Graduation requirements and regulations for every academic program are provided in this catalog. Degree requirements and course descriptions are subject to change. In most cases, you will use the catalog of the year you entered KU (see your academic success coach (https://edwardscampus.ku.edu/program-advisors/) for details). Other years’ catalogs can be found in the catalog archives. Details for the Bachelor of Applied Science in Biotechnology can be found at (http://catalog.ku.edu/professional-studies/biotechnology-bas/). The Bachelor of Arts and Bachelor of General Studies in American Sign Language and Deaf Studies are available at (http://catalog.ku.edu/professional-studies/american-sign-language-ba-bgs/). The Bachelor of Health Sciences catalog is available at (http://catalog.ku.edu/professional-studies/health-sciences-bhs/). The Bachelor of Science in Information Technology can be found at (http://catalog.ku.edu/professional-studies/information-technology-bs/). Undergraduate Certificate in American Sign Language (http://catalog.ku.edu/professional-studies/advanced-american-sign-language-ucert/) is available in both ASL and English interpreting versions. The Bachelor of Arts and Bachelor of General Studies in American Sign Language and Deaf Studies are available at (http://catalog.ku.edu/professional-studies/american-sign-language-ba-bgs/). The Bachelor of Health Sciences catalog is available at (http://catalog.ku.edu/professional-studies/health-sciences-bhs/). The Bachelor of Science in Information Technology can be found at (http://catalog.ku.edu/professional-studies/information-technology-bs/). Undergraduate Certificate in American Sign Language (http://catalog.ku.edu/professional-studies/advanced-american-sign-language-ucert/) is available in both ASL and English interpreting versions. Undergraduate Certificate in Deaf Studies and Social Justice (http://catalog.ku.edu/professional-studies/deaf-studies-social-justice-ucert/) is available. Undergraduate Certificate in Nutrition (http://catalog.ku.edu/professional-studies/nutrition-ucert/) is available. Undergraduate Certificate in Public and Population Health (http://catalog.ku.edu/professional-studies/public-population-health-ucert/) is available. Post-Baccalaureate Certificate in Health Sciences (http://catalog.ku.edu/professional-studies/health-sciences-ucert/) is available. Graduate Certificate in Advanced American Sign Language (http://catalog.ku.edu/professional-studies/advanced-american-sign-language-gcert/) is available in both ASL and English interpreting versions. Graduate Certificate in Deaf Studies and Social Justice (http://catalog.ku.edu/professional-studies/deaf-studies-social-justice-gcert/) is available. Graduate Certificate in Foundations of Engineering Management (http://catalog.ku.edu/professional-studies/foundations-engineering-management-gcert/) is available. Graduate Certificate in Foundations of Project Management (http://catalog.ku.edu/professional-studies/foundations-project-management-gcert/) is available. Graduate Certificate in Professional Workplace Communication (http://catalog.ku.edu/professional-studies/professional-workplace-communication-gcert/) is available. Graduate Certificate in Science Management (http://catalog.ku.edu/professional-studies/science-management-gcert/) is available. Master of Engineering in Project Management (http://catalog.ku.edu/professional-studies/project-management-me-ms/) is available. Master of Science in Project Management (http://catalog.ku.edu/professional-studies/project-management-me-ms/) is available. Master of Science in Engineering Management (http://catalog.ku.edu/professional-studies/engineering-management-ms/) is available. Minor in Biotechnology (http://catalog.ku.edu/professional-studies/biotechnology-minor/) is available. Minor in Nutrition (http://catalog.ku.edu/professional-studies/nutrition-minor/) is available. Minor in Public and Population Health (http://catalog.ku.edu/professional-studies/public-population-health-minor/) is available. The KUEC School of Professional Studies provide high-quality academic programs, research activities, and engaged learning initiatives that meet workforce, economic, and student needs. Our work is guided by our
shared commitment to the values of collaboration, innovation, and social equity as we serve our students and the community.

The School of Professional Studies is a University of Kansas academic unit designed and charged with serving the needs of non-traditional and transfer students in the Kansas City metro area and nationally. The undergraduate programs in the School of Professional Studies are interdisciplinary degree completion programs aimed at preparing students for high demand workforce needs.

In partnership with their academic success coach, it is the students’ responsibility to become thoroughly acquainted with all requirements for the degree programs in which they plan to participate. These include all university requirements, as well as the requirements of the School of Professional Studies outlined in this section of the catalog. Students are also responsible for understanding the requirements that are unique to individual programs. By taking an active role in their undergraduate education, students maximize the value of their KU experience.

The school offers undergraduate programs in:

- American Sign Language and Deaf Studies
- Biotechnology
- Health Sciences
- Information Technology
- Nutrition
- Public and Population Health

View additional undergraduate programs offered at the KU Edwards Campus (https://edwardscampus.ku.edu/academic-programs/#undergraduate).

Admission

Information on undergraduate admission standards and requirements, as well as application procedures and deadlines, is found on the School of Professional Studies Programs pages. Visit the Office of Admissions (http://admissions.ku.edu/) for information about admission to KU. Visit the Office of International Support Services (http://www.iss.ku.edu/) for information about international admissions. Students interested in pursuing a degree in the School of Professional Studies should meet with an academic success coach to learn more.

Advising

To ensure student success, all students in the School of Professional Studies will work with an academic success coach (https://edwardscampus.ku.edu/student-services/program-info/) through their time at KU. Coaches work with students from the admissions process through graduation. For advising information, contact 913-897-8539 or visit https://edwardscampus.ku.edu/student-services/program-info/#coach.

Transfer Communities

Transfer Communities (https://edwardscampus.ku.edu/student-services/communities/) at the KU Edwards Campus are an integrated program designed to help you transition seamlessly to KUEC while you’re achieving your Associate’s Degree from your community college. These program-specific experiences will connect you to events, career conversations, faculty, staff and peers with similar goals and interests to create a true community while you pursue your degree.

University Honors Program

The School encourages qualified students to participate in the Edwards Campus Honors Program (https://edwardscampus.ku.edu/honors/). The KU Edwards Campus Honors Program is here to help you get the most out of your college experience, whether you’re transferring from a community college honors program, or just getting started on your honors journey.

The School of Professional Studies is a University of Kansas academic unit that serves the needs of professionals in the Kansas City metro area and nationally. The graduate programs in the School of Professional Studies are interdisciplinary terminal degree programs aimed at preparing students for high demand workforce needs.

The school offers graduate programs in:

- Advanced American Sign Language
- ASL/English Interpreting
- Deaf Studies and Social Justice
- Engineering Management
- Project Management
- Professional Workplace Communication
- Science Management

View additional graduate programs offered at the KU Edwards Campus (https://edwardscampus.ku.edu/academic-programs/#graduate).

Degree Requirements

Requirements for the completion of master’s degrees in the School of Professional Studies are governed by department- or program-specific policy, School policies and procedures, Graduate Studies policies, and the University Senate Rules and Regulations.

Information on degree requirements presented in this section is limited to the most frequently consulted policies and key milestones in the graduate career. Students will find additional information under the KU Policy Library (http://policy.ku.edu/), the Graduate Studies (https://catalog.ku.edu/graduate-studies/) and College’s graduate regulations sections of the online catalog, the academic unit’s handbook, and the University of Kansas Rules and Regulations (https://catalog.ku.edu/regulations/).

Admission

Information on graduate admission standards and requirements, as well as application procedures and deadlines, is found on the School of Professional Studies Programs pages. Visit Graduate Studies Admission (https://graduate.ku.edu/prospective-students/) for information about admission to KU. Visit the Office of International Support Services (http://www.iss.ku.edu/) for information about international admissions. Students interested in pursuing a degree in the School of Professional Studies should meet with an academic success coach to learn more.

Advising

To ensure student success, all students in the School of Professional Studies will work with an academic success coach (https://edwardscampus.ku.edu/student-services/program-info/) through their time at KU. Coaches work with students from the admissions process through graduation. For advising information, contact 913-897-8539 or visit https://
edwardscampus.ku.edu/student-services/program-info/#coach)

To ensure student success, all students in the School of Professional Studies will work with an academic success coach (edwardscampus.ku.edu/student-services/program-info/#coach) through their time at KU. Coaches work with students from the admissions process through graduation. For advising information, contact 913-897-8539 or visit https://edwardscampus.ku.edu/student-services/program-info/#coach.

Undergraduate & Graduate Scholarships and Financial Aid

The School of Professional Studies seeks to make the KU experience affordable to all students and encourages all students to explore the affordability (https://edwardscampus.ku.edu/edwards-campus-tuition-fees/) options available through KU Edwards. Additional scholarship resources can be found through the KU Edwards Financial Aid and Scholarship (https://edwardscampus.ku.edu/financial-aid-scholarships/) and Financial Aid and Scholarships (http://affordability.ku.edu/steps/index.shtml/).

Metro KC Tuition Rate

The KU Edwards Campus Metro KC Rate (https://edwardscampus.ku.edu/metrokc-tuition-rate/) offers tuition equivalent to in-state rates for Missouri residents who meet the qualifications below. No credit hour limit applies. To receive this special rate, please fill out the Metro KC Rate (http://edwardscampus.ku.edu/edwards-campus-metrokc-application/).

To receive a need-based scholarships, the student must have submitted the FAFSA form (http://www.fafsa.ed.gov/) and been determined to be eligible. Merit-based scholarships also are offered.

Additional funds may be available from the University of Kansas Financial Aid & Scholarships (http://affordability.ku.edu/).

Graduate Fellowships and Assistantships

Visit the Graduate Studies website for information about funding opportunities (http://graduate.ku.edu/funding/) for graduate students at KU.

Financial Aid and Scholarships (http://affordability.ku.edu/steps/index.shtml/) administers grants, loans, and need-based financial aid.

For more information about University regulations, see Regulations (https://catalog.ku.edu/regulations/) or visit the University of Kansas Policy Library (http://www.policy.ku.edu/).

Undergraduate Regulations

Absences

A student with excessive absences may be withdrawn from the course by the Dean. Instructors may require a certain level of attendance for passing a course and may drop a student for lack of attendance without the student’s consent.

Change of School

Students with a KU cumulative GPA of 2.00 or higher (or in their first semester) can fill out a Change of School form requesting to be admitted to the School of Professional Studies, from a different KU school, through the last day of class for the current semester. Requests made after that will be for admission in the upcoming semester. This process is for active KU students. Students not admitted to KU follow the University’s admission policy.

Credit/No Credit

A Credit/No Credit option is available to all degree-seeking undergraduates. Students may enroll in one course a semester under the option if the course is not in your major or minor. For more information, visit the KU Policy Library (http://policy.ku.edu/).

Warning: Certain undesirable consequences may result from exercising the option. Some schools, scholarship committees, and honor societies do not accept this grading system and convert grades of No Credit to F when computing grade-point averages. Always check with your advisor before electing C/NC as policies vary from program to program.

Graduation with Distinction and Highest Distinction

Students who rank in the upper 10 percent (KU cumulative GPA) of their graduating class graduate with distinction. The upper third of those awarded distinction graduate with highest distinction. The list is compiled each spring and includes July, December, and May graduates.

Honor Roll (Dean’s List)

Students with grade-point averages of 3.75 who have completed at least 12 hours with letter grades are recognized on the honor roll or dean’s list in fall and spring. Credit/No Credit grades are not accepted. S grades are accepted. An honor roll notation appears on the transcript.

Maximum and Minimum Semester Enrollment

No student may enroll in more than 20 hours a semester, or more than 9 hours in a summer session without permission from an undergraduate advisor.

Nonresidence Study Before the Last 30 Hours

Before the last 30 hours required for the degree, students may, under certain conditions, take courses at other institutions and transfer the credit to KU. Before enrolling in a nonresidence course, check on how your courses will transfer to KU (https://admissions.ku.edu/transfer-requirements-deadlines/transfer-college-credits/) or complete KU’s standard form, Request for Tentative Evaluation of Transfer Credit, in your dean’s office or student services office. After completing the coursework, you must request that an official transcript be sent to the Office of Admissions (http://admissions.ku.edu/whyku/index.shtml/), KU Visitor Center, 1502 Iowa St., Lawrence, KS 66044-7576, 785-864-3911. For transcripts to be official, they must be mailed from the college or university directly to KU. Faxed transcripts are not accepted for posting of transfer credit. Nonresidence credit includes all credits from another college or university taken after initial enrollment at KU, military service courses, and other undergraduate course work not formally offered in the Schedule of Classes (https://catalog.ku.edu/). Majors must submit the Request for Tentative Evaluation of Transfer Credit form before they enroll.

Prerequisites and Corequisites

Students are advised to enroll according to prerequisites and corequisites noted in individual course descriptions. Prerequisite waivers are used at the discretion of the Associate Dean of the School of Professional Studies and the appropriate academic program director.

Probation
Good Standing

Students with a KU cumulative GPA of 2.0 or higher are in good academic standing.

Placed on Probation

A student whose KU cumulative grade-point average falls below a 2.0 is placed on probation for the following semester.

