Linear Algebra
MATH 2320	Differential Equations
MATH 3304	Algebra Through Technology
MATH 3305	Euclidian and Non-Euclidian Geometry
MATH 4316	Mathematic Software Applications
MATH 4331	Advanced Calculus
STAT 4344	Introduction to Probability

TCED 4100 Senior Seminar EC-12

TCED 4306 Creating Positive Learning Environments in 7-12

WRIT 3315 Technical Writing

Choose ONE course from the following 2 choices:

MATH 4322 Introduction to Abstract Algebra STAT 4345 Introduction to Statistics

Choose THREE courses from the following list of 8 choices:

MATH 4312 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 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

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.

School of Human Sciences and Humanities (HSH):

EC-12 Art

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

U.S. History

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

Government/Political Science

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/Physical Science Labs

School of Human Science and Humanities Core Requirements:

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 4XXX 4000-Level Art History Elective

School 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 Beginning Drawing ARTS 2356 Traditional Photography ARTS 2371 Digital Photography I

ARTS 3310 Sculpture ARTS 3320 Ceramics

ARTS 3331 Intermediate Drawing ARTS 3335 Intermediate Painting ARTS 3340 Intermediate Printmaking

ARTS 3360 Graphic Design

ARTS 4302 Crafts Design and History ARTS 4XXX 4000-Level Art History Elective LLLS 4351 Reading in Content Subjects TCED 4100 Senior Seminar EC-12

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

GPA of 2.500 or higher required in ARTS and LLLS 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.

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. It is a non-certification program including three tracks: Educator of Young Children, Young Children with Disabilities, and Early Childhood Program Leadership. 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 Federal 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/Physical Science Labs

Transfer Technical/Vocational Requirements:

Administration of Programs for Children I

Equivalent to CDEC 2326

ECED 4325 Early Childhood Program Development

> Equivalent to CDEC 2328 Dynamics of Human Relations Equivalent to FMLD 1372

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

School of Education Requirements:

INST 3313 Survey of Instructional Technologies SILC 4315 Theories of American Pluralism SPED 4332 Early Childhood Special Education

WRIT 3307 Advanced Writing

Major Requirements:

ECED 1303	Children and Families
	Equivalent to TECA 1303
ECED 1211	Historical and Docume Trands in Faulty Childha

Historical and Recent Trends in Early Childhood Education ECED 1311

Equivalent to TECA 1311 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 for Young Children Birth-Age 5

Equivalent to CDEC 2307 ECED 4308 Creativity in Early Childhood Advocacy and Parent Engagement ECED 4309 ECED 4320 Play

ECED 4321 Infants and Toddlers

ECED 4322 Cultural Awareness for Young Children

ECED 4323 Preschool Curriculum

ECED 4377 Practicum I

Early Childhood Program Leadership Requirements:

ECED 4324 Early Childhood Leadership and Program Quality

Choose ONE course from the following:

ECED 4378 Practicum II

Selecting Literature for the Very Young Child LLLS 4348

SPED 4300 Survey of Exceptionalities

SPED 4333 Advanced Early Childhood Special Education

Check prerequisites before enrolling in any courses.

INTERDISCIPLINARY STUDIES B.A.S. WITH A MAJOR IN EARLY CHILDHOOD EDUCATION – YOUNG CHILDREN WITH DISABILITIES 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/Physical Science Labs

Transfer Technical/Vocational Requirements:

ECED 4307 Mathematics and Science for Young Children Birth-Age 5

Equivalent to CDEC 2307

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

Choose ONE course from the following:

Administration of Programs for Children I

Equivalent to CDEC 2326

ECED 4325 Early Childhood Program Development

Equivalent to CDEC 2328

School of Education Requirements:

INST 3313 Survey of Instructional Technologies
SILC 4315 Theories of American Pluralism
SPED 4332 Early Childhood Special Education

WRIT 3307 Advanced Writing

Major Requirements:

major recquire	oments.
ECED 1303	Children and Families
	Equivalent to TECA 1303
ECED 1311	Historical and Recent Trends in Early Childhood Education
	Equivalent to TECA 1311
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 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 4377	Practicum I

Early Childhood Program Leadership Requirements:

SPED 4300	Survey of Exceptionalities

SPED 4333 Advanced Early Childhood Special Education

Choose ONE course from the following:

ECED 4324	Early Childhood Leadership and Program C	Quality

ECED 4325 Early Childhood Program Development

Equivalent to CDEC 2328

ECED 4378 Practicum II

LLLS 4348 Selecting Literature for the Very Young Child

Check prerequisites before enrolling in any courses.

INTERDISCIPLINARY STUDIES B.A.S. WITH A MAJOR IN EARLY CHILDHOOD EDUCATION – EARLY CHILDHOOD PROGRAM LEADERSHIP 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/Physical Science Labs

Transfer Technical/Vocational Requirements:

Curriculum Resources for Young Children

Equivalent to CDEC 1313

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

Choose ONE course from the following:

Administration of Programs for Children I

Equivalent to CDEC 2326

ECED 4325 Early Childhood Program Development

Equivalent to CDEC 2328

Children and Families

School of Education Requirements:

INST 3313	Survey of Instructional Technologies
SILC 4315	Theories of American Pluralism
SPED 4332	Early Childhood Special Education

WRIT 3307 Advanced Writing

Major Requirements:

ECED 1303

	Equivalent to TECA 1303
ECED 1311	Historical and Recent Trends in Early Childhood Education
	Equivalent to TECA 1311
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 for Young Children Birth-Age 5
	Equivalent to CDEC 2307
ECED 4308	Creativity in Early Childhood
ECED 4309	Advocacy and Parent Engagement
FCFD 4320	Play

ECED 4320

ECED 4321 Infants and Toddlers

ECED 4322 Cultural Awareness for Young Children

Preschool Curriculum ECED 4323

ECED 4377 Practicum I

Early Childhood Program Leadership Requirements:

LLLS 4348 Selecting Literature for the Very Young Child

Choose ONE course from the following:

ECED 4324	Early Childhood Leadership and Program Quality

ECED 4325 Early Childhood Program Development Equivalent to CDEC 2328

ECED 4378 Practicum II

SPED 4300 Survey of Exceptionalities

SPED 4333 Advanced Early Childhood Special Education

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). Admission to the School of Education (SoE) TEP is contingent on the following:

- 1. Meeting Basic Skills in Reading, Mathematics & Writing by completing one of the following:
 - a. <u>Baccalaureate degree</u> or higher awarded by a regionally accredited U.S. institution of higher education.
 - b. <u>Core Complete</u> 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. <u>SAT</u> (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. <u>STAAR End of Course exams</u> (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.
 - g. TASP/THEA/Quick THEA TEST Alternative tests (ACCESS, COMPASS, etc.) are not accepted. Submit the following TASP/THEA scores Reading: 260, Writing: 230, Mathematics: 230.
- 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 SOE Forms and Info section.
- 3. Achieving a grade of "C-"or better in EDUC 4130, SILC 4135 and INST 3133.
- 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.
- Achieving a grade point average (GPA) ≥ 2.750 overall or in the last 60 semester credit hours. A
 GPA will be calculated by the SoE after an 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 math or science certificate to teach 7 or above must have 15 semester credit hours completed in the content area.
- 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. 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.
- 9. Receiving formal approval of the application for admission to the TEP.

Upon admission to the TEP, the SoE 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 SoE.

Admission to Pre-Service Internships I and II For Undergraduate Students

TCED 4374, Pre-Service Internship I; and TCED 4978, Pre-Service Internship II (or TCED 4668, Pre-Service Internship 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 4378, and TCED 4978/TCED 4668 are identical. Pre-Service Internship I is every Wednesday of the public school semester. Pre-Service Internship 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 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 and II are not offered in the summer.

Current Internship I candidates do not need to apply for Internship II. The SoE 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.

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. SoE advisors 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)
- 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, successful completion of MATH 3302 is a prerequisite. For those certifications requiring TCED 4333, successful completion of MATH 1315 is a prerequisite, unless otherwise noted in the catalog. See catalog prerequisites for all pedagogy courses.
- 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.

6. 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 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 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. Scores must be submitted by July 15 for fall intern II participants and December 15 for spring intern II participants.

PRE-SERVICE INTERNSHIP II (TCED 4978 OR TCED 4668)

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

- 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.
- 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. Successful completion of TCED 4100.
- 8. 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 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.

THECB AIDE EXEMPTION PROJECT

Funding for this project was discontinued August 31, 2011. See http://www.collegeforalltexans.com/apps/financialaid/tofa2.cfm?ID=572. Currently, those students accepted into the THECB Aide Exemption Project prior to August 31, 2011 are eligible for the summer five-week aide project.

According to Texas House Bill 1130 passed in 2001, an educational aide may apply to the Texas Higher Education Coordinating Board (THECB) to be a part of its "Educational Aide Exemption Program." Once approved by the THECB, students may receive exemption from enrolling and participating in student teaching; UHCL students would be exempt from Internships I and II. The form, "THECB Educational Aide Exemption Program Internship I and II Waiver," must be completed by any educational aide participating in the program seeking a teaching certificate at UHCL and desiring exemption from Internships I and II.

THECB REQUIREMENTS OF THE STUDENTS ACCEPTED INTO THE AIDE EXEMPTION PROJECT PRIOR TO AUGUST 31, 2011.

Students must have served for at least one year as an educational aide during the five years preceding the start date of the semester they are being exempted from tuition, certain fees and Internships I or II.

Students must have been accepted into the THECB exemption program for at least one semester within the five years prior to the start of the semester in which they would have taken Internship I.

As required by Texas Senate Bill 9, students will be required to submit to a criminal background check conducted by the district upon acceptance into and prior to beginning TCED 4377 (THECB Aide Project). In order for the criminal background check to be conducted, each student must provide all required documentation, including his/her social security number and his/her driver's license number. If a student does not have a driver's license, the state identification number must be provided.

UHCL REQUIREMENTS TO WAIVE INTERNSHIPS I AND II FOR STUDENTS ACCEPTED INTO THE AIDE EXEMPTION PROJECT PRIOR TO AUGUST 31, 2011.

- Students must sign the waiver and submit it to B1231 before enrolling in the final year of their
 degree plan. Students must have a University of Houston-Clear Lake (UHCL) undergraduate
 degree plan on file, which includes seeking teacher certification. Students must attach a Verification
 of Experience form verifying at least one year of the education aide experience within the specified
 time guidelines. Students must also attach a copy of the Texas Higher Education Coordinating
 Board (THECB) letter of acceptance into their aide exemption program.
- Students must be undergraduates at the time the waiver is signed. Students who already hold a bachelor's degree or higher before signing the waiver are not eligible for this program.
- All Texas Examinations of Educator Standards (TEXES) exams must be passed to be eligible for the THECB Aide Project. Scores must be submitted by April 15.
- Students must complete an additional 12 semester credit hours of advised UHCL coursework to replace Internships I and II. These grades will be calculated into the pedagogy coursework, which requires a minimum 3.000 grade point average (GPA). These 12 hours will include the following courses:
 - TCED 4737, THECB Aide Project. This three-hour, five-week course includes one week of observations and four weeks of teaching in the area and level of the certificate being pursued. This course is offered only in the first five-week summer session. The UHCL Director of the Center for Professional Development of Teachers (CPDT) will place the students. Students should attend an informational meeting, which is held in early September and February of each year. Dates and times are posted on the bulletin board outside Suite B1231 and on the CPDT website. The applications for TCED 4377 are due March 1 and are available at the informational meeting or by contacting the CPDT. Mailed forms must be postmarked by February 24. No faxes or late applications will be accepted. TCED 4377 requires coenrollment in (or previous completion of a semester in) TCED 4100, prior to admission to the Teacher Education Program (TEP) and successful completion of MATH 3302 or MATH 3037 if required on the Candidate Plan of Study (CPS). TCED 4377 will replace Internship I and will require a grade of "B-" or better. Students may only have six hours or less of coursework during the long semester following TCED 4377. Academic Advising will conduct an audit to determine students' eligibility for TCED 4377.
 - TCED 4303, Creating Positive Learning Environments in EC-6, or TCED 4304, Creating
 Positive Learning Environments in 4-8 and 8-12. (Students with TCED 4303 or TCED
 4304 already on their plans must substitute a different three-hour course, approved by an
 academic adviser, as part of this 12-hour package).
 - Six hours of advised coursework.

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 advisor in the School 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:
 - <u>EC-6 Generalist</u>: SILC 4302, SILC 4310, SILC 4311, SILC 4312, SILC 4313, SPED 4311, SPED 4312, SPED 4313 or SPED 4321.
 - EC-6 Bilingual Generalist: SPED 4311, SPED 4312, SPED 4313 or SPED 4321.
 - EC-6 ESL Generalist: SPED 4311, SPED 4312, SPED 4313 or SPED 4321.
 - EC-6 Generalist/EC-12 Special Education: SILC 4302, SILC 4310, SILC 4311, SILC 4312 or SILC 4313.
 - All 4-8 certifications: select additional content courses in consultation with advisor.
- Provide a letter of support from the current principal of the school in which you are employed.
 Must be submitted prior to graduation.
- 2. Provide a Letter of Intent to Hire from the district in which you are to be employed as a full-time teacher.
- Attend an ACP Information Meeting. Check with the School of Education Office of Academic Advising for dates and times. You will receive the ACP Application at this meeting. Must be done prior to graduation.
- 4. Submit the ACP Application to the Center for the Professional Development of Teachers by the posted deadline prior to graduation.
- 5. 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.
- 6. 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.
- 7. Apply for graduation by the posted deadline.
- 8. 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 (p. 105) section of the catalog.

POST-BACCALAUREATE TEACHER CERTIFICATION PLANS

To be eligible for admission to a post-baccalaureate teacher certification plan, students must hold a bachelor's degree from an accredited university and meet the university admissions requirements for post-baccalaureate students. Post-baccalaureate students are considered undergraduate students; therefore, they must maintain undergraduate academic standards and pay undergraduate tuition and fees. Post-baccalaureate teacher certification students are not eligible to enroll in graduate courses, and coursework taken toward earning initial teacher certification may not be applied to a master's degree.

Post-Baccalaureate Teacher Certification Plans

- 1. EC-6 Generalist (Early Childhood Concentration)
- 2. EC-6 Generalist (Reading Concentration)
- 3. EC-6 Bilingual Generalist
- 4. EC-6 ESL Generalist
- 5. EC-6 Generalist with EC-12 Special Education
- 4-8 English Language Arts and Reading
- 7. 4-8 English Language Arts and Reading/Social Studies
- 8. 4-8 Generalist
- 9. 4-8 Mathematics
- 10. 4-8 Science
- 11. 4-8 Social Studies
- 12. 7-12 English Language Arts and Reading
- 13. 7-12 History
- 14. 7-12 Life Sciences
- 15. 7-12 Mathematics
- 16. 7-12 Social Studies

To be "Highly Qualified" for employment to teach at the Elementary level (Grades EC-6), teacher candidates must pass an EC-6 Generalist or 4-8 Generalist Texas Examinations of Educator Standards (TExES) exam. 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 TEA's No Child Left Behind (NCLB) office for further information at 1-512-463-9374 or view its Web site at http://www.tea.state.tx.us/nclb. See the sections called "NCLB Quick Links" and "Highly Qualified Teacher Requirements."

To be "Highly Qualified" for employment with an EC-12 Special Education teaching certificate to teach at the Secondary level (grades 7-12), teachers must also earn a 4-8 Generalist, a 4-8 content-specific or an 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://www.tea.state.tx.us/nclb. See the sections called "NCLB Quick Links" and "Highly Qualified Teacher Requirements."

Any student seeking initial teacher certification is required to attempt the Texas Higher Education Assessment (THEA) prior to the end of his/her first semester at University of Houston-Clear Lake (UHCL). Any student who has not passed the THEA (see Admission to the Teacher Education Program [TEP]) or attempted the THEA in the previous long semester will not be permitted to register.

POST-BACCALAUREATE TEACHER CERTIFICATION PLAN EC-6 GENERALIST (EARLY CHILDHOOD CONCENTRATION)

Check prerequisites before enrolling in any courses.

Certificate Plan Requirements

Academic Specialization Courses:

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

Prerequisite Courses for Admission to Teacher Education Program (TEP):

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

Or Post-Degree Internship I

TCED 4678 TCED 4679

And Post-Degree Internship II

Other required courses:

LLLS 4344	Reading & Writing for EC-6
LLLS 4345	Survey of Children's Literature
SPED 4300	Survey of Exceptionalities
TCED 4100	Senior Seminar EC-12

POST-BACCALAUREATE TEACHER CERTIFICATION PLAN EC-6 GENERALIST (READING CONCENTRATION)

Check prerequisites before enrolling in any courses.

Certificate Plan Requirements

Academic Specialization Courses:

LLLS 4311	Survey of Reading
LLLS 4313	Corrective and Remedial Reading
LLLS 4332	Diagnostic and Prescriptive Reading
LLLS 4344	Reading & Writing for EC-6
LLLS 4345	Survey of Children's Literature
LLLS 4351	Reading in Content Subjects

LLLS 4379 Practicum in Clinical Reading

Prerequisite Courses for Admission to Teacher Education Program (TEP):

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 Or TCED 4678 Post-Degree Internship I

TCED 4679 Post-Degree Internship II

Other required courses:

SPED 4300 Survey of Exceptionalities

TCED 4303 Creating Positive Learning Environments in EC-6

TCED 4100 Senior Seminar EC-12

POST-BACCALAUREATE TEACHER CERTIFICATION PLAN EC-6 BILINGUAL GENERALIST

Check prerequisites before enrolling in any courses.

Certificate Plan Requirements

Academic Specialization Courses:

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

Prerequisite Courses for Admission to Teacher Education Program (TEP):

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

Or TCED 4678 Post-Degree Internship I

TCED 4679 Post-Degree Internship II

Other required courses:

LLLS 4344 Reading & Writing for EC-6 SPED 4300 Survey of Exceptionalities TCED 4100 Senior Seminar EC-12

POST-BACCALAUREATE TEACHER CERTIFICATION PLAN EC-6 **FSL GENERALIST**

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

Foundations of Bilingual and ESL Education

SILC 4310 SILC 4313 SILC 4311 Language Learning ESL Methods

Choose one course from:

SILC 4302 Introduction to the Study of Languages

SILC 4312 Content-Based ESL

Prerequisite Courses for Admission to Teacher Education Program (TEP):

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

Or

TCED 4678 Post-Degree Internship I

TCED 4679 Post-Degree Internship II

Other required courses:

LLLS 4344 Reading & Writing for EC-6 SPED 4300 Survey of Exceptionalities TCED 4100 Senior Seminar EC-12

POST-BACCALAUREATE TEACHER CERTIFICATION PLAN EC-6 GENERALIST WITH EC-12 SPECIAL EDUCATION

Check prerequisites before enrolling in any courses.

Certificate Plan Requirements

Academic Specialization Courses:

SPED 4300 Survey of Exceptionalities 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

Prerequisite Courses for Admission to Teacher Education Program (TEP):

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

Pedagogy:

TCED 4678

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

Post-Degree Internship I

And

TCED 4679 Post-Degree Internship II

Other required courses:

LLLS 4344 Reading & Writing for EC-6 LLLS 4345 Survey of Children's Literature

TCED 4303 Creating Positive Learning Environments in EC-6

TCED 4100 Senior Seminar EC-12

POST-BACCALAUREATE TEACHER CERTIFICATION PLAN 4-8 ENGLISH LANGUAGE ARTS AND READING

This plan has a content waiver option based on passing the content state assessments on the first attempt. See a School of Education (SoE) 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 4346 Teaching Language Arts in the 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

Prerequisite Courses for Admission to Teacher Education Program (TEP):

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

Pedagogy:

1 044508/	
TCED 4378	Pre-Service Internship I
	And
TCED 4978	Pre-Service Internship II
TCED 4678	Or
	Post-Degree Internship I And
TCED 4/70	
TCED 4679	Post-Degree Internship II

Other required courses:

SPED 4300	Survey of Exceptionalities
TCED 4100	Senior Seminar EC-12
TCED /20/	C . D I . E

TCED 4304 Creating Positive Learning Environments in 4-8

POST-BACCALAUREATE TEACHER CERTIFICATION PLAN 4-8 ENGLISH LANGUAGE ARTS, READING AND SOCIAL STUDIES

This plan has a content waiver option based on passing the content state assessment on the first attempt. See a School of Education (SoE) adviser for details.

Check prerequisites before enrolling in any courses.

Certificate Plan Requirements

Academic Specialization Courses:

HIST 3301	Ancient World
HIST 3339	Texas and the Borderlands
LITR 3361	Shakespeare
LITR 3302	Principles of Composition
LLLS 4311	Survey of Reading
LLLS 4344	Reading & Writing for EC-6
LLLS 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	Geographic Concepts and Skills

Mythology

Choose two courses from:

LITR 3334

L11 K JJJ4	Wythology
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

Prerequisite Courses for Admission to Teacher Education Program (TEP):

EDUC 4310	Theories of Educational Psychology
INST 3313 SILC 4315	Survey of Instructional Technologies Theories of American Pluralism
SIEC 1919	Theories of American Truransin

Pedagogy:

0 0,	
TCED 4331	Social Studies Methods for Grades 4-8
TCED 4378	Pre-Service Internship I
	And
TCED 4978	Pre-Service Internship II
	Or
TCED 4678	Post-Degree Internship I
	And
TCED 4679	Post-Degree Internship II

Other required courses:

SPED 4300	Survey of Exceptionalities
TCED 4103	Senior Seminar for Secondary Social Studies Programs
TCED 4304	Creating Positive Learning Environments in 4-8

POST-BACCALAUREATE TEACHER CERTIFICATION PLAN 4-8 **GENERALIST**

This plan has a content waiver option based on passing the content state assessment on the first attempt. See a School of Education (SoE) adviser for details.

Check prerequisites before enrolling in any courses.

Certification Plan Requirements

Academic Specialization Courses:

LITR 3361 Shakespeare

LLLS 4345 Survey of Children's Literature LLLS 4351 Reading in Content Subjects

Choose one course from:

LITR 3302 Principles of Composition 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 Geographic Concepts and Skills

Choose one course from:

HIST 3301 Ancient World HIST 3307 Medieval Europe

HIST 3309 Renaissance and Reformation Studies in Native American History HIST 4311

Texas and the Borderlands

Colonial America

HIST 3339 HIST 3325 HIST 3327 HIST 3329 The New American Nation 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 Non-Western History

HIST 4035: Course has lower-level equivalent.

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

Prerequisite Courses for Admission to Teacher Education Program (TEP):

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

Pedagogy:

TCED 4978

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

Pre-Service Internship II

Or TCED 4678 Post-Degree Internship I

And TCED 4679 Post-Degree Internship II

Other required courses:

SPED 4300 Survey of Exceptionalities TCED 4100 Senior Seminar EC-12

TCED 4304

Creating Positive Learning Environments in 4-8

POST-BACCALAUREATE TEACHER CERTIFICATION PLAN 4-8 MATHEMATICS

This plan has a content waiver option based on passing the content state assessment on the first attempt. See a School of Education (SoE) 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 4300 Introduction to Modern Algebra and Number Theory

MATH 4344 Introduction to Probability

Choose four courses from:

MATH 4301	History of the Mathematical Sciences
MATH 4312	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 4325	Theory of Models and Applications
MATH 4345	Introduction to Statistics

Prerequisite Courses for Admission to Teacher Education Program (TEP):

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

Or

TCED 4678 Post-Degree Internship I And

TCED 4679 Post-Degree Internship II

Other required courses:

LLLS 4345	Survey of Children's Literature
LLLS 4351	Reading in Content Subjects
SPED 4300	Survey of Exceptionalities
TCED 4100	Senior Seminar EC-12

TCED 4304 Creating Positive Learning Environments in 4-8

POST-BACCALAUREATE TEACHER CERTIFICATION PLAN 4-8 SCIENCE

This plan has a content waiver option based on passing the content state assessment on the first attempt. See a School of Education (SoE) adviser for details.

Check prerequisites before enrolling in any courses.

Certificate Plan Requirements

Academic Specialization Courses:

4 hours of Botany and lab 4 hours of Zoology and lab

4 hours of Physics

BIOL 3307 Cell Biology

BIOL 3333 Environmental Biology BIOL 3341 Molecular Genetics

Choose one course from:

GEOL 3304 Fundamentals of Planetary Geology GEOL 3305 Fundamentals of Earth Science

Prerequisite Courses for Admission to Teacher Education Program (TEP):

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

Or

TCED 4678 Post-Degree Internship I And TCED 4679 Post-Degree Internship II

Other required courses:

LLLS 4345 Survey of Children's Literature
LLLS 4351 Reading in Content Subjects
SPED 4300 Survey of Exceptionalities
TCED 4100 Senior Seminar EC-12

TCED 4304 Creating Positive Learning Environments in 4-8

POST-BACCALAUREATE TEACHER CERTIFICATION PLAN 4-8 SOCIAL STUDIES

This plan has a content waiver option based on passing the content state assessment on the first attempt. See a School of Education (SoE) 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 Geographic Concepts and Skills

HIST 3301 Ancient World

HIST 3339 Texas and the Borderlands HIST 4035: Course has lower-level equivalent.

Prerequisite Courses for Admission to Teacher Education Program (TEP):

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

Or

TCED 4678 Post-Degree Internship I And TCED 4679 Post-Degree Internship II

Other required courses:

LLLS 4345 Survey of Children's Literature LLLS 4351 Reading in Content Subjects SPED 4300 Survey of Exceptionalities TCED 4100 Senior Seminar EC-12

TCED 4304 Creating Positive Learning Environments in 4-8

POST-BACCALAUREATE TEACHER CERTIFICATION PLAN 7-12 ENGLISH LANGUAGE ARTS AND READING

This plan has a content waiver option based on passing the content state assessment on the first attempt. See a School of Education (SoE) 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 4312 Literacy Issues of Secondary Students LLLS 4351 Reading in Content Subjects LLLS 4352 Young Adult Literature and Reading

Choose two courses from:

Mythology Creative Writing LITR 3334 LITR 3371 LITR 4304 Workshop in Poetics LITR 4360 Film as Literature LITR 4301 Literary Theory

LITR 4356 Modern American and British Poetry Modern and Contemporary Drama LITR 4342 LITR 4344 The Modern Novel

LITR 4324 Rise and Development of the British Novel

LITR 4358 Contemporary Poetry

LITR 4370 Tragedy

Comedy LITR 4371 The Literature of Adolescence LITR 4362

LITR 4364 Women in Literature LITR 4368 Literature of the Future

Prerequisite Courses for Admission to Teacher Education Program (TEP):

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

Pedagogy:

LLLS 4364 Methods in Secondary English/Language Arts

TCED 4378 Pre-Service Internship I

And

TCED 4978 Pre-Service Internship II Or

TCED 4678 Post-Degree Internship I

And

TCED 4679 Post-Degree Internship II

Other required courses:

SPED 4300 Survey of Exceptionalities TCED 4100 Senior Seminar EC-12

TCED 4306 Creating Positive Learning Environments in 7-12

POST-BACCALAUREATE TEACHER CERTIFICATION PLAN 7-12 HISTORY

This plan has a content waiver option based on passing the content state assessment on the first attempt. See a School of Education (SoE) 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 Non-Western History

Choose two courses from History electives. Please see an SoE academic adviser.

Prerequisite Courses for Admission to Teacher Education Program (TEP):

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

Pedagogy:

TCED 4678

TCED 4361 Methods in Secondary Social Studies

TCED 4378 Pre-Service Internship I

And

TCED 4978 Pre-Service Internship II

Post-Degree Internship I And

TCED 4679 And Post-Degree Internship II

Other required courses:

LLLS 4312 Literacy Issues of Secondary Students
LLLS 4351 Reading in Content Subjects
SPED 4300 Survey of Exceptionalities
TCED 4100 Senior Seminar EC-12

TCED 4306 Creating Positive Learning Environments in 7-12

POST-BACCALAUREATE TEACHER CERTIFICATION PLAN 7-12 LIFE SCIENCES

This plan has a content waiver option based on passing the content state assessment on the first attempt. See a School of Education (SoE) adviser for details.

Check prerequisites before enrolling in any courses.

Certificate Plan Requirements

Academic Specialization Courses:

4 hours of Botany and lab 4 hours of Zoology and lab 8 hours of Chemistry

BIOL 3341 Molecular Genetics

BIOL 4101 Laboratory Methods in Life Sciences

BIOL 4301 Methods in Life Science

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

Prerequisite Courses for Admission to Teacher Education Program (TEP):

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
	Or
TCED 4678	Post-Degree Internship I
	And
TCED 4679	Post-Degree Internship II

Other required courses:

LLLS 4312	Literacy Issues of Secondary Students
LLLS 4351	Reading in Content Subjects
SPED 4300	Survey of Exceptionalities
TCED 4100	Senior Seminar EC-12

TCED 4306 Creating Positive Learning Environments in 7-12

POST-BACCALAUREATE TEACHER CERTIFICATION PLAN 7-12 MATHEMATICS

This plan has a content waiver option based on passing the content state assessment on the first attempt. See a School of Education (SoE) 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
Algebra Through Technology

MATH 3304 Algebra Through Technology MATH 3305 Euclidian and Non-Euclidian Geometry

MATH 4344 Introduction to Probability

Choose five courses from:

MATH 4301	History of the Mathematical Sciences
MATH 4312	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 4325	Theory of Models and Applications
MATH 4345	Introduction to Statistics

Prerequisite Courses for Admission to Teacher Education Program (TEP):

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
	Or ·

TCED 4678 Post-Degree Internship I

And

TCED 4679 Post-Degree Internship II

Other required courses:

LLLS 4312 Literacy Issues of Secondary Students

LLLS 4351 Reading in Content Subjects
SPED 4300 Survey of Exceptionalities
TCED 4100 Senior Seminar EC-12

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 7-12 SOCIAL STUDIES

This plan has a content waiver option based on passing the content state assessment on the first attempt. See a School of Education (SoE) 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 Geographic Concepts and Skills
HIST 3325 Colonial America
HIST 3330 Civil War and Reconstruction
HIST 4325 Studies in Non-Western History

Prerequisite Courses for Admission to Teacher Education Program (TEP):

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 Or TCED 4678 Post-Degree Internship I

And

TCED 4679 Post-Degree Internship II

Other required courses:

LLLS 4312 Literacy Issues of Secondary Students
LLLS 4351 Reading in Content Subjects
SPED 4300 Survey of Exceptionalities
TCED 4100 Senior Seminar EC-12

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 an EC-12 Special Education teaching certificate to teach at the Elementary level (Grades EC-6), teachers must also earn an EC-6 Generalist, a 4-8 Generalist or a 4-8 content specific teaching certificate. The University of Houston-Clear Lake (UHCL) undergraduate program includes the EC-6 Generalist 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 EC-12 Special Education program. Fully certified teachers can register for the additional TExES as "By Exam Only."

To be "Highly Qualified" for employment with an EC-12 Special Education teaching certificate to teach at the Secondary level (Grades 7-12), teachers must also earn a 4-8 Generalist, a 4-8 content specific teaching certification or an 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://www.tea.state.tx.us/nclb. 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 School of Education (SoE). 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 4738, Pre-Service Internship I; TCED 4978, Pre-Service Internship II and TCED 4668, Pre-Service Internship 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 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 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 SoE 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.

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. SoE advisors 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).
- 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.
- 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, successful completion of MATH 3302 is a prerequisite. For those certifications requiring TCED 4333, successful completion of MATH 1315 is a prerequisite, unless otherwise noted in the catalog. See catalog prerequisites for all pedagogy courses.
- 5. 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.
- 6. 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 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 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. Scores must be submitted by July 15 for fall intern II participants and December 15 for spring intern II participants.

PRE-SERVICE INTERNSHIP II (TCED 4978 OR TCED 4668)

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

- 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. Successful completion of TCED 4100, TCED 4102 or TCED 4103.
- 8. 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 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 School of Education (SoE) TEP is contingent on the following:

- 1. Meeting Basic Skills in Reading, Mathematics & Writing by completing one of the following:
 - 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
 - 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.
 - g. TASP/THEA/Quick THEA TEST Alternative tests (ACCESS, COMPASS, etc.) are not accepted. Submit the following TASP/THEA scores Reading: 260, Writing: 230, Mathematics: 230.
- 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 SOE Forms and Information Section.
- 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 > 2.500 overall or in the last 60 semester credit hours. A GPA will be calculated by the SoE 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. 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.
- 9. Receiving formal approval of the application for admission to the TEP.

Upon acceptance to the TEP, the SoE 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 SoE.

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. 4-8 English Language Arts and Reading
- 2. 4-8 English Language Arts and Reading/Social Studies
- 4-8 Mathematics
- 4. 4-8 Science
- 5. 4-8 Social Studies
- 7-12 English Language Arts and Reading
- 7. 7-12 History
- 8. 7-12 Life Sciences
- 9. 7-12 Mathematics
- 10. 7-12 Social Studies

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: EC-6
 Bilingual Generalist, EC-6 Generalist (Early Childhood Concentration), EC-6 ESL Generalist and
 EC-12 Special Education.
- For the 4-8 Generalist program only: For each domain (English, Mathematics, Science and Social Studies) passed by students on their first attempt on the 4-8 Generalist state assessment, the respective content courses will be waived.

SCHOOL OF HUMAN SCIENCES AND HUMANITIES

The School 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 areas of academic study, as indicated below.

Department of Clinical, Health, and Applied Sciences

- Fitness and Human Performance B.S.
- Registered Nurse to Bachelor of Science in Nursing B.S.N.
- Social Work B.S.W.

Department of Communication and Studio Arts

- Art and Design B.F.A.
- Communication B.A.

Department of Liberal Arts

- History B.A.
- Humanities B.A.
- Literature B.A.

Department of Psychology

- Psychology B.S.
- Women's Studies B.A.

Department of Social and Cultural Sciences

- Anthropology B.S.
- Behavioral Sciences General B.S.
- Criminology B.S.
- Geography B.S.
- Public Service Leadership B.S.
- Sociology B.S.

Certificates

In addition to study in programs leading to major degrees, HSH also offers a number of programrelated certificates, including the following:

- Applied Behavior Analysis
- Composition and Rhetoric
- Fitness and Human Performance
- Professional Writing
- Women's Studies

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 School'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 Geography with 8-12 Social Studies Certification (127 hours), the Bachelor of Arts in History with 8-12 History Certification (127 hours), the Bachelor of Arts in History with 8-12 Social Studies Certification (127 hours), the Bachelor of Arts in Literature with 4-8 Certification (127 hours), and the Bachelor of Arts in Literature with 8-12 Certification (127 hours).

Students who transfer to University of Houston-Clear Lake from a college or university in Texas should have completed a minimum of 54 credit hours, including the 42-hour Texas Core Curriculum. Students who arrive with 60 credit hours, including the Texas Core Curriculum, will complete their degrees by taking 60 hours at UHCL. Students who arrive with fewer than 60 credit hours will be required to take more courses at UHCL to complete the 120-hour requirement.

Requirements for each HSH degree plan are detailed in the following pages.

Academic advising is a key component of students' success. Students should meet with their community college advisors in their first semester to create a transfer plan for moving to UHCL. This will help to ensure that students can complete their plans of study with 120 hours of coursework. Once accepted at UHCL, students must receive academic advising prior to enrolling in courses. Otherwise, students may end up taking more than 120 credit hours 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
Dir., Texas Dept. of Corrections program	Bayou 1617	281-283-3420

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

English Proficiency Requirement

All degree-seeking undergraduate students enrolled in the School of Human Sciences and Humanities are required to demonstrate proficiency in written English. This requirement is fulfilled by passing Advanced Writing (WRIT 3307) with a grade of "C" or better (grades of "C-" or below are not acceptable). In exceptional cases, the recommendation of three full-time faculty members who teach WRIT 3307 will exempt students from this requirement.