Continued on Probation

A student on probation is continued on probation for one more semester if the KU semester grade-point average is not yet a 2.0 but progress is being made as determined by a faculty committee.

Returned to Good Standing

A student on probation is returned to good standing if the KU cumulative grade-point-average is at least 2.0.

Dismissal

A student on probation is dismissed for failure to earn a KU cumulative grade-point average of at least 2.0 in the next semester of enrollment after two consecutive semesters on probation. Students who are dismissed are dropped from any courses enrolled in for future semesters. Students who are dismissed may appeal the dismissal through the School of Professional Studies faculty committee. A student reinstated is continued on probation and has one semester to return to good standing. Students dismissed by the School may apply to another KU school or the College by completing a Change of School form.

Reinstatement after Dismissal

Students who have been dismissed may apply for readmission through the regular admissions process. Students applying for readmission after dismissal must have successfully completed any requirements set by the School of Professional Studies for readmission, if any.

Repetition of Courses

The School of Professional Studies follows the University’s course repeat and grade replacement policy.

Required Work in Residence

To earn a bachelor’s degree from KU, you must complete the last 30 hours of credit for the degree by resident study. Students may petition the dean for a waiver. Up to 6 hours of work completed at another institution may be accepted as part of the last 30 hours, if the hours are not in required courses in the major. If a student completes more than 6 of the last 30 hours at another college, they must complete additional KU course work to graduate. Transfer courses must be completed with a C or higher. Always check with your advisor concerning enrollment as part of the last 30 hours of your degree.

Transfer of Credit

CredTran (http://credittransfer.ku.edu/) is an undergraduate transfer course equivalency system that lists more than 2,200 colleges and universities from which KU has accepted transfer courses in the past. If a student’s school or course is not listed, the evaluation will be completed when the student is admitted to KU.

Courses completed at other institutions are accepted to fulfill graduation requirements (e.g., in place of specifically prescribed courses) only if they are substantially equivalent as indicated by course description, hours of credit, and prerequisites. For courses not listed on CredTran (http://credittransfer.ku.edu/), the student must submit a petition along with a course syllabus to the School of Professional Studies. Petition forms are available by contacting a School of Professional Studies academic success coach (https://edwardscampus.ku.edu/program-advisors/).

Only transfer grades of C- or higher apply toward graduation from the School of Professional Studies.

Graduate Regulations

It is the students’ responsibility to comply with all requirements for the degree programs in which they plan to participate. These include the university requirements for graduate study at KU outlined in the Graduate Studies sections of the KU Policy Library (http://www.policy.ku.edu/), the University Senate Rules and Regulations (https://catalog.ku.edu/regulations/), the Graduate Studies (https://catalog.ku.edu/graduate-studies/) sections of the online catalog, as well as the requirements of the School of Professional Studies outlined in this catalog section. Additionally, students are responsible for understanding the requirements that are unique to individual graduate programs listed herein.

To ensure student support navigating these processes, all students in the School of Professional Studies will work with an academic success coach (https://edwardscampus.ku.edu/student-services/program-info/) through their time at KU. Coaches work with students from the admissions process through graduation. To connect with your coach, contact 913-897-8539 or visit https://edwardscampus.ku.edu/student-services/program-info#coach (https://edwardscampus.ku.edu/student-services/program-info#coach).

Admission

Graduate Studies defines the eligibility and admission criteria (https://catalog.ku.edu/graduate-studies/#admissiontext) for different categories of admission to graduate study at the University of Kansas. Further details of program specific admission, provisional admission, and readmission information can be found at https://edwardscampus.ku.edu/school-professional-studies/ (https://edwardscampus.ku.edu/school-professional-studies/).

Enrollment

Full-time, Half-Time and Part-Time Enrollment

Please see the Full-time Enrollment policy in the Graduate Studies (https://catalog.ku.edu/graduate-studies/) section of the online catalog and the KU Policy Library (http://policy.ku.edu/) for the definitions of full-time, half-time, and part-time enrollment.

Maximum enrollment for graduate students in the School of Professional Studies is 16 hours in Fall or Spring semester and 9 hours in the Summer session. Students may appeal to their program for exceptions.

At a minimum, all graduate students must be continuously enrolled in the Fall and Spring semesters while completing the requirements for fulfillment of their degree. Please consult the Graduate Studies (https://catalog.ku.edu/graduate-studies/) section of the online catalog and the KU Policy Library (http://policy.ku.edu/) for other enrollment regulations.
Probation and Dismissal Guidelines

To be in good standing, a student must maintain a 3.0 cumulative grade-point average and be making satisfactory progress toward the degree, as determined by Graduate Studies’ Good Academic Standing policy and the department or program’s internal guidelines. The Good Academic Standing policy may be found in the Graduate Studies (https://catalog.ku.edu/graduate-studies/) section of the online catalog and the KU Policy Library. (http://policy.ku.edu/)

Probation Due to GPA

In any semester, a student whose cumulative GPA has fallen below a 3.0 is automatically placed on academic probation for the following semester (Fall or Spring). Students are notified by the School of Professional Studies of their probationary status. Students are removed from probation once the 3.0 CUM GPA is regained. Once a student is on probation they must maintain at least a 3.0 semester (Fall, Spring, Summer) GPA to maintain progress towards removal from probation. Failure to do so will result in a review that could result in dismissal.

Dismissal

It is the academic unit’s responsibility to ensure that students who are not demonstrating academic achievement sufficient to meet the requirements of a School of Professional Studies graduate degree are dismissed from their programs. This typically occurs when a student fails to meet the terms of the probationary period. Academic dismissal should occur immediately following a student’s failure to meet the terms of the probationary period. The School will notify the student in writing of the reasons for their dismissal.

A student who has been dismissed from a graduate program at KU is not eligible for readmission to graduate study in any department or program at the University of Kansas. A student may petition for an exception. The petition must be approved by the department to which the student intends to apply, the graduate division of the College, and the Dean of Graduate Studies. Such petitions are rarely approved.

University Regulations on Grading

Article II of the University Senate Rules and Regulations provides detailed information on regulations governing the grading of graduate coursework. Students should also consult the Graduate Studies (https://catalog.ku.edu/graduate-studies/) section of the online catalog and the KU Policy Library (http://policy.ku.edu/) for more information on the Grading Policy.

Time Limits

The University has established time limits governing various stages of the graduate student career.

Maximum Time to Count Required Course Work

Courses completed at the University of Kansas, or transfer credits from another university, are valid for a period of 10 years. With the endorsement of their graduate programs, students may petition the School to accept out-of-date course work to fulfill the requirements for their graduate degrees, provided they are able to justify why this course work meets the current standards of scholarship in the discipline.

Maximum Time to Complete the Degree

Graduate Studies has established time limits on master’s and doctoral degree completion. Please see Graduate Studies policies on Doctoral Program Time Constraints and Master’s Program Time Constraints in the Graduate Studies (https://catalog.ku.edu/graduate-studies/) sections of the online catalog and in the KU Policy Library (http://policy.ku.edu/) for full details. Master’s degree students have a total of seven calendar years, excluding any periods of absence due to an approved leave of absence or voluntary discontinuation from a program, in which to complete the work for a master’s degree.

A time limit extension may be granted by the School. All extension petitions require the department to prepare and submit a Graduate Degree Completion Agreement, which must then be approved by the School of Professional Studies Academic Council. Per Graduate Studies policy, extensions may be granted for up to 1 year. However, additional time may be requested in the Completion Agreement. If a Completion Agreement with a timeline greater than one year is approved, the department must submit a renewal petition annually after the first year until the Completion Agreement has ended. Renewal petitions must indicate the student’s progress on the Completion Agreement and will receive expedited review.

Academic units may set their own, more rigorous time limits. Consult with your advisor and review your academic unit’s handbook and the relevant Departments and Programs section of the online catalog for program-specific information, requirements, and restrictions.

Academic and Research Integrity

The School of Professional Studies strictly enforces KU and School policies on academic and scholarly misconduct. Academic integrity requires honest performance of academic and research responsibilities by students. These include, but are not limited to, ethical preparation of assignments, reports, and research papers; completion of examinations; ethical treatment of human and animal subjects; execution of administrative requirements; and a sincere and conscientious effort by students to abide by the policies set forth by instructors and research advisors. See the School of Professional Studies website (https://edwardscampus.ku.edu/school-professional-studies/) for procedures for misconduct and grievances.

Graduation

All graduate students must be enrolled the semester they complete all degree requirements.

Graduate Studies establishes an early deadline for degree completion for each semester and summer session, usually occurring at the end of the first 2 weeks of a semester or the end of the first week of summer session. If the student was enrolled the previous semester and meets all degree requirements including the submission of all required documentation by the early deadline, they are not required to enroll for that semester.

The final Graduate Application for Graduation deadline is set by the Registrar for each semester. Please consult the official Academic Calendar (https://registrar.ku.edu/calendar/) for specific dates. To be eligible for graduation, an application for degree must be submitted and all
degree requirements met by this deadline. This includes the submission of all required documentation to the School of Professional Studies.

The School of Professional Studies and KU Edwards Campus (https://edwardscampus.ku.edu/student-services/career-skills/) is committed to helping you accomplish your career goals, and offers resources to help you find career solutions on how to navigate the career change process, career mobility, and/or develop strategies for that first career conversation.

University Career Center

The University Career Center (https://career.ku.edu/), Summerfield Hall, Room 206, (785-864-3624), provides career counseling and services for all KU students, including students in the School of Professional Studies, both in person as well as online through Jayhawk Ready (https://jayhawkready.tuapath.com/).

Courses

ASLD 311. Introduction to Deaf Studies. 3 Hours AE41.
Students in the course will learn about the world of the deaf in America, deaf culture, the education of deaf children, useful technology, and the integration of deaf people into the American society. This introductory course is for students interested in fields, such as audiology; speech-language pathology; medicine; education; school, rehabilitation and mental health counseling; psychology; interpreting; ASL and deaf studies; and for anyone with a deaf person in his or her life. This course is offered at the 300 and 600 level with additional assignments at the 600 Level. Not open to students with credit in ASLD 611. LEC.

ASLD 312. Intersectionality and Deaf Communities. 3 Hours.
This course brings students to the next level of understanding of the impact and role of various identities within the Deaf communities on the international and national levels, following the framework of intersectionality. Intersectionality conceptualizes the various identities, ethnicities, linguistic uses and experiences of persons, groups of people, or social problems in the world of deaf. Intersectionality looks at deaf people’s overlapping identities and experiences in order to understand the complexity of prejudices they face due to their deaf, race, class, gender, sexual orientation, religion, and other identity markers. This course is offered at the 300 and 600 level with additional assignments at the 600 Level. Not open to students with credit in ASLD 612. LEC.

ASLD 313. Social Justice and Allyship with Deaf Communities. 3 Hours.
Students are introduced to the concept of allyship as one of the tenets of social justice and the process of allyship and social justice in the Deaf communities. Allyship involves support and empowerment of individuals or people experiencing oppression. Within the Deaf communities, there are varieties of Deaf individuals or peoples, such as Deaf Blacks, Deaf Native Americans, and LGBTQI. Students will learn what it means to be an ally, a process of social justice. This course is offered at the 300 and 600 level with additional assignments at the 600 Level. Not open to students with credit in ASLD 613. Prerequisite: ASLD 311 or instructor permission. LEC.

ASLD 414. Historical Foundations of Deaf Education. 3 Hours.
This course engages in the study of the development of deaf educational policy, practice, and theory in relation to changes in social institutions and thought regarding language, education and cultural and medical models in the education of and for the deaf. It focuses on the analysis of contemporary deaf educational problems in the light of historical perspectives. This course is offered at the 400 and 600 level with additional assignments at the 600 Level. Not open to students with credit in ASLD 614. LEC.

ASLD 428. Special Topics in Deaf Studies: ____. 3 Hours.
Students will gain an in depth understanding of the social life of deaf people by choosing an area of focus. Since this is a special topics course, students interested in gaining knowledge through research about deaf social life, will choose a timely area of study in a field, such as anthropology, economics, geography, history, political science, psychology, and sociology. An example of a timely area of study in Deaf Studies is Deaf gain. Through an individualized course design, students may choose the approach of immersion in Deaf community, defined literature review, or other activity to gain an in depth understanding. This course is offered at the 400 and 600 level with additional assignments at the 600 Level. Not open to students with credit in ASLD 628 if topic is the same. LEC.

ASLD 501. Introduction to the ASL/English Interpreting Profession. 3 Hours.
This course provides an introduction to interpreting as an occupation. Students will come to understand the history of interpreting along with the importance of interpersonal communication skills, professional ethics, parameters of responsibilities, community resources and legal ramifications as they relate to the interpreter. This course is offered at the 500 and 700 level with additional assignments at the 700 Level. Not open to students with credit in ASLD 701. Prerequisite: ASL IV or Instructor permission. LEC.