HSH Standards of Academic Performance

Standards of Academic Performance may be set by individual programs in the School 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 undergraduate and graduate 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 programs 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 and graduate degrees in various areas of clinical and applied health sciences. At the undergraduate level, CHAS offers a Bachelor of Social Work (BSW) and Bachelor of Science in Fitness and Human Performance (FHP). 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 the curriculum and research areas in strength and conditioning. CHAS also offers the Registered Nurse – Bachelor of Science in Nursing degree.

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 Pre-Physical Therapy, Pre-Physician's Assistant, Pre-Occupational Therapy, and Pre-Chiropractic Medicine concentrations must possess or acquire specific course requirements (see the Pre-PT, Pre-OT, Pre-PA, 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

Or

MATH 1332 Mathematics for Liberal Arts

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.

Creative Arts (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

Social Behavioral Sciences (3 hours)

PSYC 2301 Introduction to Psychology

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.

School of Human Sciences and Humanities (3 hours)

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

Core Requirements

WRIT 3307 Advanced Writing

Major Requirements (48 hours)

External Department Requirement

Choose 1 of:

ANTH 3362 Medicine, Bodies, and Culture GEOG 4301 Urban Geography

SOCI 4358 Crban Geography
Family and Society

Fitness and Human Performance Courses

HLTH 3301 Health, Emergency Care and First Aid HLTH 3315 Health Promotion Programs HLTH 3379 Undergraduate Practicum Physiology of Exercise HLTH 4301 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

HLTH 4308 Resistive Exercise: Theory and Practice
HLTH 4378 Capstone in Fitness and Human Performance

Concentration Area (up to 24 hours)

Choose at least 12 hours (up to 24 hours based on the specific Concentration)

Exercise Science

BIOL 3173 Human Anatomy Laboratory BIOL 3307 Cell Biology BIOL 3373 Human Anatomy BIOL 4241 Laboratory for Physiology BIOL 4341 Biochemistry I BIOL 4342 Biochemistry II

BIOL 4342
BIOL 4345
BIOL 4347
BIOL 4347
Biochemistry II
Human Physiology
Cellular Physiology

HLTH 4391	Selected Topics in Health
HLTH 3316	Applied Kinesiology
PSYC 4316	Brain and Behavior
PSYC 4370	Behavioral Statistics

PSYC 4371 Social Sciences Research Techniques

Health Promotion

ANTH 3362 Medicine, Bodies, and Culture **GEOG 4312** Human Geography HLTH 4391 Selected Topics in Health PSYC 3321 PSYC 3334 PSYC 4314 PSYC 4332 Learning Drugs and Behavior Child Psychology

Introduction to Industrial/Organizational Psychology

PSYC 4356/SOCI The Aging Experience 4356 PSYC 4370 Behavioral Statistics

PSYC 4371 Social Sciences Research Techniques

Pre-Physical Therapy

BIOL 3173 Human Anatomy Laboratory **BIOL 3373** Human Anatomy BIOL 4241 Laboratory for Physiology BIOL 4345 Human Physiology PSYC 4370 Behavioral Statistics

PSYC 4371 Social Sciences Research Techniques

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

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

BIOL 3173	Human Anatomy Laboratory
BIOL 3373	Human Anatomy
CHEM 2323	Organic Chemistry I
CHEM 2325	Organic Chemistry II
HLTH 3316	Applied Kinesiology
PSYC 4316	Brain and Behavior
PSYC 4351	Abnormal Psychology

Pre-Chiropractic Medicine

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

*Note - Elective hours will be used to fulfill deficiencies in prerequisite courses.

Electives (27 hours)

At least 9 hours must be 3000/4000 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 I

and Lab

PHYS 1301 College Physics I

and Lab

College Physics II

PHYS 1302

and Lab

OCI 1201 I I

SOCI 1301 Introduction to Sociology

CHEM 1312 and PHYS 1301 are highly recommended and may be required depending on the concentration chosen.

UHCL FHP contacts: Dr. Terry Dupler, 281-283-3389, dupler@uhcl.edu; or Dr. William Amonette, 281-283-3381, amonette@uhcl.edu.

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 one to two years depending upon their full-time/part-time status. Designed primarily as a didactic program, it allows registered nurses to hone 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. It can open doors not only for those seeking academic progression, but also for those seeking a career 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, it focuses on expanding the horizon of the graduates by giving them a much more extensive background in evidence based practice, patient safety, legal issues, ethical standards, technology integration, as well as healthcare systems and policies. The BSN will also allow students to receive crucial training in key areas like communication, leadership and critical thinking, and gain much needed knowledge to effectively deal with the complex and changing future of health care delivery. In doing so, students will be provided with opportunities to analyze a variety of issues in professional nursing practice that are essential for providing leadership in nursing care across the health care continuum.

The UHCL BSN program will be offered in two distinct format tracks. There will be a Full-Time track for RN-BSN students who are capable of taking a full semester load (12 course credit hours). The other RN-BSN track will be a Part-Time track for those nurses who are working and cannot commit to the 12 credit hours per semester needed to be a full-time student. It is expected that student pursuing the Full-Time track will be able to complete the RN-BSN in 4-5 semesters (summers included). It is anticipated that the majority of the Nursing courses will be offered in the afternoon and early evening time frame.

Applications for acceptance into the BSN program will open generally in the middle to late spring semester. The students accepted for the next Fall class will be notified no later than early June. Application details are on the HSH web page. The typical cohort size will be 30 students.

University Core (42 hours)

Communication (6 hours)

WRIT 1301 Composition I WRIT 1302 Composition II

Mathematics (3 hours)

MATH 1314 College Algebra

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.

Creative Arts (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

Social Behavioral Sciences (3 hours)

Choose ONE course from the core approved list.

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.

In addition to the 42 hours core curriculum, a block of ADN nursing hours will be allowed for transfer.

School of Human Sciences and Humanities (3 hours)

A minimum of 45 hours, including 30 upper-level hours in nursing, must be taken at UHCL.

Major Requirements (30 hours)

Courses

NUKS 3311	History and Theories of Nursing
NURS 3312	Statistical Techniques for Health Professionals
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

Electives (15 hours)

15 additional hours to fulfill the HSH residency requirement.

These hours can be upper-level or lower-level and can be used to fulfill lacking Core Curriculum.

If all Core Curriculum is fulfilled, faculty will determine courses to fulfill these hours.

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-psychosocial approach, professional values, and ethics and skills with diverse persons, families, groups, organizations, and communities utilizing the Planned Change Process.

University Core (42 hours)

Communication (6 hours)

WRIT 1301 Composition I WRIT 1302 Composition II

Mathematics (3 hours)

MATH 1314 College Algebra

MATH 1332 Mathematics for Liberal Arts

Life and Physical Science (6 hours)

BIOL 1306 Biology for Science Majors I Choose 1 additional course from the core approved list.

Language Philosophy and Culture (3 hours)

Choose ONE course from the core approved list.

Creative Arts

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

Social Behavioral Sciences (3 hours)

Grade must be "C" or better.

PSYC 2301 Introduction to Psychology

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.

School 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 (60 hours)

Choose 1 of:

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 Social Conflict and Mediation
Introduction to Women's Studies

4308/PSYC 4308/WMST 4308

WMST 4372/HUMN Seminar in Women's Studies

4372/HUMN

5732/PSYC 4375/PSYC

5732

Sociology Course

Grade must be "C" or better.

SOCI 1301 Introduction to Sociology

Social Work Elective or Course Designated by Major (3000/4000 level)

Overview Requirement - Choose 2 course from a designated list

Program Prerequisites

SWRK 4301 Introduction to Social Work SWRK 4304 Issues and Ethics in Social Work

Program Courses

U	
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

Social Work Internship I

Social Work Internship II

Electives (15 hours)

SWRK 4619

SWRK 4629

Can be any courses at UHCL (1000/2000/3000/4000 level)

Economic and Spanish highly recommended

Other SWRK courses - if available - are also recommended

WOMEN'S STUDIES B.S.W. AND CERTIFICATE OPTION

Students pursuing a B.S.W. degree and who would like to receive an undergraduate certificate in Women's Studies should complete the following courses:

Certificate Requirements

Courses

WMST 4308/HUMN Introduction to Women's Studies

4308/PSYC 4308/WMST 4308

PSYC 4334 Psychology of Women

and in one of the following:

ANTH 4341/SOCI Gender and Sexuality in Global Perspectives

4341/WMST 4341

ANTH 4301 Studies in Cultural Diversity

WMST 4312 Women of Color

WMST 4314 Latina Social Movements in the Americas

Students will need to complete the online "Undergraduate Certificate Registration 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.

DEPARTMENT OF COMMUNICATION AND STUDIO ARTS

The Department of Communication and Studio Arts (CASA) emphasizes creativity and critical thinking in communication and the arts. Students prepare for careers such as fine art to professional writing to graphic design to public relations, in state-of-the-art studios and computer laboratories under the supervision of professors who are nationally and internationally recognized in their fields. 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. 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 plan 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 in the School of Human Sciences and Humanities. This plan includes 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, art history, and all teaching certification at all levels (EC-12). Students often choose the plan to develop creativity and the capacity for critical thinking about visual culture.

There are four distinct and interrelated disciplines within the Art and Design plan: Studio Art, Art History, Graphic Design, and EC-12 Teacher Certification. The Art History concentration prepares students for the technical and theoretical challenges of the professional art world. The Graphics concentration prepares students for the intense visual requirements of today's computer-based design industry. The Studio 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 concentration 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 (60 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 60 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, ARTS 1316 Beginning Drawing, ARTS 2371 Digital Photography, HUMN 3375 Ideas in Transition, PHIL 4314 The Great Philosophers I, PHIL 4315 The Great Philosophers II, WRIT 3037 Advanced Writing, and all 4000-level Art History courses.

Art History Concentration

University Core (42 hours)

Communication (6 hours)

WRIT 1301 Composition I WRIT 1302 Composition II

Mathematics (3 hours)

MATH 1314 College Algebra

Oı

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.

Creative Arts

ARTS 1303 World Art Survey I

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

Additional Coursework (3 hours)

PSYC 1100 Learning Frameworks

Two 1-hour Natural Science Labs - required co-requisites for the chosen science courses.

School 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 (78 hours)

Course Designated by the Major (3000/4000 level)

Course Designated by the Major (3000/4000 level)

Lower-Level Art courses

ARTS 1304 World Art Survey II
ARTS 1311 Design Foundations
ARTS 1312 Design II
ARTS 1316 Beginning Drawing
ARTS 1317 Drawing II
ARTS 2356 Traditional Photography

ARTS 2356 Traditional Photography I

ARTS 2371 Digital Photography I

Upper-Level Art courses

ARTS 4374 Modern Art

ARTS 4370 Gender and Identity in the Visual Arts

Or

ARTS 4376 Studies in Non-Western Art

Studio Requirements

Choose 6 courses from the following:

ARTS 3310 Sculpture ARTS 3330 Color

ARTS 3335 Intermediate Painting

ARTS 4332 Life Drawing

ARTS 4340 Advanced Printmaking ARTS 4350 Advanced Photography ARTS 4351 Digital Photography II

ARTS Elective

Choose a 3000/4000 level course with the approval of the faculty advisor.

Art History Concentration Requirement

Choose 8 Art History courses from a designated list.

Graphics 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

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.

Creative Arts

ARTS 1303 World Art Survey I

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

Additional Coursework (3 hours)

PSYC 1100 Learning Frameworks

Two 1-hour Natural Science Labs - required co-requisites for the chosen science courses.

School 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 (78 hours)

Course Designated by the Major (3000/4000 level)

Course Designated by the Major (3000/4000 level)

World Art Survey II

Lower-Level Art courses

ARTS 1304

ARTS 1311	Design Foundations
ARTS 1312	Design II
ARTS 1316	Beginning Drawing
ARTS 1317	Drawing II
ARTS 2356	Traditional Photography
ARTS 2371	Digital Photography I

Upper-Level Art courses

ARTS 4358 History and Theory of Graphic Design ARTS History - any 4000 level Art History course.

Studio Requirements

ARTS 3330	Color
ARTS 3360	Graphic Design
ARTS 4332	Life Drawing
ARTS 4351	Digital Photography II

Graphic Concentration Requirements

Choose 10 courses from a designated list of 3000/4000 level Art and Communication courses.

Seminar course

Taken during the final semester.

ARTS 4390 Senior Seminar in Art

Studio Concentration

University Core (42 hours)

Communication (6 hours)

WRIT 1301 Composition I WRIT 1302 Composition II

Mathematics (3 hours)

MATH 1314 College Algebra

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.

Creative Arts

ARTS 1303 World Art Survey I

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

Additional Coursework (3 hours)

PSYC 1100 Learning Frameworks

Two 1-hour Natural Science Labs - required co-requisites for the chosen science courses.

School 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 (78 hours)

Course Designated by the Major (3000/4000 level)

Lower-Level Art courses

ARTS 1304	World Art Survey II
ARTS 1311	Design Foundations
ARTS 1316	Beginning Drawing
ARTS 2316	Beginning Painting
ARTS 2356	Traditional Photography
ARTS 2371	Digital Photography I

Art History Elective

Art History Elective - 4000 level Art History Elective - 4000 level

Studio Requirements

ARTS 3310 Sculpture ARTS 4332 Life Drawing COMM 3360 Web Design

Seminar course

ARTS 4390 Senior Seminar in Art

Studio Concentration Requirements

Choose 7 Art courses with the advice of faculty advisor - 3000/4000 level.

ART Electives

Choose 4 Art courses - 3000/4000 level.

Electives (3 hours)

Choose one course (any 3000/4000 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

In addition, three additional courses must be taken from the following list:

ARTS 4369 Illustration

ARTS 2371 Digital Photography I ARTS 3365 3D Computer Modeling

ARTS 4352 Digital Video ARTS 4392 Arts Internship COMM 3360 Web Design

ART AND DESIGN B.F.A. WITH EC-12 ART CERTIFICATION

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

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.

Creative Arts (3 hours)

ARTS 1303 World Art Survey I

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.

Component Area Option (6 hours)

COMM 1315 Public Speaking PSYC 1100 Public Speaking Learning Frameworks

Two 1-hr Life/Physical Science Labs

School of Human Sciences and Humanities (6 hours)

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

Core Requirement (3 hours)

WRIT 3307 Advanced Writing

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 The Great Philosophers II PHIL 4315 ARTS 4XXX 4000-Level Art History Elective

Art History elective is in addition to one required in major.

School of Education Requirements (18 hours)

Core Requirement

EDUC 4310 Theories of Educational Psychology INST 3313 SILC 4315 Survey of Instructional Technologies 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, INST 3313 Survey of Instructional Technologies, & SILC 4315 Theories of American Pluralism).
- Completion of Public Speaking requirement.
- Completion of Basic Skills in Reading, Mathematics, and Writing.
- 2.750 GPA overall or in the last 60 semester credit hours.
- Completion of 12 semester credit hours in the subject-specific content area for target teacher certification.
- Application for admission to the Teacher Education Program (TEP).

Major Requirements (43 hours)

Courses

ARTS 1304 World Art Survey II ARTS 1311 Design Foundations ARTS 1316 Beginning Drawing ARTS 2356 Traditional Photography ARTS 2371 Digital Photography I ARTS 3310 Sculpture ARTS 3320 Ceramics

ARTS 3331 Intermediate Drawing ARTS 3335 Intermediate Painting ARTS 3340 Intermediate Printmaking

ARTS 3360 Graphic Design

ARTS 4302 Crafts Design and History ARTS 4XXX 4000-Level Art History Elective LLLS 4351 Reading in Content Subjects TCED 4100 Senior Seminar EC-12

GPA of 2.500 or higher required in ARTS and LLLS coursework.

Pedagogy Requirements 18 hours

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

- Enrollment in the courses listed above requires admission to the TEP.
- 3.000 GPA required in Pedagogy coursework.
- TCED 4378 Pre-Service Internship I must be taken in the long semester immediately preceding the final semester.

• TCED 4978 Pre-Service Internship II must be taken in the final semester.

Teacher Certification Requirements

- Passing scores on the appropriate state assessments (Texas Examinations of Educator Standards [TExES] are required for recommendation for teacher certification.)
 - EC-12 Art TExES #178
 - EC-12 Pedagogy and Professional Responsibilities TExES #160
- All courses outside the University Core must be "C-" or better.

COMMUNICATION B.A.

The undergraduate plan 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 program 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 60 upper-level credit hours. Because degree plans are subject to change, all students should meet with their faculty advisor 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 can enroll in any 4000-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 to the program.

For additional information about the GSP test/tutorial/test date, 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/HSH/HOME/HSH%20Programs/Communication, . Contact information for the Communication Association is located on the program's website. 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

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.

Creative Arts

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

Social Behavioral Sciences (3 hours)

Choose ONE course from the core approved list.

Public Speaking (3 hours)

COMM 1315 Public Speaking

Additional Coursework (3 hours)

Two 1-hour Natural Science Labs - required co-requisites for the chosen science courses.

School of Human Sciences and Humanities (3 hours)

Learning Frameworks

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

Core Requirement

WRIT 3307 Advanced Writing

Major Requirements (51 hours)

Choose 2 courses from any 3000/4000 level ANTH, PHIL, PSYC, SOCI

Courses

ARTS 2371 Digital Photography I
COMM 1307 Introduction to Mass Communication
COMM 3320 Integrated Marketing Communication
Media Writing
COMM 3352 Media Law
COMM 4358 Publication Design
COMM 3360 Web Design

Capstone Requirement (senior year GSP must first be passed)

COMM 4061 Communication Portfolio
COMM 4379 Communication Internship

COMM 4655 Media Production

Communication Electives

Choose 5 courses from a designated list (3000/4000 level)

Sign Notification Form

Pass GSP Test

Electives (24 hours)

12 hours must be 3000/4000 level 12 hours can be 1000/2000 level

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 plan in History leads to the Bachelor of Arts (B.A.) degree. The plan is broadly conceived to include all aspects of human development and heritage: political, social, religious, cultural, or philosophical. The undergraduate degree plan in History is not limited to history courses but should

draw from the entire range of related disciplines including anthropology, art, government, and

Students who plan to teach history and/or government at the secondary school level should select this plan area. For additional information, contact the HSH Advising Coordinator.