ASLD 502. Theories of Interpreting: Co-Constructions of Meaning. 3 Hours.
This course provides an introduction to current theories in the processes of translation and interpreting through a lens of meaning-based analysis and co-construction of meaning. Students will come to understand and apply several theoretical constructs as they perform intra- and interlingual exercises. This course is offered at the 500 and 700 level with additional assignments at the 700 Level. Not open to students with credit in ASLD 702. Prerequisite: ASLD 501 or ASLD 701 and ASLD 521 or 721 with a minimum of a C; B recommended or Instructor Approval. LEC.

ASLD 505. American Sign Language V (ASL V). 3 Hours.
This course is the expanded study of ASL IV with emphasis on increased conversation skills, vocabulary, storytelling, knowledge of Deaf culture and the Deaf community. Vocabulary is enhanced through the introduction of various content areas dealing with current events, world affairs, literature, the arts and abstract ideas. Students participate in group discussions, speculate, make analogies, give instructions, and express feelings and intentions. This course is offered at the 500 and 700 level with additional assignments at the 700 Level. Not open to students with credit in ASLD 705. Prerequisite: ASL IV or instructor approval. LEC.

ASLD 506. American Sign Language VI (ASL VI). 3 Hours.
This course is continuing from ASLD 505 ASL V. Students focus on discourse, variation in sign language use, and understanding how the Deaf community is part of a linguistic and cultural minority. Topics that will be covered include perspectives on Deafhood, attitudes toward deaf people and signed languages, technology and communication. Students will expand on vocabulary by working on areas of advanced subject matter, application of non-manual markers, use of classifiers, and proper pronominalization. This course is offered at the 500 and 700 level with additional assignments at the 700 Level. Not open to students with credit in ASLD 706. Prerequisite: ASLD 505 or ASLD 705 or instructor approval. LEC.

ASLD 520. American Sign Language Linguistics. 3 Hours.
In this course, students take an analytical approach to language and the field of linguistics as it applies to American Sign Language. ASL
phonology, morphology, syntax, semantics, bilingualism, language use and usage will be examined and discussed. Language samples will be viewed and analyzed for evidence of different language structures and forms. Students will also read and critique research articles pertaining to ASL and other signed languages. This course is offered at the 500 and 700 level with additional assignments at the 700 Level. Not open to students with credit in ASLD 720. Prerequisite: ASL IV or instructor approval. LEC.

ASLD 521. Discourse Analysis of ASL. 3 Hours.
This course focuses on analysis of ASL Discourse structure and features, such as use of space for cohesion, depiction, discourse markers, and use of classifiers. The course also focuses on the use of ASL discourse in formal and informal settings. Students study the genres of dialogues, public speaking, artistic expression, debate, persuasive and narrative styles in ASL. This course is offered at the 500 and 700 level with additional assignments at the 700 Level. Not open to students with credit in ASLD 721. Prerequisite: ASL V with a minimum grade of C; B recommended or instructor approval. LEC.

ASLD 523. ASL Pragmatics and Syntax. 3 Hours.
This course will focus on the study of syntactic structure and its interaction with meaning. Word order, lexical categories, sentence types, clause structure, topicalization and sentences with transitive, intransitive and agreement verbs are studied. This course is offered at the 500 and 700 level with additional assignments at the 700 Level. Not open to students with credit in ASLD 723. Prerequisite: ASLD 520 or ASLD 720. LEC.

ASLD 524. Visual-Gestural Communication. 3 Hours.
Students will develop capabilities in non-verbal communication and visual gestural communication utilizing the study of gestures as a form of communication and basis for visual language. Emphasis is on learning to think visually in pictures and building production and comprehension communication skills. This course is offered at the 500 and 700 level with additional assignments at the 700 Level. Not open to students with credit in ASLD 724. Prerequisite: ASLD 520 or ASLD 720. LEC.

ASLD 530. American Sign Language Literature. 3 Hours.
This course will provide basic introduction, discussion, and demonstration of literature in American Sign Language (ASL). Such literature involves ASL Poetry, ASL Storytelling/ Narratives, Deaf Humor, Deaf Folklore and other genres that have been passed on from one generation to another by culturally Deaf people. Students will receive, analyze and retell a variety of ASL literature. This course is offered at the 500 and 700 level with additional assignments at the 700 Level. Not open to students with credit in ASLD 730. Prerequisite: ASL IV or instructor approval. LEC.

ASLD 588. Internship in American Sign Language and Deaf Studies. 1-3 Hours.
This course provides opportunities for students to have direct interaction with Deaf, Hard of Hearing, DeafBlind community members in order to apply cultural, linguistic and power/privilege concepts learned in the classroom. Students must complete 50 hours per credit hour. Schedule will be determined by student and instructor. This course is offered at the 500 and 700 level with additional assignments at the 700 Level. Not open to students with credit in ASLD 788. Prerequisite: Instructor approval. INT.

ASLD 589. Research Experience in American Sign Language and Deaf Studies. 3 Hours.
This course guides the students in reading, understanding and evaluating current research in ASL, Deaf Studies, ASL/English interpreting and related fields. Students will learn how to publish a paper and present a poster on a chosen topic of their interest. This course is offered at the 500 and 700 level with additional assignments at the 700 Level. Not open to students with credit in ASLD 789. Prerequisite: Instructor approval. RSH.

ASLD 603. Interpreting: Mediated Interactions in Communications. 3 Hours.
This course provides an introduction to real-time interpreting in mediated interaction contexts through a lens of meaning-based analysis and co-construction of meaning. Students will come to understand and apply theories, decision-making and engage in reflective practice. This course is offered at the 600 and 800 level with additional assignments at the 800 Level. Not open to students with credit in ASLD 803. Prerequisite: ASLD 501 or ASLD 701, ASLD 502 or ASLD 702 with a minimum grade of B or instructor approval. LEC.

ASLD 604. Interpreting: ASL to English. 3 Hours.
This course provides an introduction to real-time interpreting with an emphasis on ASL source materials through a lens of meaning-based analysis and co-construction of meaning. Students will come to understand and apply theories and engage in reflective practice. This course is offered at the 600 and 800 level with additional assignments at the 800 Level. Not open to students with credit in ASLD 804. Prerequisite: ASLD 501 or ASLD 701, ASLD 502 or ASLD 702 and ASL proficiency or instructor approval. LEC.

ASLD 605. Interpreting: English to ASL. 3 Hours.
This course provides an introduction to real-time interpreting with an emphasis on English source materials through a lens of meaning-based analysis and co-construction of meaning. Students will come to understand and apply theories and engage in reflective practice. This course is offered at the 600 and 800 level with additional assignments at the 800 Level. Not open to students with credit in ASLD 805. Prerequisite: ASLD 501 or ASLD 701, ASLD 502 or ASLD 702 and ASL proficiency. LEC.

ASLD 606. Interpreting: Diverse Communities. 3 Hours.
This course examines language, culture and identity and the implications when interpreting among diverse populations. Students will apply interpreting theories, decision-making and reflective practice to both monologue and dialogic materials in both ASL and English. This course is offered at the 600 and 800 level with additional assignments at the 800 Level. Not open to students with credit in ASLD 806. Prerequisite: ASLD 603 or ASLD 803, ASLD 604 or ASLD 804, ASLD 605 or ASLD 805 or instructor approval. LEC.

ASLD 607. Ethics and Professionalization for Interpreters. 3 Hours.
This course examines ethics as it relates to the work of interpreting through study of ethical codes of conduct, models of decision-making and elements of becoming an ethical professional. Students will come to understand the complexities of ethical decision-making and the importance of self-awareness, reflective practice and responsibility as they consider implications on micro and macro levels. This course is offered at the 600 and 800 level with additional assignments at the 800 Level. Not open to students with credit in ASLD 807. Prerequisite: ASLD 603 or ASLD 803 or instructor approval. LEC.

ASLD 608. ASL/English Interpreting Observation Practicum. 1-6 Hours.
This practicum requires a minimum of 50 hours of observation, shadowing, teaming, professional responsibilities, duties, and/or activities (e.g., scheduling, preparation, invoicing, meetings, and in-service training) in authentic settings where interpreters are employed. Discussion and analysis will occur with instructor and peers on-line and in –person throughout the semester. Prerequisite: ASLD 603 or ASLD 803 with a minimum grade of B or instructor approval. FLD.

ASLD 609. Practicum in American Sign Language Interpreting. 1-6 Hours.
This practicum requires 250 hours of field experience which may include observation, shadowing, teaming, professional responsibilities, duties,
and/or activities (e.g., scheduling, preparation, invoicing, meetings, and in-service training) in authentic settings where interpreters are employed. A minimum of 90 hours will be direct provision of interpreting under the supervision of a certified interpreter. Discussion and analysis will occur with instructor and peers on-line and in-person throughout the semester. Students will consult with their advisor prior to enrolling in the course. Students are required to complete a minimum of 3 credit hours to complete the ASLD 609 requirements. This 250 hour practicum may be completed in one semester by enrolling in 3 credit hours, or can be completed over multiple semesters. This course is offered at the 600 and 800 level with additional assignments at the 800 Level. Not open to students with credit in ASLD 809. Prerequisite: ASLD 603 or ASLD 803, ASLD 604 or ASLD 804, ASLD 605 or ASLD 805, ASLD 608 or ASLD 808 with a minimum grade of a B, and completion of an interpreting proficiency exam or instructor approval. FLDS.

ASLD 610. Psychological Effects of Interpreting. 3 Hours.
This course examines both affective and cognitive psychological effects on interpreting practitioners. The importance of self-care, reflective practice, case-conferencing; as well as vicarious trauma, compassion fatigue, role-space, power and privilege are among topics discussed. This course is offered at the 600 and 800 level with additional assignments at the 800 Level. Not open to students with credit in ASLD 810. Prerequisite: ASLD 603 or ASLD 803 or instructor approval. LEC.

ASLD 611. Introduction to Deaf Studies. 3 Hours.
Students in the course will learn about the world of the deaf in America, deaf culture, the education of deaf children, useful technology, and the integration of deaf people into the American society. This introductory course is for students interested in fields, such as audiology; speech-language pathology; medicine; education; school, rehabilitation and mental health counseling; psychology; interpreting; ASL and deaf studies; and for anyone with a deaf person in his or her life. This course is offered at the 300 and 600 level with additional assignments at the 600 Level. Not open to students with credit in ASLD 810. Prerequisite: ASLD 603 or ASLD 803 or instructor approval. LEC.

ASLD 612. Intersectionality and Deaf Communities. 3 Hours.
This course brings students to the next level of understanding of the impact and role of various identities within the Deaf communities on the international and national levels, following the framework of intersectionality. Intersectionality conceptualizes the various identities, ethnicities, linguistic uses and experiences of persons, groups of people, or social problems in the world of deaf. Intersectionality looks at deaf people’s overlapping identities and experiences in order to understand the complexity of prejudices they face due to their deaf, race, class, gender, sexual orientation, religion, and other identity markers. This course is offered at the 300 and 600 level with additional assignments at the 600 Level. Not open to students with credit in ASLD 311. Prerequisite: Graduate standing or Instructor permission. LEC.

ASLD 613. Social Justice and Allyship with Deaf Communities. 3 Hours.
Students are introduced to the concept of allyship as one of the tenets of social justice and the process of allyship and social justice in the Deaf communities. Allyship involves support and empowerment of individuals or people experiencing oppression. Within the Deaf communities, there are varieties of Deaf individuals or peoples, such as Deaf Blacks, Deaf Native Americans, and LGBTQI. Students will learn what it means to be an ally, a process of social justice. This course is offered at the 300 and 600 level with additional assignments at the 600 Level. Not open to students with credit in ASLD 313. Prerequisite: ASLD 311, ASLD 611 or Instructor permission. LEC.

ASLD 614. Historical Foundations of Deaf Education. 3 Hours.
This course engages in the study of the development of deaf educational policy, practice, and theory in relation to changes in social institutions and thought regarding language, education and cultural and medical models in the education of and for the deaf. It focuses on the analysis of contemporary deaf educational problems in the light of historical perspectives. This course is offered at the 400 and 600 level with additional assignments at the 600 Level. Not open to students with credit in ASLD 414. Prerequisite: Graduate standing or Instructor permission. LEC.

ASLD 615. Business Practices for Interpreters. 3 Hours.
This course will provide students an introduction to business practices for interpreters. Concepts explored will include resume development, interview skills, invoicing, record keeping for tax purposes, certification maintenance and licensure renewal, etc. This course is offered at the 600 and 800 level with additional assignments at the 800 Level. Not open to students with credit in ASLD 815. Prerequisite: ASLD 603 or ASLD 803, ASLD 604 or ASLD 804, ASLD 605 or ASLD 805 or ASLD 805 or instructor approval. LEC.