There are no specific prerequisites for admission to this plan 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

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.

Creative Arts (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 Federal Government

Social Behavioral Sciences (3 hours)

Choose ONE course from the core approved list.

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.

School 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 (33 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

World Prehistory and Archaeology ANTH 4352

PSYC 4311/SOCI 4311 Social Psychology SOCI 3351 Political Sociology SOCI 4322 Theories of Society

History courses

European History (3000/4000 level)

European History (3000/4000 level)

American History (3000/4000 level)

American History (3000/4000 level)

American History (3000/4000 level)

Latin American History (3000/4000 level)

History Elective (3000/4000 level course)

History Elective (3000/4000 level course)

History Elective (3000/4000 level course)

Electives (42 hours)

18 hours General Electives - can be lower (1000/2000) level

24 hours must be upper-level - any 3000/4000 level courses at UHCL

HISTORY B.A. WITH 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

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.

Creative Arts (3 hours)

Choose ONE course from the core approved list.

U.S. History (6 hours)

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

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 Public Speaking Learning Frameworks

Two 1-hr Life/Physical Science Labs

School of Human Sciences and Humanities (9 hours)

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

Core Requirement (3 hours)

WRIT 3307 Advanced Writing

Advanced Writing - Grade of "B-" or better is required.

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

Human Science Requirement (3 hours)

Choose ONE course from the following list:

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

PSYC 4311/SOCI 4311 Social Psychology SOCI 3351 Political Sociology SOCI 4322 Theories of Society

School 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, INST 3313 Survey of Instructional Technologies, & SILC 4315 Theories of American Pluralism).
- Completion of Public Speaking requirement.
- · Completion of Basic Skills in Reading, Mathematics, and Writing.
- 2.750 GPA overall or in the last 60 semester credit hours.
- Completion of 12 semester credit hours in the subject-specific content area for target teacher certification.
- Application for admission to the Teacher Education Program (TEP).

Major Requirements (43 hours)

Courses

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 THREE History Electives (3000/4000 level)

Choose ONE Economics course from the following list:

ECON 2301 Principles of Macroeconomics

0

ECON 2302 Principles of Microeconomics
LLLS 4351 Reading in Content Subjects
TCED 4100 Senior Seminar EC-12

TCED 4306 Creating Positive Learning Environments in 7-12
 GPA of 2.500 or higher required in HIST and LLLS coursework.

Pedagogy Requirements 15 hours

TCED 4361 Methods in Secondary Social Studies

TCED 4378 Pre-Service Internship I TCED 4978 Pre-Service Internship II

- Enrollment in the courses listed above requires admission to the TEP.
- 3.000 GPA required in Pedagogy coursework.
- TCED 4378 Pre-Service Internship I must be taken in the long semester immediately preceding the final semester.
- TCED 4978 Pre-Service Internship II must be taken in the final semester.

Teacher Certification Requirements

- Passing scores on the appropriate state assessments (Texas Examinations of Educator Standards [TExES] are required for recommendation for teacher certification.)
 - 7-12 History TExES #233
 - EC-12 Pedagogy and Professional Responsibilities TExES #160
- All courses outside the University Core must be "C-" or better.

HISTORY B.A. WITH 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.

Language Philosophy and Culture (3 hours)

Choose ONE course from the core approved list.

Creative Arts (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

Social Behavioral Sciences (3 hours)

Choose ONE course from the core approved list.

Component Area Option (6 hours)

COMM 1315 Public Speaking PSYC 1100 Public Speaking Learning Frameworks

Two 1-hr Life/Physical Science Labs

School of Human Sciences and Humanities (9 hours)

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

Core Requirement (3 hours)

WRIT 3307 Advanced Writing

Advanced Writing - Grade of "B-" or better is required.

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

Human Science Requirement (3 hours)

Choose ONE course from the following list:

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

PSYC 4311/SOCI 4311 Social Psychology SOCI 3351 Political Sociology SOCI 4322 Theories of Society

School 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, INST 3313 Survey of Instructional Technologies, & SILC 4315 Theories of American Pluralism).
- Completion of Public Speaking requirement.
- · Completion of Basic Skills in Reading, Mathematics, and Writing.

- 2.750 GPA overall or in the last 60 semester credit hours.
- Completion of 12 semester credit hours in the subject-specific content area for target teacher certification.
- Application for admission to the Teacher Education Program (TEP).

Major Requirements (37 hours)

Courses

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 TWO History Electives (3000/4000 level)

Choose ONE Economics course from the following list:

ECON 2301 Principles of Macroeconomics
Or
ECON 2302 Principles of Microeconomics
HIST 3301 Ancient World
LLLS 4351 Reading in Content Subjects
TCED 4100 Senior Seminar EC-12

TCED 4306 Creating Positive Learning Environments in 7-12
 GPA of 2.500 or higher required in HIST and LLLS coursework.

Pedagogy Requirements 15 hours

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

- Enrollment in the courses listed above requires admission to the TEP.
- 3.000 GPA required in Pedagogy coursework.
- TCED 4378 Pre-Service Internship I must be taken in the long semester immediately preceding the final semester.
- TCED 4978 Pre-Service Internship II must be taken in the final semester.

Teacher Certification Requirements

- Passing scores on the appropriate state assessments (Texas Examinations of Educator Standards [TExES] are required for recommendation for teacher certification.)
 - 7-12 Social Studies TExES #232
 - EC-12 Pedagogy and Professional Responsibilities TExES #160
- All courses outside the University Core must be "C-" or better.

HUMANITIES B.A.

The B.A. in Humanities provides students with a strong pre-professional education in the liberal arts. The degree 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 of business.

Humanities students develop skills in analytical thinking, critical analysis, interpretive ability, and written expression. Additionally, our cross-disciplinary and cross-cultural approach uniquely prepares graduates to engage in today's global environment.

Concentrations include art history, film studies, global studies, healthcare ethics, history, literature, philosophy, pre-law, and religious studies. Through coursework in the concentrations, students gain 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

Life and Physical Science (6 hours)

Choose TWO courses from the core approved list.

Language Philosophy and Culture (3 hours)

HUMN 1301 Humanities

Creative Arts (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

Social Behavioral Sciences (3 hours)

Choose ONE course from the core approved list.

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.

School 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 (66 hours)

Choose one course from:

HUMN 3374 Critical Inquiry

PHIL 4314 The Great Philosophers I PHIL 4315 The Great Philosophers II

One course outside the program that relates to concentration areas (3000/4000 level)

Philosophy course

PHIL 1301 Introduction to Philosophy (or a 3000/4000 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 concentrations. Students who complete a concentration will receive a certificate. For more information, contact a full-time Humanities faculty member. Concentration areas are listed below.

Humanities courses

HUMN 3375 Ideas in Transition HUMN 4375 Senior Seminar

Electives (9 hours)

9 hours electives can be any 1000/2000/3000/4000 level courses.

Choose 3 Concentration Areas (15 hours)

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 or by approval).

Concentration 2: History

Choose five history classes (HIST rubric or by approval).

Concentration 3: Art History

Choose five art history classes (ARTS rubric art history courses or by approval).

Concentration 4: Philosophy

Choose five philosophy classes (PHIL rubric or by approval).

Suggested classes:

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 must be "An Introduction to Indian Cinema."

COMM 1307	Introduction to Mass	Communication

COMM 4301 Global Issues in Film

COMM 4354 Video Production and Editing

COMM 4355 Advanced Video Production and Editing

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 4326 Studies in Film Selected Topics in Humanities

LITR 4360 Film as Literature

Concentration 6: Pre-Law

Choose five of the following classes:

ANTH 3352 Political/Economic Anthropology

ANTH 4341/SOCI Gender and Sexuality in Global Perspectives

4341/WMST 4341

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 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 Social Conflict and Mediation

SOCI 4332 Sociology of Law SOCI 4355 Minorities in America SOCI 4331/CRIM 4331 Prison and Society Crisis Intervention

SOCI 4342 Human Rights and Social Justice

WMST 4316/SOCI Women and the Law

4316

Concentration 7: Global Studies

Choose five of the following classes:

*Note: HUMN 4391 should focus on Global Theories, Indian Cinema, or World Geography.

ANTH 3355
ANTH 3358
Topics in Asian Studies
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
GEOG 4317
International Political Economy

HIST 3311 Revolutionary Europe
HIST 3313 Modern Europe
HIST 3321 Modern Latin America
HIST 3323 History of Mexico
HIST 3338 Women in European History

THOT (202 Wollieff III European Filsto

HIST 4303 Reel Europe HIST 4307 Holocaust: Histor

HIST 4307 Holocaust: History, Literature, and Film HIST 4309 Studies in Latin American History 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:

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

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
PSYC 4375 The Aging Experience
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 plan in Literature leads to the Bachelor of Arts (B.A.) degree. Students in the plan 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 plan area. 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

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.

Creative Arts

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

Social Behavioral Sciences (3 hours)

Choose ONE course from the core approved list.

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.

School 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 (36 hours)

Choose one course from:

HUMN 3374 Critical Inquiry **HUMN 3375** Ideas in Transition Ethics

PHIL 3331 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 PSYC 4311/SOCI 4311 Theories of Personality

Social Psychology

SOCI 4312 Social Structure: Class, Power, and Status

SOCI 4322 Theories of Society

WMST 4308/HUMN Introduction to Women's Studies

4308/PSYC 4308/WMST 4308

Literature courses

Literature - 2000-level British, American, or World

Literature - 2000-level British, American, or World

American Literature - 3000/4000 level

British Literature - any 3000/4000 level

British Literature - Pre-1700 at the 3000/4000 level

World or Multicultural Literature - 3000/4000 level

Pre-1800 Literature - 3000/4000 level

Literature Elective - 3000/4000 level

Literature Elective - 3000/4000 level

Electives (39 hours)

Lower-level electives

COMM 1000/2000 level (3 hours)

PHIL 1000/2000 level (3 hours)

Fine Arts 1000/2000 level (3 hours)

General Electives 1000/2000 (3 hours)

Upper-level electives

27 hours must be upper-level - any 3000/4000 level courses at UHCL

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

Language Philosophy and Culture (3 hours)

Choose ONE course from the core approved list.

Creative Arts (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

Social Behavioral Sciences (3 hours)

Choose ONE course from the core approved list.

Component Area Option (6 hours)

COMM 1315 Public Speaking PSYC 1100 Public Speaking Learning Frameworks

Two 1-hr Life/Physical Science Labs

School of Human Sciences and Humanities (9 hours)

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

Core Requirement (3 hours)

WRIT 3307 Advanced Writing

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

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 Introduction to Women's Studies 4308/PSYC

4308/WMST 4308

School of Education Requirements (18 hours)

Core Requirement

EDUC 4310 Theories of Educational Psychology INST 3313 Survey of Instructional Technologies 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, INST 3313 Survey of Instructional Technologies, & SILC 4315 Theories of American Pluralism).
- 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).

Major Requirements (55 hours)

Courses

LITR 2000-level American or British Literature

LITR 2000-level American or British Literature

Choose ONE American Literature course (3000/4000 level)

Choose ONE British Literature course (3000/4000 level)

Choose ONE British Literature (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

LLLS 4311 Survey of Reading

LLLS 4346 Teaching Language Arts in the 4-8 Classroom

LLLS 4351 Reading in Content Subjects
MATH 1350 Fundamentals of Math I
MATH 1351 Fundamentals of Math II
TCED 4100 Senior Seminar EC-12

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 LLLS coursework.

Pedagogy Requirements 12 hours

TCED 4378 Pre-Service Internship I TCED 4978 Pre-Service Internship II

- Enrollment in the courses listed above requires admission to the TEP.
- 3.000 GPA required in Pedagogy coursework.
- TCED 4378 Pre-Service Internship I must be taken in the long semester immediately preceding the final semester.
- TCED 4978 Pre-Service Internship II must be taken in the final semester.

Teacher Certification Requirements

- Passing scores on the appropriate state assessments (Texas Examinations of Educator Standards [TExES] are required for recommendation for teacher certification.)
 - 4-8 English Language Arts and Reading TExES #117
 - EC-12 Pedagogy and Professional Responsibilities TExES #160
- All courses outside the University Core must be "C-" or better.

To be "Highly Qualified" for employment to teach at the Elementary level (Grades EC-6), teacher candidates must pass an EC-6 Generalist or 4-8 Generalist TExES examination. Candidates may take a TExES Generalist 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. Then they may apply at the SBEC/TEA website as "Certification by Examination" to add the Generalist certificate. Contact TEA's NCLB office for further information at 512-463-9374 or http://ritter.tea.state.tx.us/taa/stanprog012210a.html.

LITERATURE B.A. WITH 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

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.

Creative Arts (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

Social Behavioral Sciences (3 hours)

Choose ONE course from the core approved list.

Component Area Option (6 hours)

COMM 1315 **Public Speaking** Learning Frameworks PSYC 1100

Two 1-hr Life/Physical Science Labs

School of Human Sciences and Humanities (9 hours)

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

Core Requirement (3 hours)

WRIT 3307 Advanced Writing

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

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 Social Psychology PSYC 4311/SOCI 4311

Social Structure: Class, Power, and Status SOCI 4312

SOCI 4322 Theories of Society

Introduction to Women's Studies WMST 4308/HUMN

4308/PSYC 4308/WMST 4308

School of Education Requirements (18 hours)

Core Requirement

EDUC 4310 Theories of Educational Psychology INST 3313 Survey of Instructional Technologies Theories of American Pluralism SILC 4315 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, INST 3313 Survey of Instructional Technologies, & SILC 4315 Theories of American Pluralism).
- Completion of Public Speaking requirement.
- Completion of Basic Skills in Reading, Mathematics, and Writing.
- 2.750 GPA overall or in the last 60 semester credit hours.
- Completion of 12 semester credit hours in the subject-specific content area for target teacher certification.
- Application for admission to the Teacher Education Program (TEP).

Major Requirements (52 hours)

Courses

LITR 2000-level American or British Literature

LITR 2000-level American or British Literature

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
LLLS 4313	Corrective and Remedial Reading
LLLS 4332	Diagnostic and Prescriptive Reading
LLLS 4352	Young Adult Literature and Reading
TCED 4100	Senior Seminar EC-12
TCED 4306	Creating Positive Learning Environments in 7-12

• GPA of 2.500 or higher required in LITR and LLLS coursework.

Pedagogy Requirements 15 hours

LLLS 4364 Methods in Secondary English/Language Arts

TCED 4378 Pre-Service Internship I TCED 4978 Pre-Service Internship II

- Enrollment in the courses listed above requires admission to the TEP.
- 3.000 GPA required in Pedagogy coursework.
- TCED 4378 Pre-Service Internship I must be taken in the long semester immediately preceding the final semester.
- TCED 4978 Pre-Service Internship II must be taken in the final semester.

Teacher Certification Requirements

- Passing scores on the appropriate state assessments (Texas Examinations of Educator Standards [TExES] are required for recommendation for teacher certification.)
 - 7-12 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.

Passing Scores on the Appropriate State Assessments

8-12 English Language Arts and Reading TExES #131

8-12 Pedagogy and Professional Responsibility TExES #130

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 degree are guided by the suggested curricula of the American Psychological Association and developed by our faculty for optimum learning in the classroom, laboratory, and applied settings. Faculty expertise and course requirements within the majors 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 students who complete their degrees will have a liberal arts orientation with focus on Psychology.

The Women's Studies degree at UHCL offers a Bachelor of Arts as well as certificates at the undergraduate and graduate levels. 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 toward the empowerment of women and girls.

PSYCHOLOGY B.S.

The undergraduate General Psychology Program at UHCL provides quality curricula that meet 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

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.

Creative Arts

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

Social Behavioral Sciences (3 hours)

Choose ONE course from the core approved list.

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.

School 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)

One course chosen 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

Psychology courses

PSYC 2301 Introduction to Psychology
PSYC 3311 Careers and Writing in Psychology
PSYC 4370 Behavioral Statistics
PSYC 4371 Social Sciences Research Techniques

PSYC 4392 Capstone in Psychology

PSYC 3311 Careers and Writing must be taken during the first semester of the junior year.

PSYC 4392 Capstone in Psychology must be taken during the final semester.

Diversity Requirement

Choose two courses from a designated list (all are at the 3000/4000 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

Choose one of:

SOCI 4312 Social Structure: Class, Power, and Status

SOCI 4322 Theories of Society

Psychology course

PSYC 3315 Psychological Thinking

Psychology Core Requirements

Choose 3 courses from 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

Psychology Required Electives (2 courses)

Choose any 3000/4000 level Psychology courses.

Electives (27 hours)

Up to 15 hours could be lower-level electives (any 1000/2000 level courses)

12 hours must be upper-level (any 3000/4000 level courses)

APPLIED BEHAVIOR ANALYSIS CERTIFICATE (UNDERGRADUATE)

The Applied Behavior Analysis Certificate is designed for individuals who would like to complete the coursework required to sit for the Board Certified Assistant Behavior Analyst examination. Students wishing to receive this certificate must formally apply. To qualify to sit for the examination, students must also fulfill a supervised experience requirement. More information can be found at www.bacb.com. Additional information may be obtained by contacting the director of the Behavior Analysis program.

Certificate Requirements

The certificate will be granted upon completion of the following courses with a grade of "B-" or better:

PSYC 3321 Learning

PSYC 4321 Applied Behavior Analysis I PSYC 4322 Applied Behavior Analysis II

WOMEN'S STUDIES B.A.

The baccalaureate program 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 program 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 is to relate women's issues to analyses of social factors such as ethnicity, race, class, and sexual orientation both within the U.S. and globally.

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.

Creative Arts (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

Social Behavioral Sciences (3 hours)

Choose ONE course from the core approved list.

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.