ASLD 616. Interpreting: Dynamic Paralinguistic Demands. 3 Hours.
This course examines a variety of paralinguistic demands in the context of interpreting. Types of demands will include emotional communication, accents, regional dialects, physical and mental factors (Cerebral Palsy, injuries, etc.), fast paced communication, etc. Students will apply interpreting theories, decision-making and reflective practice to both monologue and dialogic materials in both ASL and English. This course is offered at the 600 and 800 level with additional assignments at the 800 Level. Not open to students with credit in ASLD 816. Prerequisite: ASLD 603 or ASLD 803, ASLD 604 or ASLD 804, ASLD 605 or ASLD 805 or instructor approval. LEC.

ASLD 626. Topics in ASL Vocabulary and Discourse: ______. 3 Hours.
This course will expand the interpreter training students’ vocabulary related to specialized fields and technical contexts. Students will enhance terminology in medical, mental health, education, religion, sex, drugs/alcohol and strong language/culturally rich ASL. Students’ development of comprehension and production skills in common formal and informal settings will be emphasized. This course is offered at the 600 and 800 level with additional assignments at the 800 Level. Not open to students with credit in ASLD 826 if topic is the same. Prerequisite: ASL IV or instructor approval. LEC.

ASLD 628. Special Topics in Deaf Studies: ______. 3 Hours.
Students will gain an in-depth understanding of the social life of deaf people by choosing an area of focus. Since this is a special topics course, students, interested in gaining knowledge through research about deaf social life, will choose a timely area of study in a field, such as anthropology, economics, geography, history, political science, psychology, and sociology. Through an individualized course design, students may choose the approach of immersion in Deaf community, defined literature review, or other activity to gain an in depth understanding. This course is offered at the 400 and 600 level with additional assignments at the 600 Level. Not open to students with credit in ASLD 428 if topic is the same. Prerequisite: Graduate standing or instructor permission. LEC.

ASLD 631. Advanced American Sign Language Literature. 3 Hours.
This course analyzes and compares the various genres of American Sign Language literature. ASL poetry, narrative, humor, as well as written work by Deaf individuals and other language devices will be examined and discussed. Students will create and evaluate original work illustrating the similarities and uniqueness of ASL. Students will become familiar with well-known contributors such as: Clayton Valli, Patrick Graybill, Ella Mae...
and usage will be examined and discussed. Language samples will be
phonology, morphology, syntax, semantics, bilingualism, language use
In this course, students take an analytical approach to language and
ASLD 720. American Sign Language Linguistics. 3 Hours.
LEC.
in ASLD 506. Prerequisite: ASLD 505 or ASLD 705 or instructor approval.
additional assignments at the 700 Level. Not open to students with credit
pronominalization. This course is offered at the 500 and 700 level with
literature, the arts and abstract ideas. Students participate in-group
This course provides an introduction to interpreting as an occupation.
Students will come to understand the history of interpreting along with
importance of interpersonal communication skills, professional
ethics, parameters of responsibilities, community resources and legal
ramifications as they relate to the interpreter. This course is offered at the
500 and 700 level with additional assignments at the 700 Level. Not open to
students with credit in ASLD 501. Prerequisite: ASL IV or Instructor
permission. LEC.

ASLD 702. Theories of Interpreting: Co-Constructions of Meaning. 3
Hours.
This course provides an introduction to current theories in the processes
of translation and interpreting through a lens of meaning-based analysis
and co-construction of meaning. Students will come to understand and
apply several theoretical constructs as they perform intra- and inter-
lingual exercises. This course is offered at the 500 and 700 level with
additional assignments at the 700 Level. Not open to students with credit
in ASLD 502. Prerequisite: ASLD 501 or ASLD 701 and ASLD 521 or 721
with a minimum of a C; B recommended or Instructor Approval. LEC.

ASLD 705. American Sign Language V (ASL V). 3 Hours.
This course is the expanded study of ASL IV with emphasis on increased
conversation skills, vocabulary, storytelling, knowledge of Deaf culture
and the Deaf community. Vocabulary is enhanced through the introduction
of various content areas dealing with current events, world affairs,
literature, the arts and abstract ideas. Students participate in-group
discussions, speculate, make analogies, give instructions, and express
feelings and intentions. This course is offered at the 500 and 700 level
with additional assignments at the 700 Level. Not open to students with credit
in ASLD 505. Prerequisite: ASL IV or instructor approval. LEC.

ASLD 706. American Sign Language VI (ASL VI). 3 Hours.
This course is continuing from ASLD 705 ASL V. Students focus on
discourse, variation in sign language use, and understanding how the
Deaf community is part of a linguistic and cultural minority. Topics that
will be covered include perspectives on Deafhood, attitudes toward Deaf
people and signed languages, technology and communication. Students
will expand on vocabulary by working on areas of advanced subject
matter, application of non-manual markers, use of classifiers, and proper
pronominalization. This course is offered at the 500 and 700 level with
additional assignments at the 700 Level. Not open to students with credit
in ASLD 506. Prerequisite: ASLD 505 or ASLD 705 or instructor approval.
LEC.

ASLD 720. American Sign Language Linguistics. 3 Hours.
In this course, students take an analytical approach to language and
the field of linguistics as it applies to American Sign Language. ASL
phonology, morphology, syntax, semantics, bilingualism, language use
and usage will be examined and discussed. Language samples will be viewed and analyzed for evidence of different language structures and forms. Students will also read and critique research articles pertaining to ASL and other signed languages. This course is offered at the 500 and 700 level with additional assignments at the 700 Level. Not open to students with credit in ASLD 520. Prerequisite: ASL IV or instructor approval. LEC.

ASLD 721. Discourse Analysis of ASL. 3 Hours.
This course focuses on analysis of ASL Discourse structure and features, such as use of space for cohesion, depiction, discourse markers, and use of classifiers. The course also focuses on the use of ASL discourse in formal and informal settings. Students study the genres of dialogues, public speaking, artistic expression, debate, persuasive and narrative styles in ASL. This course is offered at the 500 and 700 level with additional assignments at the 700 Level. Not open to students with credit in ASLD 521. Prerequisite: ASL V with a minimum grade of B or instructor approval. LEC.

ASLD 723. ASL Pragmatics and Syntax. 3 Hours.
This course will focus on the study of syntactic structure and its interaction with meaning. Word order, lexical categories, sentence types, clause structure, topicalization and sentences with transitive, intransitive and agreement verbs are studied. This course is offered at the 500 and 700 level with additional assignments at the 700 Level. Not open to students with credit in ASLD 523. Prerequisite: ASLD 520 or ASLD 720. LEC.

ASLD 724. Visual-Gestural Communication. 3 Hours.
Students will develop capabilities in non-verbal communication and visual gestural communication utilizing the study of gestures as a form of communication and basis for visual language. Emphasis is on learning to think visually in pictures and building production and comprehension communication skills. This course is offered at the 500 and 700 level with additional assignments at the 700 Level. Not open to students with credit in ASLD 524. Prerequisite: Graduate standing or Instructor permission. LEC.

ASLD 730. American Sign Language Literature. 3 Hours.
This course will provide basic introduction, discussion, and demonstration of literature in American Sign Language (ASL). Such literature involves ASL Poetry, ASL Storytelling/ Narratives, Deaf Humor, Deaf Folklore and other genres that have been passed on from one generation to another by culturally Deaf people. Students will receive, analyze and retell a variety of ASL literature. This course is offered at the 500 and 700 level with additional assignments at the 700 Level. Not open to students with credit in ASLD 530. Prerequisite: ASL IV or instructor approval. LEC.

ASLD 788. Internship in American Sign Language and Deaf Studies. 1-3 Hours.
This course provides opportunities for students to have direct interaction with Deaf, Hard of Hearing, Deaf Blind community members in order to apply cultural, linguistic and power/privilege concepts learned in the classroom. Students must complete a minimum of 50 hours per credit hour. Schedule will be determined by student and instructor. This course is offered at the 500 and 700 level with additional assignments at the 700 Level. Not open to students with credit in ASLD 588. Prerequisite: Instructor approval. INT.

ASLD 789. Research Experience in American Sign Language and Deaf Studies. 3 Hours.
This course guides the students in reading, understanding and evaluating current research in ASL, Deaf Studies, ASL/English interpreting and related fields. Students will learn how to publish a paper and present a poster on a chosen topic of their interest. This course is offered at the 500 and 700 level with additional assignments at the 700 Level. Not open to students with credit in ASLD 589. Prerequisite: Instructor approval. RSH.
ASLD 803. Interpreting: Mediated Interactions in Communications. 3 Hours.
This course provides an introduction to real-time interpreting in mediated interaction contexts through a lens of meaning-based analysis and co-construction of meaning. Students will come to understand and apply theories, decision-making and engage in reflective practice. This course is offered at the 600 and 800 level with additional assignments at the 800 Level. Not open to students with credit in ASLD 603. Prerequisite: ASLD 501 or ASLD 701, ASLD 502 or ASLD 702 with a minimum grade of B or instructor approval. LEC.

ASLD 804. Interpreting: ASL to English. 3 Hours.
This course provides an introduction to real-time interpreting with an emphasis on ASL source materials through a lens of meaning-based analysis and co-construction of meaning. Students will come to understand and apply theories and engage in reflective practice. This course is offered at the 600 and 800 level with additional assignments at the 800 Level. Not open to students with credit in ASLD 604. Prerequisite: ASLD 501 or ASLD 701, ASLD 502 or ASLD 702 and ASL proficiency or instructor approval. LEC.

ASLD 805. Interpreting: English to ASL. 3 Hours.
This course provides an introduction to real-time interpreting with an emphasis on English source materials through a lens of meaning-based analysis and co-construction of meaning. Students will come to understand and apply theories and engage in reflective practice. This course is offered at the 600 and 800 level with additional assignments at the 800 Level. Not open to students with credit in ASLD 605. Prerequisite: ASLD 501 or ASLD 701, ASLD 502 or ASLD 702 and ASL proficiency. LEC.

ASLD 806. Interpreting: Diverse Communities. 3 Hours.
This course examines language, culture and identity and the implications when interpreting among diverse populations. Students will apply interpreting theories, decision-making and reflective practice to both monologue and dialogic materials in both ASL and English. This course is offered at the 600 and 800 level with additional assignments at the 800 Level. Not open to students with credit in ASLD 606. Prerequisite: ASLD 603 or ASLD 803, ASLD 604 or ASLD 804, ASLD 605 or ASLD 805 or instructor approval. LEC.

ASLD 807. Ethics and Professionalization for Interpreters. 3 Hours.
This course examines ethics as it relates to the work of interpreting through study of ethical codes of conduct, models of decision-making and elements of becoming an ethical professional. Students will come to understand the complexities of ethical decision-making and the importance of self-awareness, reflective practice and responsibility as they consider implications on micro and macro levels. This course is offered at the 600 and 800 level with additional assignments at the 800 Level. Not open to students with credit in ASLD 607. Prerequisite: ASLD 603 or ASLD 803 or instructor approval. LEC.

ASLD 808. ASL/English Interpreting Observation Practicum. 1-6 Hours.
This practicum requires a minimum of 50 hours of observation, shadowing, teaming, professional responsibilities, duties, and/or activities (e.g., scheduling, preparation, invoicing, meetings, and in-service training) in authentic settings where interpreters are employed. Discussion and analysis will occur with instructor and peers on-line and in-person throughout the semester. Students will consult with their advisor prior to enrolling in the course. Each credit hour requires at least 50 hours of field experience. Prerequisite: ASLD 603 or ASLD 803 with a minimum grade of a B or instructor approval. FL2D.

ASLD 809. Practicum in American Sign Language Interpreting. 1-6 Hours.
This practicum requires 250 hours of field experience which may include observation, shadowing, teaming, professional responsibilities, duties, and/or activities (e.g., scheduling, preparation, invoicing, meetings, and in-service training) in authentic settings where interpreters are employed. A minimum of 90 hours will be direct provision of interpreting under the supervision of a certified interpreter. Discussion and analysis will occur with instructor and peers on-line and in-person throughout the semester. Students will consult with their advisor prior to enrolling in the course. Students are required to complete a minimum of 3 credit hours to complete the ASLD 809 requirements. This 250 hour practicum may be completed in one semester by enrolling in 3 credit hours, or can be completed over multiple semesters. This course is offered at the 600 and 800 level with additional assignments at the 800 Level. Not open to students with credit in ASLD 609. Prerequisite: ASLD 603 or ASLD 803, ASLD 604 or ASLD 804, ASLD 605 or ASLD 805, ASLD 608 or ASLD 808 with a minimum grade of a B, and completion of an interpreting proficiency exam or instructor approval. FL2D.

ASLD 810. Psychological Effects of Interpreting. 3 Hours.
This course examines both affective and cognitive psychological effects on interpreting practitioners. The importance of self-care, reflective practice, case-conferencing; as well as vicarious trauma, compassion fatigue, role-space, power and privilege are among topics discussed. This course is offered at the 600 and 800 level with additional assignments at the 800 Level. Not open to students with credit in ASLD 610. Prerequisite: ASLD 603 or ASLD 803 or instructor approval. LEC.