School 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)

Course Designated by the Major (3000/4000 level)

Course Designated by the Major (3000/4000 level)

Women's Studies Courses

WMST 1301 Gender Matters

WMST 4308/HUMN Introduction to Women's Studies

4308/PSYC

4308/WMST 4308

WMST 4312 WMST 4372/HUMN Women of Color

Seminar in Women's Studies

4372/HUMN 5732/PSYC 4375/PSYC

5732

Women's Studies Core: Choose 5 courses from:

Choose 5 courses from

ANTH 4341/SOCI Gender and Sexuality in Global Perspectives

4341/WMST 4341 HIST 3338 Women in European History HIST 3341/WMST Women in American History

3341 History of Feminism

HIST 4329/WMST

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 (3000/4000 level).

Diversity Requirement-U.S.

Choose one course from a designated list (3000/4000 level).

Electives (36 hours)

Unspecified electives chosen from ANTH, HUMN, PSYC, SOCI, and WMST

15 hours chosen from 1000/2000/3000/4000 level courses

21 hours must be chosen from 3000/4000 level courses

WOMEN'S STUDIES CERTIFICATE

Women's Studies is an interdisciplinary curriculum administered by the School 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 plans in literature, history, humanities, anthropology, sociology, and psychology. Women's Studies courses fulfill plan requirements in several of these areas.

Students also may complete a certificate in Women's Studies.

Inquiries should be addressed to the director of Women's Studies.

Certificate Requirements (9 hours)

Undergraduate: Nine hours of Women's Studies courses in any combination.

Introduction to Women's Studies

One of the following courses is highly recommended:

WMST 4308/HUMN

4308/PSYC

4308/WMST 4308

WMST 4372/HUMN

Seminar in Women's Studies

4372/HUMN 5732/PSYC 4375/PSYC 5732

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 spans 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 that foster 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 globally. Through coursework students explore world cultures and global challenges as well as methods for studying peoples and cultures in the world. The program 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 program 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

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.

Creative Arts

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

Social Behavioral Sciences (3 hours)

Choose ONE course from the core approved list.

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.

School 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 and HUMN 3375 Ideas in Transition are strongly recommended.

Choose one from:

ANTH 4372 Applied Qualitative Methods
PSYC 4371 Social Sciences Research Techniques
ANTH 4372 Qualitative Methods is strongly recommended.

Choose one from:

GEOG 4321 Fundamentals of Geographic Information Systems

PSYC 4370 Behavioral Statistics

SOCI 4384 Statistics

Diversity Requirement

Choose 2 courses from a designated list (3000/4000 level)

Anthropology Course

ANTH 3311 Contemporary Cultural Anthropology

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 2 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	Gender and Sexuality in Global Perspectives

4341/WMST 4341 ANTH 4342 Human Rights and Social Justice

ANTH 4351/ANTH Families, Communities, and Globalization

5531/PSYC 5535/SOCI

5535

ANTH 4352 World Prehistory and Archaeology

ANTH 4364 Visual Anthropology

Area Requirement

Choose 2 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
AN I H 4334	Native Americans

Required Anthropology Electives

2 ANTH courses (3 hours must be 3000/4000 level)

Concentration Note

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.

Electives (33 hours)

Electives from ANTH, HUMN, and SOCI are recommended (15 hours could be from 1000/2000-level)

18 hours from any 3000/4000 level courses

Anthropology Concentration Areas

International and Global Studies

(select three of the following courses)

ANTH 3355	Topics in Asian Studies
ANTH 3358	Topics in Middle Eastern Societies
ANTH 4333	Peoples of Mexico and Central America
ANTH 4334	Native Americans
GEOG 1302	Global 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: (when topic is 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 ANTH 4351/ANTH

Gender and Sexuality in Global Perspectives Families, Communities, and Globalization

5531/PSYC 5535/SOCI

5535

WMST 4314 Latina Social Movements in the Americas

ANTH 4031: (when topic is Violence Against Women and/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 4031: (when topic is Public Culture and/or Violence Against Women)

BEHAVIORAL SCIENCES B.S. - GENERAL

The undergraduate plan in Behavioral Sciences leads to the Bachelor of Science (B.S.) degree. This plan allows students to combine courses from an array of disciplines including anthropology, criminology, geography, psychology, social work, and sociology into one degree. 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. The choice is made based on the student's academic and career goals. Students are assigned an advisor 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

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.

Creative Arts

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

Social Behavioral Sciences (3 hours)

Choose ONE course from the core approved list.

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.

School 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 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 Social Sciences Research Techniques

SOCI 4385 Research Methods

Diversity Requirement

Choose two courses from a designated list of 3000/4000-level options.

Choose 3 of the following courses:

ANTH 3311 Contemporary Cultural Anthropology

GEOG 4312 Human Geography PSYC 3331 Theories of Personality

O

PSYC 4311/SOCI 4311 Social Psychology

SOCI 4312 Social Structure: Class, Power, and Status

Or

SOCI 4322 Theories of Society

Concentration Note

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 Behavioral Science faculty member. Concentration areas may be found below.

Electives (33 hours)

18 hours could be lower-level electives (any 1000/2000 level courses)

15 hours must be upper-level (any 3000/4000 level courses)

Behavioral Science Concentration Areas

Choose 9 hours out of 2 of the following 6 categories. These courses cannot fulfill any other requirement.

Anthropology

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
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ANTH 4334 Native Americans

ANTH 4341/SOCI Gender and Sexuality in Global Perspectives 4341/WMST 4341

ANTH 4342 Human Rights and Social Justice

ANTH 4351/ANTH Families, Communities, and Globalization

5531/PSYC 5535/SOCI

5535

ANTH 4352 World Prehistory and Archaeology

ANTH 4364 Visual Anthropology

Criminology

CRIM 3312/SOCI 3312	Criminology
CRIM 4313/SOCI 4313	Juvenile Delinquency
CRIM 4331/SOCI 4331	Prison and Society
CRIM 4334/CRIM	Criminal Law
5338/SOCI 4334/SOCI	

5338

CRIM 4338 Policing and Society

Geography

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	International Political Economy

Learning

Psychology

1010 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

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	Social Conflict and Mediation
SOCI 4341/ANTH	Women in Society
4341/WMST 4341	•
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 Women's Health and Sexuality

4335

Social Work

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

CRIMINOLOGY B.S.

The undergraduate plan in Criminology leads to the Bachelor of Science (B.S.) degree. The academic goal of the plan 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 careers 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.

Creative Arts

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

Social Behavioral Sciences (3 hours)

Choose ONE course from the core approved list.

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.

School 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

Criminal Law

CRIM 1301 Introduction to Criminal Justice

CRIM 3312/SOCI Criminology

3312

CRIM 4335 Race and Justice CRIM 4313/SOCI Juvenile Delinquency

4313

CRIM 4331/SOCI Prison and Society 4331

CRIM 4334/CRIM 5338/SOCI 4334/SOCI

5338

CRIM 4338 Policing and Society

CRIM 4384 Statistics CRIM 4385 Research Methods

CRIM 4391 Selected Topics in Criminology

CRIM Elective (any 3000/4000 CRIM course) CRIM Elective (any 3000/4000 CRIM course) CRIM Elective (any 3000/4000 CRIM course)

PSYC 4311/SOCI 4311 Social Psychology

O

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 1000/2000 level courses)

12 hours must be upper-level (any 3000/4000 level courses)

GEOGRAPHY B.S.

The Geography Program offers two undergraduate degrees, a Bachelor of Science and a Bachelor of Science with 7-12 Social Studies Certification.

All students complete a core within geography that provides a broad background in the discipline and prepares them for pursuing the Geography degree. The Bachelor of Science emphasizes proficiency in human geography and human/environment interactions and develops skills in geospatial technologies. Students are encouraged to develop with their advisor an individualized program of study within this degree. The Bachelor of Science with 7-12 Social Studies Certification prepares future social studies teachers. In addition to a core of geography courses, the degree plan requires education courses that lead to certification.

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.

Creative Arts (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

Social Behavioral Sciences (3 hours)

Choose ONE course from the core approved list.

Cannot choose GEOG 1303 World Regional Geography

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.

School 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 (36 hours)

Any 3000/4000-level course chosen from ARTS, COMM, HIST, HUMN, LITR, PHIL, or WRIT

Sociology Course

SOCI 4384 Statistics

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 International Political Economy

GEOG 4321 Fundamentals of Geographic Information Systems
GEOG 4323 Advanced Geographic Information Systems

Electives (39 hours)

Hours chosen in consultation with faculty advisor.

GEOGRAPHY B.S. WITH 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

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.

Creative Arts (3 hours)

Choose ONE course from the following:

ECON 2301 Principles of Macroeconomics **ECON 2302** Principles of Microeconomics

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.

Component Area Option (6 hours)

Public Speaking COMM 1315 PSYC 1100 Learning Frameworks

Two 1-hr Life/Physical Science Labs

School of Human Sciences and Humanities (6 hours)

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

Core Requirement (3 hours)

Advanced Writing

Advanced Writing - Grade of "B-" or better is required.

Human Science Requirement (3 hours)

Choose ONE course from the following list:

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

PSYC 4311/SOCI 4311 Social Psychology SOCI 3351 Political Sociology SOCI 4322 Theories of Society

School 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, INST 3313 Survey of Instructional Technologies, & SILC 4315 Theories of American Pluralism).
- Completion of Public Speaking requirement.
- Completion of Basic Skills in Reading, Mathematics, and Writing.
- 2.750 GPA overall or in the last 60 semester credit hours.
- Completion of 12 semester credit hours in the subject-specific content area for target teacher certification.
- Application for admission to the Teacher Education Program (TEP).

Major Requirements (46 hours)

Courses

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	Geographic Concepts and Skills
GEOG 4317	International Political Economy
GEOG 4321	Fundamentals of Geographic Information Systems
HIST 4305	Nazi Cinema and Third Reich
	Two History Electives
LLLS 4351	Reading in Content Subjects
TCED 4100	Senior Seminar EC-12
TCED 4306	Creating Positive Learning Environments in 7-12
CDA (2.500	1.1 · 1. CEOC LINCE

• GPA of 2.500 or higher required in GEOG and HIST coursework.

Pedagogy Requirements 15 hours

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

- Enrollment in the courses listed above requires admission to the TEP.
- 3.000 GPA required in Pedagogy coursework.
- TCED 4378 Pre-Service Internship I must be taken in the long semester immediately preceding the final semester.
- TCED 4978 Pre-Service Internship II must be taken in the final semester.

Teacher Certification Requirements

- Passing scores on the appropriate state assessments (Texas Examinations of Educator Standards [TExES] are required for recommendation for teacher certification.)
 - 7-12 Social Studies TExES #232
 - EC-12 Pedagogy and Professional Responsibilities TExES #160
- All courses outside the University Core must be "C-" or better.

PUBLIC SERVICE LEADERSHIP B.S.

This plan is for students looking for leadership preparation for careers in public service. Public service leaders can be administrators, teachers, and trainers; they may also serve as public officials or leaders in municipal, fire, and police departments. This plan seeks to provide students with knowledge and skills pertaining to managerial principles, leadership, conflict resolution, and organizational communication.

Individuals interested in focusing on Fire Services Administration will follow the requirements for the Bachelor of Science (B.S.) in Public Leadership.

University Core (42 hours)

Communication (6 hours)

WRIT 1301 Composition I WRIT 1302 Composition II

Mathematics (3 hours)

MATH 1314 College Algebra

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.

Creative Arts

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

Social Behavioral Sciences (3 hours)

Choose ONE course from the core approved list.

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.

School 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)

Any ANTH, CRIM, PSYC, or SOCI 3000/4000-level course

Psychology Courses

PSYC 4370 Behavioral Statistics

PSYC 4371 Social Sciences Research Techniques

Overview Requirement

Choose 1 course from:

ANTH 3311 Contemporary Cultural Anthropology

CRIM 3312/SOCI Criminology

3312

POLS 3301 Contemporary Issues in Political Science

Choose 1 course from:

PSYC 3311 Careers and Writing in Psychology

PSYC 4311/SOCI 4311 Social Psychology

Choose 1 course from:

SOCI 4312	Social Structure: Class, Power, and Status
SOCI 4322	Theories of Society

Other courses

PSLD 4328	Social Conflict and Mediation
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 in Public Leadership
COMM 3320	Integrated Marketing Communication
	Or
WRIT 3312	Written Communications in Business

Electives (33 hours)

Up to 18 hours could be lower-level electives (any 1000/2000-level courses)

15 hours must be upper-level electives (any 3000/4000-level courses)

PUBLIC SERVICE LEADERSHIP CERTIFICATE

A Certificate in Leadership in the Public Sector is awarded to students who complete the following set of courses and apply for recognition to the director of the Public Service Leadership program.

Certificate Requirements

Courses

PSLD 4343 Public Service Management

and three of the following five classes:

PSLD 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 atrisk youth, senior citizens, and people struggling with substance abuse. Our faculty have areas of specialization in family sociology, medical sociology, immigration, religion, race and ethnic relations, social inequality, complex organizations and 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

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.

Creative Arts

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

Social Behavioral Sciences (3 hours)

Choose ONE course from the core approved list.

Public Speaking (3 hours)

COMM 1315 Public Speaking

Additional Coursework (3 hours)

Learning Frameworks

Two 1-hour Natural Science Labs - required co-requisites for the chosen science courses.

School 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 (54 hours)

One course chosen from:

HUMN 3374 Critical Inquiry **HUMN 3375** Ideas in Transition

PHIL 3331 Ethics

PHIL 4314 The Great Philosophers I The Great Philosophers II PHIL 4315

Chose two courses from a designated Diversity Requirement list (3000/4000 level)

Choose one of:

ANTH 3311 Contemporary Cultural Anthropology

ANTH 3361 Anthropology of Food ANTH 3362 Medicine, Bodies, and Culture

Choose one of:

Careers and Writing in Psychology

PSYC 3311 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 8 of:

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 4323 Religion in Society SOCI 4324 Organizations in Society **SOCI 4328** Social Conflict and Mediation

SOCI 4341/ANTH Women in Society

4341/WMST 4341

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 Women's Health and Sexuality

4335

Concentration Note

Sociology students are encouraged to structure their plans of study to reflect concentrations within the discipline. The concentrations have been developed by the Sociology faculty to help students design a degree plan that reflects their career and/or graduate education goals. Concentration areas may be found below.

Electives (18 hours)

Up to 12 hours could be lower-level electives (any 1000/2000 level courses)

6 hours must be upper-level (any 3000/4000 level courses)

Sociology Concentration Areas

Criminology

Must successfully complete three of the following courses:

SOCI 3312/CRIM 3312 Criminology SOCI 3335/CRIM 3335 Deviance SOCI 3351 Political Socio

SOCI 3351 Political Sociology SOCI 4332 Sociology of Law

Diversity

Must successfully complete three of the following courses:

SOCI 3317 Religion and Immigration in Houston

SOCI 3352 Urban Sociology SOCI 4355 Urban Sociology Minorities in America

SOCI 4363 American Immigration and the Immigrant Experience

Family Sociology

Must successfully complete three of the following courses:

ANTH 4351/ANTH Families, Communities, and Globalization

5531/PSYC 5535/SOCI

5535

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

Must successfully complete three of the following courses:

ANTH 3362 Medicine, Bodies, and Culture SOCI 3313 Urban and Rural Health

SOCI 4364 Medical Sociology

SOCI 4365 Sociology of Mental Health and Illness Women's Health and Sexuality

4335

Legal Studies

Must successfully complete three of the following courses:

SOCI 4316/WMST Women and the Law

4316

SOCI 4317 Race and the Law

SOCI 4328 Social Conflict and Mediation

SOCI 4332 Sociology of Law

Urban Studies

Must successfully complete three of the following courses:

SOCI 3313 Urban and Rural Health SOCI 3351 Political Sociology SOCI 3352 Urban Sociology SOCI 4355 Minorities in America

SOCI 4363 American Immigration and the Immigrant Experience

Women's Studies

Must successfully complete three of the following courses:

SOCI 4308/HUMN Introduction to Women's Studies

4308/PSYC

4308/WMST 4308

SOCI 4341/ANTH Women in Society

4341/WMST 4341

SOCI 4367/WMST Women's Health and Sexuality

4335 WMST 4312 Women of Color WMST 4337/PSYC Violence Against Women

4337

Work and Occupations

Must successfully complete three of the following courses:

SOCI 4311/PSYC 4311 Social Psychology SOCI 4324 Organizations in Society SOCI 4328 Social Conflict and Mediation

SOCI 4357 Sociology of Family, Work, and Gender

SCHOOL OF SCIENCE AND COMPUTER ENGINEERING

The School of Science and Computer Engineering (SCE) 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 School of Science and Computer Engineering has three divisions:

- the Division of Computing and Mathematics
- the Division of Engineering
- the Division of Natural Sciences

The faculty of each division aspires to a professional model that includes balance among the components of the SCE 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, 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 SCHOOL OF SCIENCE AND COMPUTER 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 meet with academic advisers and faculty who assist students in completing a Candidate Plan of Study (CPS). 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 AND MATHEMATICS DIVISION

Students desiring to study in the computing sciences or mathematics may choose any one of five undergraduate plans. 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 advisor) 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-".

1	, 1
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 3331	Computer Organization and Assembly Language
CSCI 2315	Data Structures
CSCI 3352	Advanced Data Structures and Algorithms
CSCI 4333	Design of Database Systems
CSCI 3321	Numerical Methods
CSCI 4354	Operating Systems
CENG 3312	Digital Circuits
CENG 3112	Lab for Digital Circuits
CENG 3331	Introduction to Telecommunications and Networks
CENG 3131	Lab for Telecommunications and Networks
CENG 3351	Computer Architecture
CENG 3151	Lab for Computer Architecture
CSCI 4388	Senior Project in Computer Science
SWEN 4342	Software Engineering
WRIT 3315	Technical Writing

Major Electives (12 hours)

CSCI/CINF Approved upper-level electives.

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. 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. This plan is not available to UHCL freshman. Students must transfer in 33 hours, 15 of which need to be technical electives 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 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
CSCI 3311	Programming With Visual Basic
CINF 3321	Information Systems Theory and Practice
MGMT 3301	Management Theory and Practice
MGMT 3313	Organizational Communication
WRIT 3315	Technical Writing
MATH 1342	Elementary Statistical Methods
	Or
STAT 3308	Computational Statistics

Note: 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 select three out of these four courses:

CINF 4320 Web Application Development

ISAM 4331 Introduction to Business Internet Applications Development

ARTS 2371 Digital Photography I

COMM 3360 Web Design

Students are also encouraged to take ARTS 4345 Advanced Web Design as one of the approved electives.