ASLD 815. Business Practices for Interpreters. 3 Hours.
This course will provide students an introduction to business practices for interpreters. Concepts explored will include resume development, interview skills, invoicing, record keeping for tax purposes, certification maintenance and licensure renewal, etc. This course is offered at the 600 and 800 level with additional assignments at the 800 Level. Not open to students with credit in ASLD 615. Prerequisite: ASLD 603 or ASLD 803, ASLD 604 or ASLD 804, ASLD 605 or ASLD 805 or instructor approval. LEC.

ASLD 816. Interpreting: Dynamic Paralinguistic Demands. 3 Hours.
This course examines a variety of paralinguistic demands in the context of interpreting. Types of demands will include emotional communication, accents, regional dialects, physical and mental factors (Cerebral Palsy, injuries, etc.), fast paced communication, etc. Students will apply interpreting theories, decision-making and reflective practice to both monologue and dialogic materials in both ASL and English. This course is offered at the 600 and 800 level with additional assignments at the 800 Level. Not open to students with credit in ASLD 616. Prerequisite: ASLD 603 or ASLD 803, ASLD 604 or ASLD 804, ASLD 605 or ASLD 805 or instructor approval. LEC.

ASLD 826. Topics in ASL Vocabulary and Discourse: _____. 3 Hours.
This course will expand the interpreter training students’ vocabulary related to specialized fields and technical contexts. Students will enhance terminology in medical, mental health, education, religion, sex, drugs/alcohol and strong language/culturally rich ASL. Students’ development of comprehension and production skills in common formal and informal settings will be emphasized. This course is offered at the 600 and 800 level with additional assignments at the 800 Level. Not open to students with credit in ASLD 626 if topic is the same. Prerequisite: ASL IV or instructor approval. LEC.

ASLD 831. Advanced American Sign Language Literature. 3 Hours.
This course analyzes and compares the various genres of American Sign Language literature. ASL poetry, narrative, humor, as well as written work
by Deaf individuals and other language devices will be examined and discussed. Students will create and evaluate original work illustrating the similarities and uniqueness of ASL. Students will become familiar with well-known contributors such as: Clayton Valli, Patrick Graybill, Ella Mae Lentz, and the like. Research articles pertaining to ASL or Deaf Literature will be critiqued and discussed. This course is offered at the 600 and 800 level with additional assignments at the 800 Level. Not open to students with credit in ASLD 631. Prerequisite: ASLD 530 or ASLD 730. LEC.

ASLD 838. Topics in Interpreting:_____. 3 Hours.
This course provides the opportunity for experimentation with innovative course content and learning strategies in accordance with guidelines established by faculty. Topics include interpreting in specialized settings, current trends, etc. This course is offered at the 600 and 800 level with additional assignments at the 800 Level. Not open to students with credit in ASLD 638 if topic is the same. Prerequisite: ASLD 603 or ASLD 803, ASLD 604 or ASLD 804, ASLD 605 or ASLD 805 or instructor approval. LEC.

Courses

BTEC 300. Research Methods in Biotechnology. 3 Hours N.
An integrated lecture and laboratory course exploring the science and basic laboratory skills used in food science, agricultural science, pharmaceutical science, clinical medicine, animal health, and environmental science. Survey of career opportunities in biotechnology. Guest lectures from field-experts in biotechnology. Prerequisite: BIOL 152; concurrent or prior enrollment in CHEM 330; or consent of instructor. LEC.

BTEC 305. Molecular and Microbiological Techniques. 4 Hours N.
An integrated lecture and laboratory course exploring the science and tools used in microbiology-based fields. A strong focus is placed on developing functional scientific skills required to run an RD or Production Lab. Students will survey the diversity of microbial life while becoming proficient in the tools that are used extensively in the laboratory. We emphasize hands-on experience with lab techniques applicable to addressing a variety of scientific problems. Specifically, this course will challenge students to apply their knowledge and skills to construct and express recombinant proteins in mammalian cells, purify, and quantitate their products. Prerequisite: Concurrent or prior enrollment in BIOL 350 and BTEC 300; or consent of instructor. LEC.

BTEC 310. Scientific Communications. 3 Hours N.
Theory and practicum exploring communications relevant to careers in science. This course will explore the fundamentals of clear, effective communications in written and oral formats. Students will gain experience communicating in a variety of real-world situations with technical and lay audiences. Particular emphasis will be placed on the communications occurring within the work place setting. Students will also be challenged to build a network with the biotech industries through external events. Prerequisite: ENGL 102; or consent of instructor. Students must be in their junior or senior year of a science-related degree. LEC.

BTEC 341. Principles of Bioprocessing Laboratory I. 1 Hour N.
Laboratory sessions involve use of microbial expression vectors, fermentation systems, and large-scale purification of recombinant protein. Includes bacterial cell culture techniques, principles of bioreactor/fermentation operations and purification techniques, and calibration. Primary goal of this course is to provide students with an advanced background in bacterial upstream and downstream biotechnology. Prerequisite: BTEC 300; BTEC 340 or concurrent enrollment in BTEC 340. LAB.

BTEC 340. Applied Immunology. 3 Hours N.
An integrated lecture and laboratory course exploring the fundamentals of immunology. The course focuses on developing a conceptual knowledge of the constituents and processes of the immune system. Students will develop a functional understanding of how to operate and apply current immunology-based techniques. Laboratory activities will explore the use of immunological tools for research, discovery, and analysis of processes and experimental compounds. Prerequisite: BTEC 300; BTEC 305; or consent of instructor. LEC.

BTEC 424. Independent Study in Biotechnology. 1-3 Hours N.
Independent project at a related bioscience industry partner or faculty in selected topics of current translational research interest. May be undertaken only with the consent of the major advisor who will guide the research after determining objectives with the interested industry partner or faculty. Prerequisite: Consent of instructor. IND.

BTEC 441. Principles of Bioprocessing Laboratory II. 1 Hour N.
Mammalian cell culture techniques, principles of bioreactor operations and purification techniques, and calibration. The primary goal of this course is to provide students with an advanced background in mammalian upstream and downstream biotechnology. Prerequisite: BTEC 341; BTEC 440 or concurrent enrollment in BTEC 440. LAB.

BTEC 460. Introduction to Quality Control/Quality Assurance in Biotechnology. 3 Hours N.
Quality control techniques, assurance issues, and management methods. Quality in design and planning, in the constructed project, and in production of goods and services. Prerequisite: BTEC 330. LEC.

BTEC 475. Applied Separation Science and Quantitative Analysis. 6 Hours N.
An integrated lecture and laboratory course exploring the fundamentals of separation science and quantitative analysis of small molecules, peptides, and proteins. Students will be challenged to develop a functional understanding of the theory and application of sample preparation, separation technologies, and methods for quantification. Prerequisite: BTEC 300; or consent of instructor. LEC.

BTEC 494. Selected Topics in Biotechnology:_____. 1-3 Hours N.
A synthesis and discussion of current trends related to biotechnology. Emphasis is placed on providing students with an awareness of advances on the leading edge of discovery, critically analyzing data, and developing skills for success in the next stage of a career in biotechnology. This course can be repeated for up to 2 credit hours. Prerequisite: Concurrent or prior enrolment in BTEC 300; or consent of instructor. Students must be in their junior or senior year of a biology-related degree. LEC.

BTEC 501. Biotechnology Ethics and Responsible Conduct of Research. 3 Hours AE51 / N.
Student investigations and discussions of current controversial issues in biotechnology. This course emphasizes thinking about new technologies in a rational and thoughtful way. Prerequisite: BTEC 300. LEC.

BTEC 540. Biotechnology Capstone I. 3 Hours N.
A project-based course that challenges students to develop, plan, execute, and communicate the results of a biotech-related project. Students will be guided through the initial stages of project design, project management, logistics, and technical training necessary to complete their project. This course is the first of a two semester series (BTEC 540 BTEC 640.) Prerequisite: BTEC 305; BTEC 475; concurrent or prior enrollment in BIOL 600; or consent of instructor. LAB.

BTEC 541. Gene Expression Analysis: Microarrays. 2 Hours N.
This course reviews current theory, techniques, instrumentation, troubleshooting, analysis tools, and advanced protocols for microarray analysis. Students have the opportunity to utilize skills learned during
BTEC 542. Protein Expression in Insect Cells. 2 Hours N.
Introduction to the insect cells expression system, and its advantages and disadvantages. Introduction to expression of recombinant proteins with baculovirus. Outline of antibody and antibody fragments as well as other complex proteins. Basic techniques used for growth and maintenance of insect cell cultures. The lab portion of the course provides students with practical experience in protein expression techniques in the insect cells expression system. Prerequisite: BTEC 300. LAB.

BTEC 545. RNA Interference and Model Organisms. 2 Hours N.
Introduction and history of RNA interference technology. Principles, mechanism, and applications of RNA interference in model organisms. Laboratory sessions include RNA interference-mediated silencing of genes in plants, C. elegans, and mammalian cell culture. Prerequisite: BTEC 300. LAB.

BTEC 547. Bioanalytical Lab. 2 Hours N.
Analytical methods used for testing biotherapeutics are examined. Emphasis is placed on assessing protein concentration, purity, identity and activity. The importance of sample processing, throughput and level of validation are explored as samples from upstream processing, downstream processing and final bulk are interrogated. Students also learn key concepts used to validate the performance of analytical methods. Prerequisite: BTEC 300. LAB.

BTEC 550. Applied Bioinformatics. 2 Hours N.
Overview of the fields of bioinformatics and genomics. Topics, tools, issues and current trends in these and related fields are discussed. Principles and practical application of bioinformatics tools in molecular biology, genetics, and electronic medical records are evaluated. The haploid human genome occupies a total of just over 3 billion DNA base pairs. The medical records of a population contain clues concerning better identification and treatment of disease. This information is not contained in books, but stored in electronic databases. This course is designed for life scientists from all fields to introduce them to the power of bioinformatics and enable them to access and utilize biological information in databases for their own research. Prerequisite: BTEC 300; BIOL 570 or MATH 365 (preferred); consent of instructor. LEC.

BTEC 599. Biotechnology Internship. 1-6 Hours N.
Supervised internship at a biotech company; or an independent thesis; or honors thesis with Honors Program. This course can be repeated for up to a total of 6 credit hours. Prerequisite: BTEC 305; BTEC 475; and consent of instructor. FLD.

BTEC 630. Biotechnology, Regulation, Quality Control, and Quality Assurance. 3 Hours N.
An integrated lecture and laboratory course exploring quality control, quality assurance, and regulatory considerations. Hands-on experimentation will develop a functional understanding of protocol design and a practical knowledge of GXP-guided processes. This course will focus on issues relevant to manufacturing, packaging, labeling, testing, and control of pharmaceutical products. Guest lectures from field-experts in the biotechnology industry. Prerequisite: Concurrent or prior enrollment in BTEC 599; or consent of instructor. LEC.

BTEC 640. Biotechnology Capstone II. 3 Hours AE61 / N.
A project-based course that challenges students to develop, plan, execute, and communicate the results of a biotech-related project. Students will be guided through the execution of their proposed plan with particular emphasis placed on managing scientists, gathering and analyzing data, and instituting quality controls/quality assurance protocols. Students will communicate the results of their project through a combination of an oral presentation and poster. This course is the second of a two semester series (BTEC 540 BTEC 640.) Prerequisite: BTEC 540; or consent of instructor. LAB.

Courses

EMGT 608. Principles of Engineering Management. 3 Hours.
Principles used by the engineer in managing technology-based organizations, focusing on core management functions. Prerequisite: Senior or graduate standing in an engineering curriculum or consent of the instructor. LEC.

EMGT 800. Special Topics in Engineering Management. 1-4 Hours.
Advanced study of a specialized nature representing unique or changing engineering management knowledge. RSH.

EMGT 801. Management Theory and Practice for Engineering Managers. 3 Hours.
Foundation for managing in technology-based organizations. Topics include essential management functions, schools of management thought, motivation, and management style. LEC.

Production of required statistical analyses and predictions for engineering and management systems. Content from probability through regression and analysis of variance. Prerequisite: Admission to the EMGT program or instructor consent. LEC.

EMGT 803. Technological Forecasting and Assessment. 3 Hours.
Methods of technology assessment and forecasting. Topics include scenario analysis, cross-impact analysis, judgmental mental forecasting methods such as Delphi, and foundational time series forecasting methods such as trend projection and auto-aggressive moving averages. Prerequisite: Admission to the EMGT program or instructor consent. LEC.

EMGT 804. Business Development and Marketing of Professional Services. 3 Hours.
A broad review of the major components of marketing and integration of these components, culminating in students developing marketing plans for services. Theories, principles, and practices of business development and marketing applied to consulting oriented professional engineering and architectural firms. LEC.

EMGT 805. Management of Innovation. 3 Hours.
Preparation for managing technological change involving innovation. Topics include essential management functions, innovation types, impact of organizational structure and climate, and change management. LEC.

EMGT 806. Finance for Engineers. 3 Hours.
An introduction to finance in technology-based organizations. Topics include financial statements analysis, valuation of future cash flows, capital budgeting, risk and return, capital structure, and working capital management. LEC.

EMGT 807. Labor and Employee Relations for the Engineering Manager. 3 Hours.
Foundation for negotiation and administration of labor agreements. Topics include labor relations; human resources management; employment practices in unionized and non-union organizations; and historical, legal, and structural environments influencing collective bargaining processes. LEC.

EMGT 808. Quality Management. 3 Hours.
Practical application of total quality management (TQM) concepts from planning through customer acceptance in technology-based organizations, focusing on understanding the concepts of the total supply
EMGT 809. Personal Development for the Engineering Manager. 4 Hours.
Objectives, theories, and tests of engineering and management ethics and the relationship to personal values, and communications strategies. Development of career and life plans, and personal brand. Strong emphasis on the creation of both written papers and oral presentations. LEC.

EMGT 810. Applications of Quantitative Analysis in Decision Making. 3 Hours.
Practitioner-oriented presentation of managing and implementing optimization methods for improving design and decision making. Focus on methods of mathematical programming (linear, integer, and non-linear), queuing analysis, and decision analysis. Prerequisite: Admission to the EMGT program or instructor consent. LEC.

EMGT 811. Engineering Systems Simulation. 3 Hours.
Practitioner-oriented presentation of developing and using discrete-event simulation to improve engineering analysis and design, and management decision making processes, including instruction in a chosen simulation language. Prerequisite: Admission to the EMGT program or instructor consent. LEC.

EMGT 812. Law and the Design Professional. 3 Hours.
Legal doctrines relating to owners, design professionals, and contractors; contracts, including formation, rights and duties, interpretation, performance problems, disputes, and claims, standards of care and the management of construction claims, duties and obligation of the design professional, the owner, and the contractor; surety bonds and insurance; and sources of law, forms of association, and agency. Prerequisite: Admission to the EMGT program or instructor consent. LEC.

EMGT 813. Design Project Management in Professional Practice. 3 Hours.
Managing design projects, integrating perspectives of profitability and cost control, client satisfaction, and project team relations. Topics include explanation of a project manager's job via an augmented model of the Blake-Mouton grid. Prerequisite: Admission to the EMGT program or instructor consent. LEC.

EMGT 814. Leadership Techniques and Methods for the Engineering Manager. 3 Hours.
Formulating and communicating a compelling vision, convincing others to pursue that vision, and marshaling resources and talents. Coaching and public speaking. Improving decision making and communications, earning trust and building momentum, and inspiring and enabling others to excel. LEC.

EMGT 815. Business Relationships and Selling Skills. 3 Hours.
Fundamentals of business relationships and professional selling for any technical professional who would like to be more effective in "getting their message across" to external or internal customers. Relationship management, including ethical issues in business relationships. Experimental exercises on conducting and evaluating dialogues/presentations with customers, internal audiences, and upper management. LEC.

EMGT 816. Energy Management. 3 Hours.
Latest strategies for improving lighting, combustion processes, steam generation and distribution, and industrial waste re-utilization. Topics include distributed generation, energy auditing, rate structures, economic evaluation techniques, control systems, and maintenance. LEC.

EMGT 817. Mathematics for the Engineering Manager. 3 Hours.
Comprehensive math course addressing engineering managers' need for a greater understanding of mathematical concepts. LEC.

EMGT 818. Advanced Mathematics for the Engineering Manager. 2 Hours.
Supplements Engineering Management students' mathematical skills and knowledge as relevant to career needs. LEC.

EMGT 820. Developing the Engineering Manager. 3 Hours.
Integrating essential concepts and effective practices in communication, management, and leadership with the application of key organizational resources for enhanced management performance. Emphasizes on working with and through others, on useful human resources-oriented knowledge and skills, and on working with human resources professionals. Prerequisite: PFS 802 or equivalent, as determined by the department, or instructor consent. LEC.

EMGT 821. Strategic Analysis of Technology Projects. 3 Hours.
Strategic assessment of developmental projects, focusing on the proposed product or service, the organization, project details, and the environment. Topics include application of financial figures of merit, feasibility of competing projects, decisions under uncertainty, risk vs return, and forecasting. Prerequisite: Admission to the EMGT program or instructor consent. LEC.

EMGT 823. Management of Internal Engineering Projects. 3 Hours.
Managing organizations' technology-oriented projects, both as inside staff and outside consultant. Covers the entire project life cycle as reflected in the Project Management Book of Knowledge. Practical considerations addressed include material procurement, work with contractors and consultants, selecting software, and managing the project team. LEC.

EMGT 824. Product Marketing for Engineering Managers. 3 Hours.
A broad review of the major components of marketing and integration of these components, culminating in students developing marketing plans for new or existing products. Theories, principles, and practices of marketing applied to engineering managers in production or manufacturing. Prerequisite: Admission to the EMGT program or instructor consent. LEC.

EMGT 830. Case Studies in Engineering Management. 2-3 Hours.
A capstone course for the program, integrating the material presented in other courses through analysis of several engineering management case studies. Note: Research paper and presentation are part of the 3 credit hours option. Prerequisite: Must have completed of 21 credit hours in the Engineering Management program, including EMGT 810 and EMGT 821. LEC.

EMGT 835. Field Project (M.S.). 1-3 Hours.
Research on a problem in engineering management, the satisfactory completion of which satisfies the project requirement for the degree of Master of Science in Engineering Management. Prerequisite: Must have completed of 21 credit hours in the Engineering Management program, including EMGT 810 and EMGT 821. THE.

EMGT 840. Systems Approach to Engineering. 3 Hours.
Formal methods and processes in bringing complex systems into being, and improving existing systems. Topics include formal specification methods, definition of customer needs, systems life cycles, value-to-value analysis, and management of the systems engineering process. LEC.

EMGT 844. Managing Software Development Projects. 3 Hours.
Managing software development, optimizing business considerations and project demands satisfaction. Topics include project planning, cost and schedule estimation, risk measurement and control, uncertainty in specifications, cost and delivery requirements, and technology risks.
Techniques presented are applicable to managing projects in other industries. LEC.

EMGT 845. Service Management for the Engineering Manager. 3 Hours.
Managing service-oriented organizations. Covers a wide array of industries, addressing service management from four primary perspectives: the basics of service science, the customer encounter, managing service operations, and the exceptional customer experience. LEC.

EMGT 848. Information Technology for Management. 3 Hours.
Developments in the field of information technology (IT), divided into two realms. First, current hardware, software, and networking technologies, including relational databases, object-oriented design and programming, client-server technologies, and emerging communications technologies. Second, approaches to evaluating and implementing available information technology alternatives, including software development, management, and development, information integrity and security; and the effects of IT on people and organizations. LEC.

EMGT 850. Environmental Issues for Engineering Managers. 3 Hours.
Survey of environmental problems and their solution, and environmental regulations. Topics include the quantity and quality of various types of pollutants emitted to various media, and the risks posed by these pollutants; the regulatory process; and historical perspective, including pollution generation (sources), transportation, fate and effects. LEC.

EMGT 854. Management of Business Intelligence and Security for Strategic Planning. 3 Hours.
Management of competitive intelligence and security in business strategic planning is a first course at the graduate level that introduces the formal methods, concepts, and processes of competitive intelligence and security which are vital to both strategic business planning and day-to-day business operations. This course provides access to the tools used to identify what is happening in the business environment including legislation, economics, regulatory changes, competition, customers, etc. that affect a business’ strategy and operations. Further, these tools are applied to determining what will likely happen in the future and how to use those forecasts to optimize strategic and operational plans. LEC.

EMGT 860. Special Problems in Engineering Management. 1-4 Hours.
Original independent research on engineering management problems or subjects of immediate interest. May be repeated for credit to a maximum of four hours. Prerequisite: Approval of instructor. RSH.

EMGT 862. Manufacturing Systems Integration. 3 Hours.
Engineering and management-specific aspects of manufacturing and information systems integration. Engineering topics include agile, flexible, intelligent, and advanced manufacturing sub-systems; material handling and identification; vendor-specific automation; communication linkage between sub-systems; network and protocol alternatives; and hardware platform alternatives. Management topics include implementation approaches, quality management systems, long-range planning, support systems, and integration project management. LEC.

EMGT 867. Advanced Operations Management. 3 Hours.
Strategic issues and practical application of modern and advanced methods for designing and analyzing manufacturing processes and systems. Topics include: forecasting, product and service design, capacity planning, quality management, inventory management, scheduling, supply chain management, project management and simulation of manufacturing processes, and just-in-time, lean, synchronous, and agile systems. LEC.

Courses

HSCI 320. Principles of Nutrition. 3 Hours.
Applied study of the relationship of normal food and nutrition principles to health promotion in select stages of the lifecycle. Not open to those with credit in HSES 330. LEC.

HSCI 340. Introduction to Public Health. 3 Hours.
This course is an introductory course that examines public health issues in the United States and is designed to provide an overview of major health issues that impact the public’s health. The course emphasizes the essential services of public health, challenges and strategies for working with communities, and provides an overview of the United States public health system. LEC.

HSCI 420. Nutrition Through the Life Cycle. 3 Hours.
The influence of normal physiological changes on nutritional needs throughout the life span. Prerequisite: HSCI 320 or HSES 330 or instructor consent. LEC.

HSCI 421. Public Health Nutrition. 3 Hours.
The public health and nutrition concerns and services to maintain and improve the health of people living in the US. LEC.

HSCI 422. Nutrition Assessment. 3 Hours.
Methods and tools to screen and assess the nutritional status of individuals. Prerequisite: HSCI 320 or HSES 330 or instructor consent. LEC.

HSCI 425. Nutrition Education. 3 Hours.
Principles and practices used for teaching and reaching individuals and groups about nutrition to promote healthy living. Prerequisite: HSCI 320 or HSES 330 or instructor consent. LEC.

HSCI 440. Introduction to Epidemiology. 3 Hours.
This course will present the fundamentals of epidemiology including study designs, measures of morbidity and risk, types of research biases and specific epidemiology disciplines. These concepts will be illustrated with various examples of epidemiologic research and through lab exercises. LEC.

HSCI 441. Population Health. 3 Hours.
This is an introductory course that provides a population perspective on social determinants of health as well as the distribution of risk factors and disease across populations. It explores population-based approaches to explore how behavioral, social, and environmental factors influence health and methods to reduce these health disparities. LEC.

HSCI 445. Introduction to Environmental Health. 3 Hours.
This course is designed to provide a foundation for understanding how the natural and built environment affect human health in industrialized and developing countries by examining the impact of physical, chemical, and biological factors external to humans. Students will gain an understanding of the interaction of individuals and communities with the environment, the potential impact on health of environmental agents, and specific applications of concepts of environmental health. (Same as EVRN 445.) LEC.

HSCI 498. Pathways in Health Science Careers. 1 Hour.
This course provides an integrated approach through individual pre-health coaching and peer group reflection. Students will explore exercises that identify their individual strengths and align them with career goals. Through creating actionable plans, students will focus on broadening professional experiences and improving underdeveloped aspects of their application for professional programs in the health sciences. By the end of the course, students will have detailed an inventory of their professional experiences and a resume that clearly reflects them. Students will practice articulating their strengths through written materials and designing an
HSCI 499. Topics in Health Sciences. 1-3 Hours.
This course emphasizes the practical application of student goals created in HSCI 498 through experiential learning. Students will have the opportunity to gain academic credit for shadowing, volunteering, and current employment in health-related fields. Coursework will focus on building a comprehensive application, communicating personal qualities for chosen health career, writing an engaging personal comments essay, asking for evaluation letters, and preparing for interviews. Prerequisite: HSCI 498. LEC.

HSCI 521. Advanced Nutrition and Metabolism. 3 Hours.
Building upon the basic principles of nutrition, this course delves more deeply into the biological functions of nutrient and their interaction in the human body. Students will be introduced to the role of nutrition in disease. Prerequisite: HSCI 320 or HSES 330 and HSCI 422, or instructor consent. LEC.

HSCI 522. Advanced Sports Nutrition. 3 Hours.
The study of nutrient needs to support optimal performance in sports and exercise throughout the lifespan. Prerequisite: HSCI 320 or HSES 330 and HSCI 422 or instructor consent. LEC.

HSCI 599. Health Science Capstone. 3 Hours.
The capstone provides students with a broad-based, interdisciplinary educational experience and allows them to integrate and synthesize the knowledge they have gained in their health sciences curriculum. Students gather and analyze data throughout the class, and present their final work to a variety of audiences. The product is an original research presentation that advances knowledge. Prerequisite: Students must be in their final year of coursework required for one of the degrees in the biological sciences. Restricted to declared Health Sciences majors only. LEC.

Courses

ITEC 310. Computer Organization and Platform Technologies. 3 Hours.
Machine-level representation of data, digital logic and digital systems, computer architecture and organization, computing infrastructure, introduction to multiprocessing systems, firmware, hardware and software integration, introduction to intersystems communications, enterprise deployment management introduction to virtual machine emulation, platform technologies. Prerequisite: EECS 210, EECS 268 and HSCI 422 or instructor consent. LEC.