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

This plan is not available to UHCL freshman. Students must transfer in 33 hours, 15 of which need to be technical electives in order to be qualified for admittance into the BAS program.

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

Computer Science I
Computer Science II
Data Structures
Design of Database Systems
Quantitative Methods for Management
Principles of Microeconomics
Information Technology Project Management
Or
Emerging Information Technology
Business Calculus
Discrete Mathematics
Management Theory and Practice
Computational Statistics
Software Engineering
Written Communications in Business
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
CCCT (25/	0

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

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 School of Education (SoE) for 4-8 degree and certification as well as for 8-12 degree and certification.

Mathematical 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

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 4300	Introduction to Modern Algebra and Number Theory
MATH 4344	Introduction to Probability
	Or
STAT 4344	Introduction to Probability
WRIT 3315	Technical Writing

Major Electives (12 hours)

Four upper level MATH/STAT classes which must be selected from the following list:

MATH 4301	History of the Mathematical Sciences
MATH 4312	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 4325	Theory of Models and Applications
MATH 4345	Introduction to Statistics
	Or
STAT 4345	Introduction to Statistics

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

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 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 4316	Mathematic Software Applications
MATH 4331	Advanced Calculus
MATH 4322	Introduction to Abstract Algebra
	Or
MATH 4345	Introduction to Statistics
	Or
STAT 4345	Introduction to Statistics
MATH 4344	Introduction to Probability
	Or
CSCI 1318	Pascal Programming I

C Programming CSCI 1320 CSCI 3311 Programming With Visual Basic WRIT 3315 Technical Writing

MATH 4363 Functions of a Complex Variable MATH 4346 Probability for Actuarial Exam P1

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 4312 Number Theory MATH 4313 Introduction to Topology MATH 4315 Numerical Analysis and its Applications MATH 4321 Predicate Logic MATH 4322 Introduction to Abstract Algebra Theory of Models and Applications MATH 4325 MATH 4341 Introduction to Analysis MATH 4345 Introduction to Statistics Or

STAT 4345 Introduction to Statistics

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.

ENGINEERING DIVISION

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 advisor) 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 Í
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
CSCI 3314	Software Development With Java
CENG 3312	Digital Circuits
CENG 3112	Lab for Digital Circuits
CENG 3313	Linear Circuits
CENG 3113	Lab for Linear Circuits
CENG 3314	Advanced Linear Circuits
CENG 3114	Lab for Advanced Linear Circuits
CENG 3331	Introduction to Telecommunications and Networks
CENG 3131	Lab for Telecommunications and Networks
CENG 3264	Engineering Design and Project Management

CENG 3371	Microcontroller Programming
CENG 4313	Microprocessor Interfacing
CENG 4113	Lab 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	Lab for Introduction Digital Signal Processing
CENG 4311	Telecommunications Networking Devices
CENG 4321	Telecommunications Switching Systems
CSCI 4312	Network Protocols

NATURAL SCIENCES DIVISION

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 31 hours of core courses, plus 29 hours of designated electives 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 in the Biological Sciences at UHCL (grades of "C-" or below are not acceptable).

BIOL 1306	Biology for Science Majors I
BIOL 1106	Lab for Biology for Science Majors I
BIOL 1307	Biology for Science Majors II
BIOL 1107	Lab for Biology for Science Majors II
CHEM 1311	General Chemistry I
CHEM 1111	Laboratory for General Chemistry I
CHEM 1312	General Chemistry I
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

Group 2:

BIOL 3313 Plant Anatomy

BIOL 3113 Laboratory for Plant Anatomy

Group 3:

BIOL 3373 Human Anatomy

BIOL 3173 Human Anatomy Laboratory

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 Molecular Genetics Laboratory

Required support courses:

(must be completed with grades of "C-" or better)

Statistics

STAT 3308 Computational Statistics

Technical Writing

WRIT 3315 Technical Writing

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 29 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 4399	Independent Study in Biology
BIOL 4391	Selected Topics in the Biological Sciences
BIOL XX3X	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 School of Education (SoE) and must have dual advisement in both the subject field (biological sciences) and education. Please refer to the (SoE) section of the catalog for the appropriate coursework for grades 7-12 teaching preparation.

Biological Science B.S. Degree

Requirements

DIOI 2206

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 20 hours of core courses, plus 40 hours of required courses and designated electives within their 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 1306	Biology for Science Majors I
BIOL 1106	Lab for Biology for Science Majors I
BIOL 1307	Biology for Science Majors II
BIOL 1107	Lab for Biology for Science Majors II
CHEM 1311	General Chemistry I
CHEM 1111	Laboratory for General Chemistry I
CHEM 1312	General Chemistry I
CHEM 1112	Laboratory for General Chemistry II
CHEM 2323	Organic Chemistry I
CHEM 2123	Laboratory for Organic Chemistry I
CHEM 2325	Organic Chemistry II
CHEM 2125	Laboratory for Organic Chemistry II
MATH 2413	Calculus Í
PHYS 1301	College Physics I
PHYS 1101	Laboratory for College Physics I
PHYS 1302	College Physics II
PHYS 1102	Laboratory for College Physics II

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 courses for each specialization area with grades of "C" or better (grades of "C-" or below are not acceptable). Designated elective courses must be completed with grades of "C-" or better.

Requirements List

BIOL 3141	Molecular Genetics Laboratory
BIOL 3341	Molecular Genetics
BIOL 4242	Laboratory for Biochemistry
BIOL 4278	Seminar in Biology
BIOL 4311	Ecology
BIOL 4341	Biochemistry I
STAT 3308	Computational Statistics
WRIT 3315	Technical Writing

Biological Science: Cell/Molecular/Biotechnology Specialization

Specialization Requirements

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	Human Anatomy Laboratory

Group 2:

BIOL 2428 Vertebrate Zoology

Group 3:

BIOL 3313 Plant Anatomy

BIOL 3113 Laboratory for Plant Anatomy

Histology

Choose from the following designated elective courses or other courses from list above (21 hours) BIOL 4332

DICE 1332	1113101057
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 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	Human Anatomy Laboratory
BIOL 4241	Laboratory for Physiology
BIOL 4342	Biochemistry II
BIOL 4345	Human Physiology
BIOL 4361	Immunology
PHYS 1302	College Physics II
PHYS 1102	Laboratory for College Physics II

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PHYS 1301 College Physics I

PHYS 1101 Laboratory for College Physics I

Choose one of the following courses (3 hours):

BIOL 4347 Cellular Physiology BIOL 4346 Pathophysiology BIOL 4351 Molecular Biology

Choose from the following designated elective courses or other courses from list above (17 hours):

BIOL 4332 Histology BIOL 3335 Epidemiology

BIOL 4325 Environmental Toxicology BIOL 4348 Developmental Biology BIOL 4253 Laboratory for Biotechnology

BIOL 4371 Cancer Biology

CHEM 4369 Food Chemistry and Human Nutrition

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 4389 Independent Study in Biology

BIOL x2xx Biology Lab 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 designated elective courses or other courses from list above (15-16 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 Biolog

Choose from the following designated elective courses or other courses from list above (21 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 4389	Independent Study in Biology
BIOL 4315	Biology Practicum
BIOL 4391	Selected Topics in the Biological Sciences
BIOL v3vv	Approved Flective

Biological Science: Forensic Biology Specialization

Specialization Requirements

- I	1
BIOL 2321	Microbiology for Science Majors
BIOL 2121	Laboratory for Microbiology for Science Majors
BIOL 3373	Human Anatomy
BIOL 3173	Human Anatomy Laboratory
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 designated elective courses (10 hours):

Cellular Physiology
Mock Trial
Instrumental Analysis
Criminal Law

5338/SOCI 4334/SOCI

5338	
BIOL 4189	Independent Study in Biology
BIOL 4289	Independent Study 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 advisor 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 2121	Laboratory for Microbiology for Science Majors
BIOL 3173	Human Anatomy Laboratory
BIOL 4225	Environmental Toxicology Laboratory
BIOL 4391	Selected Topics in the Biological Sciences
BIOL 4241	Laboratory for Physiology
BIOL 4355	Tissue Culture
BIOL 4189	Independent Study in Biology
BIOL 4289	Independent Study in Biology
BIOL 4389	Independent Study in Biology
Independent Study: (1	ip to 6 hours total)

CHEMISTRY B.A./B.S.

Plans in Chemistry lead to the Bachelor of Arts (B.A.) or Bachelor of Science (B.S.) degrees. The Chemistry Program has completed evaluation and assessment and re-accreditation by the American Chemical Society (ACS) in 2009 and is on the ACS list of approved chemistry programs nationwide. Therefore students may now obtain ACS-certified BS degrees in chemistry if they complete the appropriate curriculum. Students enrolled in the Chemistry plan may choose from high quality content courses in all of the traditional areas of Organic, Analytical, Physical and Inorganic Chemistry, as well as in the specialization areas such as Biochemistry, Chemical and Biological Technology, 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 plan's faculty in any of these areas. In regard to such research, it should be noted that the Chemistry plan has received endowments from the Welch Foundation in the form of a Chemistry Departmental Research Grant. Those funds have 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. Further information on the Chemistry plan is available from the Chair of Chemistry.

The B.A. degree is recommended for students preparing for careers in interdisciplinary areas such as medicine, secondary school teaching, patent law or 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 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-".

-	· -
WRIT 3315	Technical Writing
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
CHEM 1311	General Chemistry I
CHEM 1111	Laboratory for General Chemistry I
CHEM 1312	General Chemistry I
CHEM 1112	Laboratory for General Chemistry II
CHEM 2323	Organic Chemistry I
CHEM 2123	Laboratory for Organic Chemistry I
CHEM 2325	Organic Chemistry II
CHEM 2125	Laboratory for Organic Chemistry II
CHEM 2301	Analytical Chemistry I
CHEM 2101	Laboratory for Analytical Chemistry I
CHEM 2302	Analytical Chemistry II
CHEM 2102	Laboratory for Analytical Chemistry II
CHEM 3320	Survey of Physical Chemistry
CHEM 4310	Advanced Chemical Calculations
CHEM 4335	Inorganic Chemistry
CHEM 4235	Advanced Lab for 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
CHEM 1204	Chemical Calculations

Major Electives (23 hours)

Required "C-" or better. Choose 3000 or 4000 level courses from the following approved list of Chemistry courses or you may choose other technical (science or science related) courses to be approved in advance by your faculty adviser.

CHEM 3333	Environmental Chemistry
CHEM 4189	Independent Study in Chemistry
CHEM 4251	Laboratory for Environmental Analysis
CHEM 4369	Food Chemistry and Human Nutrition
CHEM 4355	Environmental Sampling and Monitoring
CHEM 4341	Biochemistry I
CHEM 4311	Chemical Origins
CHEM 4315	Handedness in Science
CHEM 4389	Independent Study in Chemistry
CHEM 4363	Forensic Chemistry
CHEM 4391	Selected Topics in Chemistry
CHEM 4312	Principles of Astrobiochemistry

Chemistry 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

Required minimum for all Major Requirements is "C-".

WRIT 3315 MATH 2413	Technical Writing
MATH 2413	Calculus I
MATH 2414	Calculus II
PHYS 2326	University Physics II
PHYS 2126	Laboratory for University Physics II
PHYS 2325	University Physics I
PHYS 2125	Laboratory for University Physics I
CHEM 1311	General Chemistry I
CHEM 1111	Laboratory for General Chemistry I
CHEM 1312	General Chemistry I
CHEM 1112	Laboratory for General Chemistry II
CHEM 1204	Chemical Calculations
CHEM 2323	Organic Chemistry I
CHEM 2123	Laboratory for Organic Chemistry I
CHEM 2325	Organic Chemistry II
CHEM 2125	Laboratory for Organic Chemistry II
CHEM 2301	Analytical Chemistry I
CHEM 2101	Laboratory for Analytical Chemistry I
CHEM 2302	Analytical Chemistry II
CHEM 2102	Laboratory for Analytical Chemistry II
CHEM 4335	Inorganic Chemistry
CHEM 4235	Advanced Lab for Inorganic Chemistry
CHEM 4321	Physical Chemistry I
CHEM 4322	Physical Chemistry II
CHEM 4222	Laboratory for Physical Chemistry
CHEM 4341	Biochemistry I
CHEM 4367	Instrumental Analysis
CHEM 4368	Advanced Organic Chemistry
CHEM 4279	Undergraduate Research
CHEM 4310	Advanced Chemical Calculations
CHEM 4371	Advanced Spectroscopic Analysis
CHEM 4372	Chemistry Seminar
CHEM 4373	Quantitative Chemical Analysis

Chemistry Electives (8 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.

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CHEM 3333	Environmental Chemistry
CHEM 4251	Laboratory for Environmental Analysis
CHEM 4312	Principles of Astrobiochemistry
CHEM 4315	Handedness in Science
CHEM 4342	Biochemistry II
CHEM 4355	Environmental Sampling and Monitoring
CHEM 4363	Forensic Chemistry
CHEM 4369	Food Chemistry and Human Nutrition

Must complete the required courses with grades of "C-" or better.

PRE-HEALTH PROFESSIONS STUDENTS

Students interested in pursuing a career in one of the health professions (including prospective dental, medical, veterinary, nursing, physician assistant, physical therapy school applicants) are advised that students are responsible for determining the specific requirements of the schools selected for application.

Additionally, students planning to apply to medical school are advised that a new MCAT exam will be implemented in 2015. In addition to testing knowledge in the basic sciences, the new test will also include two new sections. One of the new sections will test the applicants' knowledge of psychology, social sciences and behavior. A second new section will test the applicants' skill in critical thinking and reasoning.

Students intending to apply to a healthcare profession program are strongly encouraged to discuss their plans with their faculty adviser and the UHCL Pre-Health adviser as early in their academic career as possible.

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 in college.
- 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 who wish to continue 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 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, they are 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.

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

Requirements

W/RIT 3315

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 following courses must be completed with the grade of "C-" or better:

Technical Writing

WKII 3313	i echnicai writing
CHEM 1311	General Chemistry I
CHEM 1111	Laboratory for General Chemistry I
CHEM 1312	General Chemistry I
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.

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	Lab for Biology for Science Majors I
BIOL 1307	Biology for Science Majors II
BIOL 1107	Lab 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
CHFM 4356	Soil & Groundwater Remediation

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

Laboratory for Biology of Fishes Plant Identification BIOL 4113

BIOL 4327

Environmental Chemistry Specialization

CHEM 2301 CHEM 2302 CHEM 3320 CHEM 4251 CHEM 4352 CHEM 4355 CHEM 4366 CHEM 4367 GEOL 4323 CHEM 3235	Analytical Chemistry I Analytical Chemistry II Survey of Physical Chemistry Laboratory for Environmental Analysis Water Chemistry and Water Pollution Environmental Sampling and Monitoring Soil & Groundwater Remediation Instrumental Analysis Soils in the Environment Opposition Chemistry II
CHEM 2325 CHEM 2125	Organic Chemistry II Laboratory for Organic Chemistry II

Environmental Geology Specialization CHEM 4251 Laboratory for Environmental CHEM 4251

CHEM 4251	Laboratory for Environmental Analysis
CHEM 4355	Environmental Sampling and Monitoring
GEOL 1303	Laboratory for Physical Geology
GEOL 1103	Laboratory for Physical Geology
GEOL 1304	Laboratory for Physical Geology
GEOL 1104	Laboratory for Physical Geology
GEOL 2307	Geological Field Methods
GEOL 2107	Laboratory for Geological Field Methods
GEOL 3307	Geographical Information Systems
GEOL 3317	Mineralogy and Petrology
GEOL 3361	Photogeology
GEOL 4222	Laboratory for Geomorphology
GEOL 4323	Soils in the Environment
GEOL 4324	Geomorphology
GEOL 4325	Sedimentation and Stratigraphy
GEOL 4351	Hydrogeology
GEOL 4356	Soil and Groundwater Remediation

Industrial Hygiene Specialization

BIOL 2301	Anatomy & Physiology I
BIOL 2101	Laboratory for Anatomy and Physiology I
BIOL 2302	Anatomy & Physiology II
BIOL 2102	Lab 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 4313	Industrial Ventilation
INDH 4315	Industrial Radiological Health
INDH 4321	Ergonomics, Human Factors and Workspace
INDH 4322	Industrial Hygiene Sampling and Analysis

Safety Specialization

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BIOL 2301	Anatomy & Physiology I
BIOL 2101	Laboratory for Anatomy and Physiology I
BIOL 2302	Anatomy & Physiology II
BIOL 2102	Lab 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

Design

SCHOOL OF SCIENCE AND COMPUTER ENGINEERING 269

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.

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 advisor 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 1311	General Chemistry I
CHEM 1111	Laboratory for General Chemistry I
CHEM 1312	General Chemistry I
CHEM 1112	Laboratory for General Chemistry II
MATH 2413	Calculus Í
MATH 2414	Calculus II
MATH 2315	Calculus III
PHYS 2325	University Physics I
PHYS 2125	Laboratory for University Physics I
PHYS 2326	University Physics II
PHYS 2126	Laboratory for University Physics II
WRIT 3315	Technical Writing
PHYS 3303	Modern Physics
PHYS 3103	Laboratory for Modern Physics
PHYS 4311	Mathematical Methods for Physics and Engineering I
PHYS 4312	Mathematical Methods for Physics and Engineering II
PHYS 4321	Intermediate Mechanics
PHYS 4331	Intermediate Electromagnetism
PHYS 4342	Quantum Theory
PHYS 4351	Thermodynamics & Statistical Mechanics
PHYS 4372	Research Seminar
PHYS 4389	Independent Study in Physics

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	Lab for Digital Circuits
CENG 3313	Linear Circuits
CENG 3113	Lab for Linear Circuits
PHYS 4322	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.

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 3431 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.

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 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 is constructed cross-culturally. Compares how 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 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- and three- dimensional concepts.