ITEC 320. System and Network Administration. 3 Hours.
This course introduces operating systems and network administration and presents topics related to selection, installation, configuration, and maintenance of operating systems and computer networks. Topics to be covered include: Unix and Windows operating systems installation, configuration, and maintenance, server administration and management, client and server services, user and group management and support, software systems installation and configuration, content management and deployment, security management, network administration, backup management and disaster recovery, resource management, automation management, operating systems and Web domain management, operating systems and application version control management. A laboratory component will provide hands-on experience with system and network administration. Prerequisite: EECS 210, EECS 268 and PHSX 114 or consent of instructor. Corequisite: ITEC 310. LEC.

ITEC 330. Web Systems and Technologies. 3 Hours.
The objective of this course is to discuss how the Web systems are programmed and maintained and how online pages are created and delivered by Web servers and used by clients. Topics to be covered include: Web systems and technologies, information architecture, digital media, Web development, Web standards, vulnerabilities, social network software, client-side programming, server-side programming, Web services and servers, XHTML, CSS, flash and CGI programming, CSS, Web systems security, JavaScript, PHP, and emerging technologies. Prerequisite: EECS 210, EECS 268 and PHSX 114 or consent of instructor. Corequisite: ITEC 310. LEC.

ITEC 340. Computer and Information Security. 3 Hours.
Fundamentals of computer security, security mechanisms, information states, security attacks, threat analysis models, vulnerability analysis models, introduction to cryptography, authentication, intrusion detection, intrusion prevention (firewalls), operating systems security, database security, software security, host hardening, incident and disaster response. Prerequisite: EECS 210, EECS 268 and PHSX 114 or consent of instructor. LEC.

ITEC 380. Managing IT Projects. 3 Hours.
The objectives of this course are to cover the fundamental concepts in managing IT projects. Topics include planning, executing, monitoring, controlling, and closing a project, designing a comprehensive project management plan, developing strategies in managing complexity in large projects, and understanding agility in project management. Project management concepts such as planning, scheduling, cost and effort estimation, risk analysis and mitigation, human resources management, communication management, and stakeholder management will be presented in detail. Prerequisite: EECS 210, EECS 268 and PHSX 114 or consent of instructor. LEC.

ITEC 399. Directed Reading in ITEC. 1-4 Hours.
Reading under the supervision of an instructor on a topic in Information Technology. The topic, expected outcome, evaluation criteria, and the number of credit hours must be mutually agreed on by the student and the instructor. Course may not be used to fulfill major elective requirements. Consent of the department required for enrollment. Prerequisite: Instructor permission required. LEC.

ITEC 410. Software Engineering and Management. 3 Hours.
This course introduces the software development life cycle and key concepts related to software engineering. Topics include software process models, software project management, software requirements engineering, formal and informal modeling, software architecture, software design, coding and implementation, software testing and quality assurance, software deployment, and software evolution. Additional topics such as software metrics and measures, application domains, software engineering standards, and software configuration management will also be presented. This is a project-driven course. Prerequisite: ITEC 380. LEC.
ITEC 414. Database Design. 3 Hours.
The objective of this course is to present key concepts related to database design and implementation. Topics to be discussed include: database architecture, relational data model, SQL, database design life cycle, conceptual data modeling, relational database normalization, query processing, transaction processing, database security, and database administration. This is a project-driven course. Prerequisite: ITEC 330. LEC.

ITEC 416. System Integration and Architecture. 3 Hours.
This course introduces system integration and architecture. Key concepts to be presented include: system architecture, system requirements, organizational context, acquisition and sourcing, system and component integration, middleware platforms, design patterns, integrative coding, scripting coding, testing and quality assurance, system deployment. Prerequisite: ITEC 410. LEC.

ITEC 420. Operating Systems. 3 Hours.
This course introduces operating systems principles and associated key concepts. Topics to be discussed include: processes and threads, concurrency, scheduling and dispatch, memory management, processor management, device management, security and protection, file system, disk scheduling, real-time and embedded systems, fault tolerance, scripting, and an introduction to virtualization. Prerequisite: ITEC 320. LEC.

ITEC 422. Computer Networks. 3 Hours.
Foundations of computer networking with practical applications and network administration, with emphasis on the Internet and wireless public switched telephone network. Topics to be covered include routing and switching, routing algorithms, physical layer, data link layer, network layer, network security, network management, and application areas. Prerequisite: ITEC 320. LEC.

ITEC 424. Network Security. 3 Hours.
This course covers the fundamental concepts, principles, and mechanisms in network and distributed system security. The topics that will be covered include: network security primitives, distributed authentication, key management, secure communication protocols, firewalls, intrusion detection, traffic monitoring and analysis, email and Web security, etc. Prerequisite: ITEC 340 and ITEC 422. LEC.

ITEC 430. Human-Computer Interaction. 3 Hours.
This course introduces principles of human-computer interaction. Important topics to be presented include: human factors, human-centered design and evaluation, graphical user interfaces, multimedia system integration, interactive systems development, computer-supported cooperative work, human cognitive skills, accessibility, alternative input/output media, and emerging technologies. Prerequisite: Completion of nine credits of ITEC 300-level coursework or consent of the instructor. LEC.

ITEC 440. Cloud Computing. 3 Hours.
This course introduces principles of cloud computing and the business and computing technology trends that enable and necessitate its uses. Cloud computing and its engineering and delivery models, Software as a Service (SaaS), Platform as a Service (PaaS), and Infrastructure as a Service (IaaS), will be covered. Cloud-based and RESTful web services for developing new applications and offering new services will be discussed. Topics related to cloud computing security, identity, auditing, and authorization management will be presented. The course will be project based and an existing cloud computing platform (e.g., Amazon AWS) will be used for projects. Prerequisite: ITEC 320 or consent of the instructor. LEC.

ITEC 450. Social and Professional Issues. 3 Hours AE51.
This course will provide an overview of the history of computing and presents key concepts related to the social and professional aspects of IT. Topics to be covered include: pervasive themes in IT, social context of computing, intellectual property, legal issues in computing, professional and ethical issues and responsibilities, privacy and civil liberties. Prerequisite: Completion of nine credits of ITEC 300-level coursework or consent of the instructor. LEC.

ITEC 452. Special Topics in ITEC: ____. 3 Hours.
This course introduces a special topic of current interest in information technology, offered as the need arises. May be repeated for additional credit. Prerequisite: Upper-level ITEC eligibility and consent of instructor. LEC.

ITEC 490. ITEC Capstone I. 3 Hours AE61.
Capstone is a senior level course designed to allow a student to review, analyze, integrate, and apply technical knowledge in a meaningful and practical manner. The student will be expected to complete an approved academic project in IT that may be in collaboration with an industrial partner. Prerequisite: Corequisite: ITEC 410. LEC.

ITEC 492. ITEC Capstone II. 3 Hours.
ITEC Capstone II is a continuation of ITEC Capstone, is a senior level course designed to allow a student to review, analyze, integrate, and apply technical knowledge in a meaningful and practical manner. The student will be expected to complete an approved academic project in IT that may be in collaboration with an industrial partner. Prerequisite: ITEC 490. LEC.

Courses

PFS 730. Writing and Speaking for Decision Makers. 3 Hours.
This course is an advanced level communication skills course focused on developing and refining managerial-level business writing and presentation skills. Course assignments and activities provide practice and expert feedback on these core professional skills. Course content offers research-based insights to develop one’s ability to assess various stakeholders’ needs, motivations and values, while also addressing critical situational needs and relational concerns in a variety of workplace communication scenarios. Participants learn to craft communication that is thoughtful, strategic, research-backed, and designed to signal their readiness for additional career development opportunities. LEC.

PFS 801. Interpersonal and Persuasive Communication Skills for Managers. 3 Hours.
This course examines how communication practices and patterns influence employee engagement, team productivity, organizational cultures, and individual career development. In short, this course centers communication as the primary way people organize, build relationships and get things done in organizations. Factors influencing what makes communication “effective” in various contexts and relationships will be identified, providing you a toolkit for enhancing team effectiveness and business outcomes, as well as facilitating your individual career advancement. Course activities and assignments are designed to build self-awareness and global workplace communication competencies, with a focus on situational awareness and personal adaptability. The course is designed to differentiate KU graduates by providing a powerful set of research-based communication concepts and frameworks for use in diagnosing and meaningfully addressing the most common work and career-related challenges facing mid-career professionals in today’s increasingly complex, diverse and ever-changing organizations. LEC.

PFS 802. Managing Teams and Leading People. 3 Hours.
This course examines the foundational body of knowledge relating to effective organizational management and leadership. Beginning with
an exploration of the essential differences between management and leadership, the course then addresses such topics as leading with emotional intelligence, change management, organizational culture, individual and team performance coaching and management, innovation theories, stakeholder analysis, and personal brand development. LEC.

PFS 803. Financial Management for Professional Success. 3 Hours. This course introduces the concepts and applications of financial planning and management for professional managers working in diverse professional environments. Topics include time value of money, asset valuation, capital structures and budgeting, financial analysis and cash flow, and project and operations decision-making. This “finance for non-financial managers” course equips managers with the fundamental knowledge and skills to operate a unit in collaboration with their organization’s financial professionals. LEC.

PFS 804. Project Management for Professionals. 3 Hours. This course introduces the project management body of knowledge with a focus on developing project management plans for use in diverse professional environments. The project life cycle is covered from inception to closeout with an emphasis on project scope, budget, schedule, and risk; and practical application of stakeholder, procurement, resource, quality, and communication management. The course will be valuable to managers of units, teams and organizations either to directly manage projects of various types or have a strong understanding of what to expect from formal project managers. LEC.

PFS 810. Organizational Communication Strategies. 3 Hours. This course addresses key communication processes in organizations, including developing effective workplace relationships and nurturing organizational cultures and team work in increasingly complex, global organizations. Topics include change management communication strategies, how organizational hierarchies and other structures influence communication flows, the role of different social group identities in shaping individual’s experiences within organizations, and managing virtual teams. Students will be able to identify the influence of organizational culture, power dynamics, and communication ethics on workplace communication patterns and outcomes, and will craft communication strategies to enhance workplace cultures, project outcomes and personal leadership communication skills. SEM.

PFS 821. Employee Onboarding and Role Development. 3 Hours. This course explores the communication dynamics that facilitate employee onboarding and integration for new hires and newly promoted supervisors, managers and leaders. Content and activities will explore the challenges and opportunities embedded in the socialization process for individuals and organizations, including the hidden communication complexities of role transitions, including navigating expectations of colleagues, understanding the dynamics of the personal identity shift one must navigate during transition, and balancing the desire to affect change with the pressure to assimilate into organizational expectations. Participants will design an onboarding and communication plan for a workplace socialization need of their choice. LEC.

PFS 823. Organizational Change and Communication. 3 Hours. This course explores communication processes embedded in organizational change, with a specific focus on identifying the needs, expectations and values of various stakeholders who will be participating in and/or affected by an organizational change. Course focuses on understanding change as an inherently communicative process (rather than only a business strategy). Participants will learn to identify a full range of internal and external stakeholders, recognize the root causes of stakeholder concerns, and understand common sources of “resistance” to change at every level of an organization. Participants will develop a comprehensive communication plan and sample communication documents to engage the full range of stakeholders in change planning, implementation and long-term integration into organizational culture and structures related to a change of their choice. LEC.

PFS 825. Communication Practices for Inclusive Organizations. 3 Hours. This course examines the challenges and opportunities facing individuals in organizations. Weekly discussion and assignments will examine the challenges and opportunities employees/members face based on navigating organizational structures, workplace cultures and leadership actions. Participants will develop strategies to build inclusive workplace around race, gender, age, sexuality, (dis)ability, socioeconomic status, and other social identities. Challenges and opportunities related to intersectional identities will be explored as well. The class has an applied, practical focus featuring weekly guest speakers and focus on becoming more aware of forms of personal privilege and becoming advocates for meaningful change within organizations. LEC.

PFS 827. Communication Ethics for Managers and Leaders. 3 Hours. This course examines current leadership communication and workplace culture issues through a lens of communication ethics. The course uses several frameworks for identifying ethical issues in the communication used to organize people and ideas within organizations and communities. Communication ethics and related power dynamics shaping communication processes and outcomes will be explored related to employee engagement campaigns, corporate communication tactics, leadership and management communication practices, conflict resolution practices within organizations, and communicating organizational change. Participants will gain skills and confidence to recognize and actively engage with the communication ethics concerns embedded in today’s daily workplace interactions, leadership and management communication, decision-making processes, organizational policy creation, and corporate communication initiatives. LEC.