ARTS 1312 - Design II

Elements and principles of art using two- and three-dimensional concepts.

Prerequisite: ARTS 1311 Design I.

ARTS 1316 - Beginning Drawing

Investigation of drawing media and techniques including descriptive and expressive possibilities.

Prerequisite: ARTS 1311 Design Foundations

ARTS 1317 - Drawing II

Investigation of drawing media and techniques including descriptive and expressive possibilities.

Prerequisite: ARTS 1316 Drawing I.

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 - Beginning Painting

Exploration of ideas using painting media and techniques.

Prerequisite: ARTS 1311 Design Foundations and ARTS 1316 Beginning Drawing

ARTS 2317 - Painting II

Exploration of ideas using painting media and techniques.

Prerequisite: ARTS 2316 Beginning Painting

ARTS 2356 - 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.

ARTS 2371 - Digital Photography I

Exploration of photography and photographic processes in the digital realm.

ARTS 3310 - Sculpture

A study of three-dimensional forms as related to techniques, processes, aesthetics, and other materials.

ARTS 3320 - Ceramics

Study of ceramic design as related to tools, materials, and processes; hand building and potter's wheel.

ARTS 3330 - Color

Understanding the color properties and relationships through studio practices. Topics include color systems and fundamental vocabulary for analyzing and identifying color.

ARTS 3331 - Intermediate Drawing

Principles of space relationship and composition using recognizable forms through color pastel drawings.

Prerequisite: ARTS 1316 Drawing I or ARTS 1325 Drawing for Non-Art Majors.

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 - Intermediate Printmaking

Exploration of printmaking techniques in intaglio, chine-colle 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 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 3361 - Advanced Web Design

Study of advanced techniques in Web page construction, including Web animation, dynamic HTML, and site management. Also covers audience and usability testing.

Prerequisite: COMM 3360 Web Design or permission of instructor.

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 I and ARTS 3360 Graphic Design.

ARTS 4189 - Independent Study in Art

Permission of instructor required. May be taken for 1 or 3 hours.

ARTS 4300 - Methods in Elementary Art Education

An examination of trends in theory and practice for EC-6. Curriculum, instructional techniques, and classroom management are addressed.

ARTS 4301 - Methods in Secondary Art Education

An examination of research, theory, and practice for grades 7-12. Curriculum development, instructional techniques, and classroom management methods are applied. Field experience required.

ARTS 4302 - Crafts Design and History

Study of crafts history, design, and techniques; projects in paper, fibers, clay, and other media. May be repeated for credit.

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 4320 - Advanced Ceramics

Ceramics workshop with emphasis on individual projects. 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 4331 - Advanced Drawing

Principles of space relationship and composition through color pastel drawings, collage drawings, and mixed media works on paper. May be repeated for credit.

Prerequisite: ARTS 3331 Intermediate Drawing or equivalent.

ARTS 4332 - Life Drawing

Introduction to techniques of proportion and accuracy in drawing the human form. Students work from live model in pencil, pastel, and charcoal in both detailed and gesture drawings. Topics vary; may be repeated for credit.

Prerequisite: ARTS 3331 Intermediate 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-colle, etching, woodcuts/linocuts and monotypes. May be repeated for credit.

Prerequisite: ARTS 3340 Intermediate Printmaking or equivalent.

ARTS 4341 - Fibers Studio

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 I 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 I or ARTS 2356 Traditional Photography or equivalent with instructor approval.

ARTS 4351 - Digital Photography II

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 I or permission of instructor.

ARTS 4352 - Digital Video

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 4357 - 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.

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 I and ARTS 3360 Graphic Design or permission of instructor.

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 4369 - Illustration

Survey of professional illustration techniques. Computer projects using various techniques including rotoscoping, typography, and photo-illustration. Access to a digital SLR desirable.

Prerequisite: ARTS 2371 Digital Photography I and 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 1 or 3 hours.

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.

ASTR 1104 - Lab for Solar System

Laboratory experiments and activities in observational and solar system astronomy.

ASTR 1303 - Stars and Galaxies

Laboratory experiments and activities in stellar and galactic astronomy.

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.

ASTR 1373 - Life in the Universe

Non-technical account of origin of the universe, origin and evolution of life and possibilities for finding life on other planets, including the Search for Extra-Terrestrial Intelligence. Cannot be counted as physical science elective for purposes of teacher certification or as an elective for science majors.

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 Physics.

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: General Chemistry, and University or College Physics.

ASTR 4311 - Universal Origins

Origin of the universe, the Earth and life.

Prerequisite: General Chemistry, and University or College Physics.

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 - Lab for Biology for Science Majors I

Laboratory exercises in basic biochemistry, cell biology, cell metabolism and energetics, photosynthesis, genetics, evolution, taxonomy, bacteria and viruses.

BIOL 1107 - Lab for Biology for Science Majors II

Laboratory exercises relating to fungi, protists, plants, plant function, animals, animal physiology and ecology.

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.

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.

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.

BIOL 2102 - Lab 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.

BIOL 2121 - Laboratory for Microbiology for Science Majors

Laboratory exercises using culture of micro organisms grown on selected media.

Prerequisite: Or equivalent

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.

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.

BIOL 2321 - Microbiology for Science Majors

Study of the morphology, physiology and taxonomy of representative groups of pathogenic and non-pathogenic micro organisms.

Prerequisite: Or equivalent

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: Or equivalent

BIOL 3303 - The Environment

An introduction to ecosystems, populations and human impacts on the environment. Not for biology or environmental science majors.

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: General biology, general chemistry.

BIOL 3113 - Laboratory for Plant Anatomy

Two laboratory hours each week.

Corequisite: BIOL 3133.

BIOL 3141 - Molecular Genetics Laboratory

Laboratory investigations using molecular genetics to demonstrate principles of transmission and population genetics.

Corequisite: BIOL 3341.

BIOL 3173 - Human Anatomy Laboratory

The structure of the human body will be studied using anatomical models, preserved tissue specimens and computer programs.

Corequisite: BIOL 3373.

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: General biology.

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: General biology. 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: General biology. General chemistry

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: General biology.

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: General biology, general chemistry.

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.

Corequisite: BIOL 3173.

BIOL 4101 - Laboratory Methods in Life Sciences

Three laboratory hours per week.

Corequisite: BIOL 4301.

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 4189 - Independent Study in Biology

Prerequisite: Approval of instructor, chair and associate dean.

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: Prerequisite or corequisite: BIOL 4311.

BIOL 4225 - Environmental Toxicology Laboratory

Theory and practice in aquatic toxicity testing using EPA standard methods.

Prerequisite: BIOL 4325 or equivalent.

BIOL 4241 - Laboratory for Physiology

Laboratory exercises demonstrating physiological processes.

Prerequisite: BIOL 4344 or 4345.

BIOL 4242 - Laboratory for Biochemistry

One hour of lecture and three hours of laboratory per week.

Prerequisite: Prerequisite or corequisite: BIOL 4341.

BIOL 4252 - Molecular Biology Laboratory

Laboratory methods and techniques in molecular biology. Four laboratory hours per week.

Prerequisite: Prerequisite or corequisite: 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 4301 - Methods in Life Science

Recent developments in plant and animal physiology, ecology and environmental science; emphasis on teaching biology from a contemporary standpoint.

Prerequisite: General biology; corequisite: BIOL 4101.

BIOL 4302 - Survey of Disease

Prerequisite: General biology and general chemistry. Detailed study of diseases affecting humans.

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.

BIOL 4313 - Biology of Fishes

Systematic study of freshwater and marine fishes, including evolution, ecology, life history and economics of important species.

Prerequisite: General Biology, Co-requisite: BIOL 4113.

BIOL 4315 - Biology Practicum

Practical experience at an off-campus facility, such as aquarium, rainforest park, wetlands center or Galveston Bay Agency. Requires pre-acceptance interview, minimum of 10 hours of work per week and approval of instructor.

BIOL 4323 - Field Biology

Field methods for the study of ecological systems. Fieldwork and laboratory are required.

BIOL 4325 - Environmental Toxicology

Physiological and systemic interactions of environmental pollutants with plants and animals.

Prerequisite: Twelve hours in biology and chemistry.

BIOL 4327 - Plant Identification

Taxonomic study of herbaceous and woody plants of SE Texas.

BIOL 4332 - Histology

A microscopic study of animal tissues including the theories of fixation and staining of clinical samples.

Prerequisite: BIOL 3307 or BIOL 4347.

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: General biology.

BIOL 4335 - Forensic Biology

Theory and techniques used in biological investigations of crimes, including toxicological, genetic and DNA analysis.

Prerequisite: BIOL 3341 and BIOL 4341.

BIOL 4341 - Biochemistry I

Study of cellular biochemical components and metabolism.

Prerequisite: Organic chemistry.

BIOL 4342 - Biochemistry II

Regulation and control of intermediary metabolism. Introduction to biochemical genetics.

Prerequisite: BIOL 4341 or equivalent.

BIOL 4343 - Plant Physiology

Metabolic and physiological processes involved in plant growth.

BIOL 4344 - Comparative Animal Physiology

Study of organ functions in major invertebrate and vertebrate phyla.

Prerequisite: General biology, general chemistry.

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: General biology, general chemistry.

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 or equivalent.

BIOL 4347 - Cellular Physiology

Cell structure and function; emphasis on cytological, biochemical, genetical and developmental perspectives.

Prerequisite: Biochemistry.

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 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: General biology. General chemistry

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: Genetics or Biochemistry or equivalent.

BIOL 4354 - Introduction to Bioinformatics

Introduction to bioinformatics, experimental sources of biological data, databases and servers operating systems (including Windows and Unix) and internet tools.

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 4242 or equivalent.

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.

BIOL 4399 - Independent Study in Biology

CENG - COMPUTER ENGINEERING

CENG 3112 - Lab for Digital Circuits

Laboratory experiments using digital logic and small scale integrated circuits.

Corequisite: CENG 3312.

CENG 3113 - Lab for Linear Circuits

Laboratory experiments demonstrating AC/DC circuits. Experiments using lumped constants and integrated circuits will be stressed.

Corequisite: CENG 3313.

CENG 3114 - Lab for Advanced Linear Circuits

Experiments emphasizing the design and analysis of linear lumped-constant circuits.

Corequisite: CENG 3314.

CENG 3115 - Lab for Introduction Digital Signal Processing

Laboratory experiments in Digital Signal Processing.

Corequisite: CENG 3315.

CENG 3131 - Lab for Telecommunications and Networks

Laboratory experiments in digital and data communications.

Corequisite: CENG 3331.

CENG 3151 - Lab 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.

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: 6 hours Calculus, University Physics II

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 3313/CENG 3113

Corequisite: CENG 3114

CENG 3315 - Introduction to Digital Signal Processing

Sinusoids, spectrum representation, sampling and aliasing, FIR and IIR digital filters. Laboratory instruction.

Prerequisite: Calculus I, II and C Programming

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 3311

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 3313 or equivalent.

CENG 4113 - Lab for Microprocessor Interfacing

Laboratory experiments interfacing the Intel microcomputer to peripherals, memory, and other devices.

Corequisite: CENG 4313.

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.

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; prerequisite or corequisite: CSCI 3331

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: Ordinary Differential Equations and basic circuit analysis.

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 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 1204 - Chemical Calculations

The study of the mathematical applications used in chemistry, designed for science and engineering students.

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 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.

CHEM 1312 - General Chemistry I

Chemical equilibrium; phase diagrams and spectrometry; acid-base concepts; thermodynamics; kinetics; electrochemistry; nuclear chemistry; an introduction to organic chemistry and descriptive inorganic chemistry.

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.

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.

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.

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.

CHEM 1275 - Survey of Forensic Chemistry

This course will survey current methods in Forensic Science (especially chemistry) by examining real cases.

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.

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).

CHEM 2101 - Laboratory for Analytical Chemistry I

This course provides hands-on training on analysis, sampling, statistical treatment and basic skills in analytical chemistry.

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.

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.

CHEM 2125 - Laboratory for Organic Chemistry II

Extension of CHEM 2123; building from basic procedures and lab techniques to a more advanced level.

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.

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.

CHEM 3300 - Chemistry for Non-Science Majors

This course is for students who wish to gain a descriptive understanding of Chemistry applicable to everyday living. Not for BIOL, CHEM, ENSC or Physical Sciences majors.

CHEM 3301 - Life in 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 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: General Chemistry I, II, Calculus I, College Physics I, II.

CHEM 3333 - Environmental Chemistry

Chemical processes and reactions related to chemical pollution problems and their control in the atmosphere, soils and waters.

Prerequisite: General chemistry.

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.

Prerequisite: Prerequisite or corequisite: 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: General chemistry, organic chemistry.

CHEM 4242 - Laboratory for Biochemistry

Laboratory principles and practices in cellular biochemistry. One hour of lecture and 3 hours of laboratory per week.

Prerequisite: Prerequisite or corequisite: CHEM 4341.

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: Prerequisite or corequisite: CHEM 3333.

CHEM 4279 - Undergraduate Research

Prerequisite: Approval of a faculty member under whose direction the research will be carried out, the chemistry program chair and the dean.

CHEM 4310 - Advanced Chemical Calculations

Prepares chemistry and biology students for math in Physical Chemistry and Biochemistry, using examples geared to these subjects.

Prerequisite: General chemistry I & II, Calculus I & II, University or College Physics I & II.

CHEM 4311 - Chemical Origins

Origin of the universe and the chemical elements, pre-biotic chemistry and the origin of life.

Prerequisite: General Chemistry and University or College Physics.

CHEM 4312 - Principles of Astrobiochemistry

Overview of the search for life in the universe, including chemical signatures of life on other planets.

Prerequisite: General Chemistry and University or College Physics.

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: General Chemistry and University or College Physics.

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 4231 and CHEM 4232 may be taken in any order

Prerequisite: General Chemistry I, II, Calculus I, II and calculus-based Physics I, II and CHEM 4130.

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 4231 and CHEM 4232 may be taken in any order

Prerequisite: General Chemistry I, II, Calculus I, II and calculus-based Physics I, II and CHEM 4130.

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: Prerequisite: General chemistry and Organic chemistry

CHEM 4341 - Biochemistry I

Study of cellular biochemical components and metabolism.

Prerequisite: Organic chemistry, 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: General chemistry, Organic Chemistry I.

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: MATH 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. Corequisite: BIOL 4313.

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: Prerequisite: General chemistry

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: Prerequisite: General chemistry and Organic chemistry

CHEM 4368 - Advanced Organic Chemistry

Advanced mechanistic study of the relationship between structure and reactivity in organic chemistry.

Prerequisite: CHEM 3323, 3324 or equivalent.

CHEM 4369 - Food Chemistry and Human Nutrition

Designed for science students. 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: General chemistry or biology course.

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: Organic Chemistry.

CHEM 4371 - Advanced Spectroscopic Analysis

Designed for students seeking advanced analytical studies through practical spectra analysis.

Prerequisite: organic chemistry.

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: Prerequisite: General chemistry and Organic Chemistry

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.

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 3313, CSCI 3314, CSCI 3333.

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 3333.

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 advisor 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.

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 - Advanced Topics in Computer Information Systems

Identified by specific title each time course is offered. Laboratory instruction.

COMM - COMMUNICATION

COMM 1307 - Introduction to Mass Communication

Examination of historical and modern communications environment, focusing on development and impact of online, broadcasting and print industries as well as related conceptual issues of media ethics, law, economics, and effects theory.

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 - Integrated Marketing Communication

Overview of persuasive communication as it pertains in theory and practice to integrated marketing, public relations, and advertising.

COMM 3321 - Media Writing

Journalistic writing, including fact gathering, news and feature writing styles, publication relations, and freelance writing.

COMM 3352 - Media Law

Legal issues as pertinent to the professional communicator.

COMM 3353 - Understanding Advertising

Study of consumer advertising from several perspectives: persuasive communication strategies, new product launches, ad execution, advertising effects, and ad evaluation.

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 I or permission of instructor.

COMM 3361 - Advanced Web Design

Introduction to create client-based projects using HTML, XHTML, and CSS. Introduction to Javascript.

Prerequisite: ARTS 2371 Digital Photography I 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, 2, or 3 hours.

COMM 4301 - Global Issues in Film

Film studies course in which global issues in a digital society are addressed using critical/cultural studies approaches. Focuses on world-wide cultural differences to foster knowledge and understanding of diversity issues.

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 Integrated Marketing Communication 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 I, 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. 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 I 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 I.

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 and Editing

Basic understanding of the technology behind video production as an information medium using nonlinear editing equipment. Emphasis on concept, newsworthiness, technique, and effect on audience.

COMM 4355 - Advanced Video Production and Editing

Advanced editing tools such as Final Cut Pro Timeline, Garageband, Live Type, and DVD pro.

Prerequisite: COMM 4354 Video Production and Editing.

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 I.

COMM 4379 - Communication Internship

A supervised, onsite 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.

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 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 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.

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 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 2315 - Data Structures

Further applications of programming techniques. Topics may include file access methods, data structures and modular programming, program testing and documentation.

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.

CSCI 3314 - 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: C, Pascal or Ada.

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: Calculus, linear algebra, ordinary differential equations and programming in C, Pascal, Ada or Java.

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: Programming in C or Java.

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: Programming in C.

CSCI 3342 - Ada Programming Language

Introduction to the Ada programming language. Emphasis on the systematic design of software in the Ada environment. Laboratory instruction.

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: MATH 3331 and CSCI 3333 or equivalent.

CSCI 3362 - Artificial Intelligence Programming Languages

An introduction to AI programming languages. Programming assignments in LISP and PROLOG. Laboratory instruction.

Prerequisite: CSCI 3333.

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 3331 and CENG 3331.

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 3134 or equivalent.

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 3333 and CSCI 3323 or CSCI 3314 or equivalent.

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 3313, CSCI 3314, CSCI 3333.

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 3331 and CSCI 3352.

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 3333.

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: Calculus I, Linear Algebra.

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 3313 or equivalent and CSCI 3333.

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 3331, CSCI 3333, CENG 3351 or equivalents and senior standing.

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: Previous programming experience in a high level 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 3333.

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 advisor 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.

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: College algebra and finite math.

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: INST 3313 (for EC-6 students only) and TCED 4303 (for EC-6 students only).

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 for Young Children Birth-Age 5

This course will cover mathematics and science concepts, as well as content methods and strategies for children birth through age five. Field experience required.

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: LLLS 4311 and LLLS 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 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 I

Supervised field experience in an approved early childhood educational setting. Permission of instructor required.

ECED 4378 - Practicum II

Supervised field experience in an approved early childhood educational setting different from the Practicum I setting. Permission of the instructor required.

Prerequisite: ECED 4377.

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.

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.

ENSC - ENVIRONMENTAL SCIENCE

ENSC 1301 - Laboratory for Environmental Science I

An introduction to chemical and biological principles relating to ecology, natural resources including animals, plants, water, soil and air.

ENSC 1302 - Laboratory for Environmental Science II

Interdisciplinary study of natural and social sciences and how they apply to the environment, including environmental quality and risk assessment.

ENSC 1101 - Laboratory for Environmental Science I

Laboratory exercises include water, soil and air testing, field sampling and observations. Optional and required field trips.

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.

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 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 advisor 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.

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.

Prerequisite: Principles of accounting, principles of economics 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.

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. (Crosslisted 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 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 - Geographic Concepts and Skills

Geographic concepts and skills which are connected with the new social studies curriculum and the appropriate teaching models, 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 - International Political Economy

Introduction to scientific study of international political economy, an interdisciplinary field that focuses on the interplay between politics and economics. Topics include trade, monetary and fiscal policies, foreign direct investment, and development.

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 4322 Problems in 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 1304 - Laboratory for Physical 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 and preservation of fossil and ancient depositional environments.

GEOL 1104 - Laboratory for Physical Geology

Topics include identification of rocks and fossils, map interpretation and field study of regional geologic history.

GEOL 1103 - Laboratory for Physical Geology

Hands-on identification of common rocks and minerals; geological processes associated with different environments.

GEOL 1303 - Laboratory for 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.

GEOL 2307 - Geological Field Methods

Collection of field data, interpretation and construction of geologic and topographic maps and examination of petrologic systems.

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.

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.

GEOL 2311 - Mineralogy and Petrology II

Application of modern laboratory methods to the study of minerals and rocks. Methods include optical and scanning electron microscopy, analysis of bulk materials and microanalysis of minerals.

GEOL 3304 - Fundamentals of Planetary Geology

Study of the origins and evolution of Earth, Mercury, Venus, Mars and the Moon. Physical processes essential to understanding geology are stressed. Laboratory exercises included. Suitable for non-majors.

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 3317 - Mineralogy and Petrology

Formation, identification and geologic and economic significance of minerals and igneous, metamorphic and sedimentary rocks. Laboratory exercises included.

Prerequisite: GEOL 3034 or equivalent and inorganic chemistry.

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 3361 - Photogeology

Application of aerial photography including shuttle, to the geologic environment.

Prerequisite: GEOL 3304, GEOL 4324 and GEOL 4222.

GEOL 4101 - Laboratory for Earth Science

Laboratory exercises which investigate the principles of geology, oceanography, meteorology and astronomy.

Prerequisite: GEOL 3305, 4324, 4222.

GEOL 4189 - Independent Study in Geology

Prerequisite: Approval of instructor, chair and associate dean

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 4311 - Geology of Texas

Geological evolution of Texas including physiographic provinces, landforms and subsurface structure.

Prerequisite: GEOL 3304 or equivalent.

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 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 3305 or equivalent.

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 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

The purpose of this course is to familiarize students with the terminology and theory of health economics and to apply these tools to current issues in health policy and healthcare management. Emphasis will be placed on reading and analyzing recent articles in journals and newspapers that relate to health economics.

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, and 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 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 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 3338 - 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 3339 - Texas and the Borderlands

Survey of the history of Texas and the southwestern borderlands from the beginning of European colonization to the present.

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 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 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 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

Issues and developments in African American history from 1619 to present.

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 Non-Western History

Surveys selected periods and areas in Asia, the Middle East, or Africa. 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 1, 2, or 3 hours.

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 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 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 3379 - Undergraduate Practicum

The application of test procedures utilized for general fitness assessment testing. Permission of instructor required.

Prerequisite: Completion of or concurrent enrollment in HLTH 4301 Physiology of Exercise, HLTH 4302 Biomechanics, HLTH 4304 Principles of Physical Fitness, and HLTH 4305 Seminar in Sports Medicine.

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 4303 - 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 4304 - 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 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 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 3304 - Arts and the Child

Exploration of visual art, theatre, music, and dance as they relate to children's aesthetic growth.

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.

Prerequisite: Permission of instructor required.

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 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 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 3313 - Laboratory Safety

Basic principles of industrial safety as applied to laboratory operations. Review and control of hazards associated with the industrial, academic, and research laboratories will be discussed. Laboratory safety concepts and safety program development will be presented.

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 4313 - Industrial Ventilation

General principles of ventilation, dilution ventilation, comfort ventilation; heat-cold stress control, hood design, air contaminant control; testing ventilation systems and industrial ventilation guidelines.

INDH 4314 - Personal Protective Equipment

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, preaccident 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 advisor 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 advisor 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 3332 - Applications Development with Visual Basic

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.

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 Access 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 advisor, 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

Introduction to scripting languages, including VBScript. Practical script programming for IT tasks, including systems administration, data manipulation, decision support and macro development 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.

ITEC 3365 - Network Fundamentals

Introduces the architecture, structure, functions, components and models of the Internet. Describes and details the use of OSI and TCP layered models to examine the nature and roles of protocols and services at the applications, network, data link and physical layers. The course also covers the principles and structure of IP addressing and the fundamentals of Ethernet concepts and operations. Hands-on lab to build simple LAN topologies by applying basic principles of networking. 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

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.

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.

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

LEGL - LEGAL STUDIES

LEGL 2301 - Legal Environment of Business

Major content areas include beneral principles of law and the legal system, contracts, sales, commercial paper, bank-customer relations, agency and property.

LEGL 3157 - Internet Legal Research

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 statues 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 advisor 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.

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 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 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

A practical seminar in writing fiction, poetry, or drama. Some theory. Emphasis on critical discussion of participants' work.

LITR 4189 - Independent Study in Literature

Permission of instructor required. May be taken for 1 or 3 hours.

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, Bront, 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 Preju*dice, 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

Classic and contemporary texts from America's ethnic and gender minorities: African Americans, Native Americans, Mexican Americans, women, and others.

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, Djebar, 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 1 or 3 hours.

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.

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: Six hours of LLLS 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: Six hours of LLLS 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 1325 - Business Calculus

Limits and continuity, derivatives, graphing and optimization, exponential and logarithmic functions, anti-derivatives, integration, applications to management, economics and business.

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: Appropriate score on placement exam or an Intermediate Algebra course with a grade of C- or better.

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.

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.

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: C- or better (or equivalent).

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: C- or better (or equivalent).

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 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.

MATH 2315 - Calculus III

Vectors and vector valued functions, functions of multiple variables, partial derivatives, multiple integrals, volume and surface area and vector calculus.

MATH 2414 - Calculus II

Differentiation and integration of transcendental functions; parametric equations and polar coordinates; techniques of integration; sequences and series; improper integrals.

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.

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.

MATH 2318 - Linear Algebra

Systems of linear equations; vector spaces, linear transformations, determinants, matrices, eigenvalues and eigenvectors; applications to coding and difference equations.

MATH 2412 - Pre-Calculus Mathematics

In-depth combined study of algebra, trigonometry and other topics for calculus readiness.

MATH 3304 - Algebra Through Technology

Using technology to investigate topics in elementary functions, simultaneous equations, polynomials and elementary topics in number theory.

Prerequisite: College algebra.

MATH 3305 - Euclidian and Non-Euclidian Geometry

Formal set theory, logical structure and measurement.

Prerequisite: College algebra.

MATH 3306 - Problem Solving

Problem solving through experiences and reasoning; ideas from areas such as pattern recognition, simulation and logical deduction.

Prerequisite: MATH 3302, MATH 3304, MATH 3307 or equivalent or instructor permission

MATH 4189 - Independent Study in Mathematics

Prerequisite: Approval of instructor, chair and associate dean.

MATH 4300 - Introduction to Modern Algebra and Number Theory

An introduction to techniques of proof, problem solving and applications using topics from number theory, modern algebra and logic such as groups, rings, fields, congruence classes, modular arithmetic, symmetries, permutations and inductive and deductive argument forms.

Prerequisite: Calculus II.

MATH 4301 - History of the Mathematical Sciences

Temporal relationships of concepts by means of biographic studies; development of mathematical theory and applications from ancient to contemporary times.

MATH 4312 - Number Theory

Properties of divisibility. Prime numbers, congruence arithmetic, quadratic reciprocity and applications of these ideas, an overview of techniques of mathematical proof.

Prerequisite: Calculus and either MATH 3306 or MATH 3311.

MATH 4313 - Introduction to Topology

Topological techniques in analysis, metric spaces, continuous transformations, connectivity, separation, compactness; nets and filters, cardinal arithmetic.

Prerequisite: MATH 4331.

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 3311, MATH 3321, MATH 4311 and C/C++ or equivalent.

MATH 4316 - Mathematic Software Applications

Explores current applications of computers in mathematics using Mathematica. Symbolic, numerical and graphical computing 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 3311 and MATH 4311.

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: Calculus and MATH 3311.

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 3311 and MATH 4311 or equivalent.

MATH 4331 - Advanced Calculus

Set theory. Real number system. Sequences and series. Differentiation. The Riemann integral.

Prerequisite: MATH 3321 or equivalent.

MATH 4341 - Introduction to Analysis

Real numbers, sequences and series, differentiation and measure theory; Riemann, Stieltjes and Lebesgue integrals.

Prerequisite: MATH 4331 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: Calculus II.

MATH 4345 - Introduction to Statistics

Sampling distributions, point and interval estimation, hypothesis testing, regression and correlation, nonparametric statistics, analysis of variance.

Prerequisite: MATH 4344 or equivalent.

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: One semester probability course is preferred.

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 3321 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.

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

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.

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.

Prerequisite: Six semester hours of principles of economics.

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 provides 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 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 ENGL 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 ENGL 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 ENGL 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 introduction of nursing theorists and how nursing theories influence nursing practice today will be the focus of this course.

NURS 3312 - Statistical Techniques for Health Professionals

This course is an introduction to basic statistics. Basic descriptive and inferential methods used in health sciences will be explored.

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 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: Trigonometry

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: Trigonometry

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.

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.

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.

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.

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.

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.

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 3302 or equivalent. Corequisite: PHYS 3103.

PHYS 4101 - Lab Methods in the Physical Sciences

Three laboratory hours per week.

Corequisite: PHYS 4301.

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 4301 - Methods in the Physical Sciences

Recent developments in chemistry, geology and physics; emphasis on teaching the physical sciences from a contemporary viewpoint.

Corequisite: PHYS 4101.

PHYS 4311 - 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: Calculus III

PHYS 4312 - 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 4311 or equivalent.

PHYS 4321 - 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 4322 - Mechanics of Materials

This course is a foundation to many advanced techniques that allow engineers to design structures, predict failures and understand the physical properties of materials. It gives the student basic tools for stress, strain and strength analysis. Methods for determining the stresses, strains and deflections produced by applied loads are learned. Engineering design concepts are integrated.

PHYS 4331 - 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 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 4331 or Instructor approval.

PHYS 4342 - 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 4351 - 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 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.

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 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.

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 4324 - Organizations in Society

Study of several aspects of our organizational society such as roles, power, and membership; investigation of fire service organizations and their influence on individuals.

PSLD 4328 - Social Conflict and Mediation

Examination of theories of social conflict and application of dispute resolution/mediation techniques within fire service organizations.

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 what managers in Fire Services Administration need to know about diversity and minority/majority relations.

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 in Public Leadership

Examination of the unique ethical challenges faced by leaders with an emphasis on building ethical competency.

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 2301 - Introduction to Psychology

Survey of the major psychological topics, theories, and approaches to the scientific study of behavior and mental processes.

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 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.

Prerequisite: Introductory Psychology course.

PSYC 3321 - Learning

Basic principles of learning and how they apply to human behavior.

Prerequisite: PSYC 2301 Introduction to General Psychology.

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 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.

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 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, person perception, self, social influence, relationships, prejudice, helping, and aggression. Theories, research, and application.

Cross-Listed as: SOCI 4311 Social Psychology

PSYC 4312 - Introduction to Marriage and Family Therapy

Introduction to the practice of marriage and family therapy. History of the field. Systems and contextual theory. Major theories and practices. Professional ethics.

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; psychoanalysis, 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 4321 - Applied Behavior Analysis I

Second course in a 3-course sequence to prepare students for the BCaBA. Topics include: introduction to single-subject research design, use of learning principles in applied areas, and ethical issues in behavior analysis.

Prerequisite: Pre- or Co-requisite: PSYC 3321 Learning.

PSYC 4322 - Applied Behavior Analysis II

Third course in a 3-course sequence to prepare students for the BCaBA. Topics include: use of learning principles in applied areas such as education, business, health and human services, and ethical issues in behavior analysis.

Prerequisite: 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 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 - User-Centered Design

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 4346 - Organizational Communication

Examination of general communication processes and dynamics within non-profit and governmental organizations.

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. Throughout, 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

Permutations and combinations, probability, hypothesis testing, sample theory, parameter estimation, frequency functions, and correlation and regression. Applications in the behavioral sciences.

PSYC 4371 - Social Sciences Research Techniques

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 4732 Seminar in Women's Studies, HUMN 5372 Seminar in Women's Studies, PSYC 5372 Seminar in Feminist Theory, and WMST 4732 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.

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: Complete at least 15 hours of psychology courses.

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: Calculus III.

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 4314 - Teaching ESL in the Bilingual Classroom

Methods of teaching English to second language learners in the bilingual classroom. Emphasis on the relationship between native language and second language development.

Prerequisite: SILC 4301.

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 3132 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 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.

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.

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 abroad 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

Macrosocial change from hunting and gathering societies through horticultural and agrarian societies to industrial societies.

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 who 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 an overview of schools and classrooms from the perspectives of language, gender, socioeconomic status, ethnic and academics.

Prerequisite: TCED 1301

SPED 4300 - Survey of Exceptionalities

Provides a study of various categories of disabilities to include etiology and effects of disability on various aspects of development.

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 4300 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 4300 or equivalent, SPED 4311 or equivalent, concurrent enrollment in a TCED or LLLS 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 4300, 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 4300 or equivalent.

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 4300.

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 3308 - Computational Statistics

Descriptive statistics, basic probability concepts, normal distribution, parameter estimation, testing of hypothesis, correlation and regression, statistical computation using Excel.

Prerequisite: College algebra 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: Calculus I; 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 - Data Management and Analysis Using SAS

An introduction to the statistical package SAS. The course will focus on data step programming and some selected base procedures. Topics include inputting and outputting data, processing and managing data, arrays, functions, custom outputs and some basic statistical procedures for analysis.

Prerequisite: Calculus I

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: Calculus II

STAT 4345 - Introduction to Statistics

Sampling distributions, point and interval estimation, hypothesis testing, regression and correlation, nonparametric statistics, analysis of variance.

Prerequisite: Math 4344 or equivalent

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.

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: Calculus I

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 3314.

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 3333.

SWEN 4317 - Introduction to Game Design and Development

Principles of game design and development of software for computer gaming.

Prerequisite: A course in data structures.

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 me 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 3333.

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 3313.

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.

Prerequisite: SWRK 4314 Diversity and Human Development throughout the Life Cycle and SWRK 4324 Oppression, Diversity and Social Justice.

SWRK 4319 - Social Welfare Policy Analysis

Examination of social welfare policy perspectives, models of policy analysis, and contemporary social service/welfare policies.

Prerequisite: SWRK 4317 Social Welfare Policy and Services.

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 and SWRK 4304 Issues and Ethics in Social Work.

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.

Prerequisite: SWRK 4318 Social Work Practice I.

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.

Prerequisite: SWRK 4328 Social Work Practice II.

SWRK 4363 - Research Methods

Design and application of quantitative and qualitative research methods.

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.

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 the 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. Must have approval of BSW faculty. Students may be concurrently enrolled in SWRK 4319 Social Welfare Policy Analysis.

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 faculty.

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 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 - Senior Seminar EC-12

This course is designed to assist students in understanding 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.

Prerequisite: Admission to Teacher Education Program and an approved, signed degree or certification plan on file in the SoE.

TCED 4102 - Senior Seminar II

This course is designed to assist students in understanding 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.

Prerequisite: Admission to Teacher Education Program and an approved, signed degree or certification plan on file in the SoE.

TCED 4103 - Senior Seminar for Secondary Social Studies Programs

This course analyzes the state and federal rules and standards and explores the content for each discipline related to the social studies genre. Completion of the course is dependent upon candidates passing all state assessments required for their degree/certification plan.

Prerequisite: Admission to Teacher Education Program and an approved, signed degree or certification plan on file in the SoE.

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 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 Teacher Education Program, successful completion of or concurrent enrollment in 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 Teacher Education Program, successful completion of or concurrent enrollment in 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 Teacher Education Program; successful completion of or concurrent enrollment in 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, successful completion of or concurrent enrollment in 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, successful completion of or concurrent enrollment in 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, successful completion of or concurrent enrollment in 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 Teacher Education Program, successful completion of or concurrent enrollment in 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 Teacher Education Program, successful completion of or concurrent enrollment in 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 Teacher Education Program, successful completion of or concurrent enrollment in 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.

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- 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

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

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.

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.

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 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: 6 hours of lower-level English; 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: 6 hours of lower-level English; junior-level standing.

WRIT 3315 - Technical Writing

Approaches to the writing of technical documents: proposal reports, manuals, and descriptions.

Prerequisite: 6 hours of lower-level English; junior-level standing.

WRIT 3321 - Tutoring Writing

Prepares students to work as Writing Center peer tutors. Emphasis placed on learning about composing process and tutoring strategies. Permission of instructor required.

Prerequisite: 6 hours of lower-level English; junior-level 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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