PFS 829. Communicating Across Workplace Generations. 3 Hours. This course explores the dimensions of the popular “generations” framing of age-related diversity in the modern workplace. This course will unpack and challenge the concept of “generations” and its implications for workplace cultures, policies, leadership and career development practices. Course will explore different types of generations that emerge within organizations related to factors like workplace cohort, team dynamics and individual lifestage. Organizational communication assumptions, patterns and practices will be centered as a factor in shaping the individual experiences of these generational members, with the goal of identifying new strategies for stimulating meaningful, productive cross-generational working relationships, mentoring and collaboration across organizations. LEC.

PFS 831. Case Studies in Organizational Communication. 3 Hours. This course explores the ways we organize ourselves through communication, both within and beyond traditionally-structured organizations. We’ll examine traditional, new and emerging messages, practices and structures used to organize people across traditional boundaries. The course will explore “hidden” forms of organization that shape our personal experiences and public discourse, ranging our informal professional networks to a variety of online “dark web” groups organizing followers around non-traditional belief systems. Discussion will explore the role of loss of trust in formal institutions, technology and social media, and groups seeking to intentionally disrupt and dismantle traditional forms of organization. Participants will recognize the full range of ways communication can be used to (dis)organize groups, create new organizations and social movements, and influence public discourse and organizations. LEC.
PFS 833. Communication and Team Development. 3 Hours.
This course will explore team development through the lens of communication, exploring requisite individual teaming skills, team-level processes and organizational-level norms and structures. The course will provide research-based insights to help team managers and leaders facilitate more effective team onboarding, decision-making and conflict management processes across organizational structures, while recognizing individual difference and utilizing inclusive communication practices that fuel rewarding teamwork, positive project outcomes and career development for all. Course content will discuss necessary forms of organizational-level sponsorship, structures, technology access, and training necessary to support team communication and development. This course will be especially helpful for those serving in (or seeking to advance into) team management and leadership roles. LEC.

PFS 835. Interpersonal Communication Skills at Work. 3 Hours.
This course provides research-based interpersonal communication insights for developing personal effectiveness across increasingly global, complex and resource-constrained organizations. Course content and activities will help professionals work on personal skill development related to building effective working relationships, initiating difficult conversations, navigating conflict, building internal and external networks, effectively advocating for self and others, and demonstrating a commitment to personal communication ethics. Insights and skill practice will focus on developing a personal communication skillset for working effectively across various situations, cultural contexts and stakeholder groups. Content will be helpful for both individuals and managers/leaders recognizing the need to further develop their interpersonal skills in various workplace settings. LEC.

PFS 837. Communication Strategies for a Virtual Workforce. 3 Hours.
This course explores the communication challenges and opportunities presented by remote work in geographically dispersed organizations. Course content and activities will explore how leaders, managers and front-line staff can utilize communication-based relationship-building skills, as well as project planning, meeting facilitation and technological tools to build productive working relationships, stronger teams and optimal productivity across multiple workplace structures, cultures, project teams, time zones and geographies. Participants will gain valuable insights about the human needs embedded in virtual work as well as gain practical skills needed for leading successfully in a virtual work environment. LEC.

PFS 839. Conflict Dynamics in Organizations. 3 Hours.
This course explores the multiple sources and levels of conflict in organizations. Course content will help participants recognize and address the historical and cultural roots of conflict in organizations. Course activities will help develop the individual insights and communication skills necessary to initiate meaningful change to conflict management processes within teams and organizations, with the goal of facilitating more equitable, fair and trusting work relationships, communication flows, and positive outcomes for all. This course will be especially helpful for those looking to advance into management and leadership positions. LEC.

PFS 841. Intercultural Communication in Organizations. 3 Hours.
This course explores the intercultural communication dynamics that influence individual work satisfaction, workplace relationships, team effectiveness and project outcomes across an increasingly global workforce. Course content and activities will focus on understanding how national and regional cultural differences influence group and team dynamics. Special focus will be on de-centering one's own cultural norms and personal preferences and adapting to engage in communication that signals respect for cultural difference at work. Topics will include developing personal awareness, appreciation and skills required to respectfully and effectively engage difference related (but not limited) to language, time, gender, family status, religion, and the role of organizational hierarchies in shaping colleagues' communication at work. Course will focus on how to adapt to these areas of difference and using strategies for integrating flexibility while collaborating with diverse colleagues to achieve shared organizational goals. LEC.

PFS 850. Interview-Based Research in Organizations. 3 Hours.
The course provides hands-on practice designing an interview or focus-group based research project. Activities build skills related to project design, managing sponsor and stakeholder pressures, interview questions crafting, managing interview dynamics, ensuring confidentiality and research ethics, conducting data analysis, crafting findings, report writing, delivering a final presentation to stakeholders. Major course activity involves working with sample data and crafting a future research proposal for an organization selected by the participant. LEC.

PFS 860. Exploring Communication Theory. 3 Hours.
This course explores the theories that provide deeper insight into underlying individual, group, organizational and societal level factors influencing communication patterns, practices and policies in organizations. This course provides a solid understanding of the unique value of the communication studies lens for examining common workplace communication issues at the individual, team and organizational levels. Participants will leave the course with a toolkit of organizational communication concepts and theories for better understanding "what's really going on here," providing a powerful set of insights for identifying, unpacking and addressing common issues related to coworker relationships and conflict, managerial and leadership communication, diversity and inclusion, and workplace culture, to name just a few. LEC.

PFS 895. Independent Study in Organizational Communication. 1-3 Hours.
This course is reserved for students working independently with faculty supervision to study a topic of interest. The specific topic and related readings, assignments and meeting schedule will be worked out between the faculty member and individual student(s) and pre-approved by the faculty member leading the independent study. A permission code is required to register for PFS 895 course hours. LEC.

PFS 898. Capstone Project in Organizational Communication. 3 Hours.
This course provides hands-on practice designing an interview or focus-group based research project. Activities build skills related to project design, managing sponsor and stakeholder pressures, interview questions crafting, managing interview dynamics, ensuring confidentiality and research ethics, conducting data analysis, crafting findings, report writing, delivering a final presentation to stakeholders. Major course activity involves working with sample data and crafting a future research proposal for an organization selected by the participant. LEC.

Courses

PMGT 800. Special Topics: ______. 3 Hours.
Advanced or experimental work of specialized nature representing unique or changing needs and resources in project management. Prerequisite: PMGT 816, Project Management-Master of Engineering plan code, or PMP Certified. LEC.

PMGT 802. Innovation and Change Management Process. 3 Hours.
This course will examine innovation models and change management process utilized by successful organizations. The course will emphasize how these concepts relate to project management within an organization and the management of technical operations. The course will address the following topics: -Key models for innovation and how they impact planned change processes -Key organizational factors that impact planning for
change -Strategies for change within project work -Resistance to change within planned change process -Ethical considerations relating to change management LEC.

PMGT 806. Finance for Project Manager. 3 Hours.
A study of finance including financial planning and management in technological based organizations. Topics covered include financial statement analysis, present value of financial markets, capital budgeting, taxes, investment decisions, replacement decisions, cash flow budgets and sources of capital. LEC.

PMGT 808. Lean Six Sigma. 3 Hours.
This course is an introduction to the principles of implementing the Lean Six Sigma philosophy and methodology. Lean Six Sigma is a total enterprise philosophy. Topics follow the DMAIC process and include tools and methods such as process flow diagrams, cause and effect diagrams, failure mode and effects analysis, capability studies, and design of experiments. The use of various concepts to reduce waste and improve system performance such as process flow, standardized work, value streams, workplace organization, and visual controls are covered. Course Objectives: -Understand and apply the Six Sigma DMAIC model for improvement activities. -Utilize Six Sigma knowledge and skills to lead successful improvement projects that deliver meaningful results. -Facilitate the use of improvement tools and techniques in improvement projects. LEC.

PMGT 809. Personal Development for Project Managers. 4 Hours.
Concepts and skills development in the primary areas of communication methods, ethical behavior, conflict resolution, workforce diversity, and continuous learning, and secondary areas of basic project and project team contexts and related interpersonal relations. Career development is emphasized. LEC.

PMGT 810. Financial Management. 3 Hours.
A study of the concepts and applications of financial planning and management for project and operational managers. Topics include time value of money, asset valuation, capital structures and budgeting, financial analysis and cash flow, and project and operational investment decision-making. Course Objectives: -Knowledge and understanding of the principles of financial planning and management. -Knowledge and skills with corporate structures, financial institutions, and investments. -Knowledge and skills with financial reports including balance sheets, income statements and financial ratios. -Ability to apply time valuations, cash flows, and taxation in project and operational environments. -Ability to apply capital structures and budgeting in project and operational decisions. LEC.

PMGT 811. Project Contracts and Procurement. 3 Hours.
An advanced study of the project procurement and contract administration bodies of knowledge and their applications. The project procurement's place in a supply chain life cycle is covered from needs identification to contract closeout with emphasis on requirements definition, vendor selection, contract negotiation and award, service delivery, and performance monitoring. Course Objectives: -Knowledge and understanding of the theories, principles, and benefits of the project procurement life cycle. -Knowledge and application of procurement planning and contract administration best practices, processes, and tools. -Practical application of the project management body of knowledge specific to project procurement management. -Practical application of the supply chain and commercial business body of knowledge specific to contract award, execution, and closeout. LEC.

PMGT 816. Project Management Fundamentals I. 3 Hours.
Managerial concepts and skills development in relation to the project-oriented business environment, project lifecycle, integrated project management, project selection, and project initiation. Focus is on management of a single project. LEC.

PMGT 817. Project Management Fundamentals II. 3 Hours.
Planning concepts and skills development in relation to developing needed information on project scope, time, cost, and risk, and making direct use of such information to develop key documentation such as the project schedule and budget. Examples of specific topics considered include project work content and change, documentation, and resource requirements. Planning content is complementary to that of PMGT 818. Prerequisite: PMGT 816. LEC.

PMGT 818. Project Management Fundamentals III. 3 Hours.
Concepts and skills development in relation to planning for management of communications, human resource aspects of project team formation and development, procurement, and quality. Examples of specific topics considered include information handling, reporting, and stakeholder relationships. Planning content is complementary to that of PMGT 817. Prerequisite: PMGT 816. LEC.

PMGT 819. Project Management Fundamentals IV. 3 Hours.
Concepts and skills development in relation to project execution, including processes monitoring and controlling, and project closeout. Examples of specific topics considered include handling change requests, procurement, teamwork and team development, and cost management. Course content represents systematic treatment of all aspects of project management beyond planning but is, in project execution and closing phrases. Prerequisite: PMGT 816. LEC.

PMGT 820. Management of New Product Development Projects. 3 Hours.
This course discusses how to properly manage new product development processes using project management tools and techniques. New products are not projects until they are analyzed, planned, scheduled, budgeted, managed, and controlled by managers. It is not typical technical process issues that result in failed new product introductions, but rather a failure in their management and marketing. Prerequisite: PMGT 816, Project Management-Master of Engineering plan code, PMP Certified. LEC.

PMGT 821. Management of Consulting Projects. 3 Hours.
Application area course exposing students to specialized knowledge, standard, and regulations involved in managing consulting projects. Attention is directed to unique characteristics of consulting project environments, major project phases-from selection to closing-and related management processes. Prerequisite: PMGT 816, Project Management-Master of Engineering plan code, or PMP Certified. LEC.

PMGT 822. Management of Governmental Projects. 3 Hours.
Application area course exposing students to specialized knowledge, standards, and regulations involved in managing projects for governmental entities. Attention is directed to unique characteristics of the governmental project environments, major project phases-from selection to closing-and related management processes. Prerequisite: PMGT 816, Project Management-Master of Engineering plan code, or PMP Certified. LEC.

PMGT 823. Risk Management for Project Managers. 3 Hours.
Advanced study of risk management theory and practice as applied in managing projects. Basic concepts and methods of risk management are reviewed-such as qualitative and quantitative risk assessment-and details then examined. Prerequisite: PMGT 816, Project Management-Master of Engineering plan code, or PMP Certified. LEC.

PMGT 824. Project Cost Estimation, Analysis, and Control. 3 Hours.
Advanced study of cost estimation methodology, cost engineering, and cost control applicable in project management. Includes review of
commonly used supportive software. Prerequisite: PMGT 816, Project Management-Master of Engineering plan code, or PMP Certified. LEC.

**PMGT 825. Portfolio Analysis and Program Management. 3 Hours.**
Review practices and processes to achieve organizational objectives by utilizing portfolio analysis and program management. Project evaluation and selection, funding, and performance tracking processes will be examined as well as the facilitation of these efforts across multi-tiered organizations. Prerequisite: PMGT 816, Project Management-Master of Engineering plan code, or PMP Certified. LEC.

**PMGT 827. Project Team Management and Development. 3 Hours.**
Concepts and methods of team and team member development, achieving higher-performance teams while satisfying organizational expectations. Specific topics include management concepts and practices, team dynamics, and interpersonal skills in negotiation and conflict resolution. Prerequisite: PMGT 816, Project Management-Master of Engineering plan code, or PMP Certified. LEC.

**PMGT 828. Management of Global Projects. 3 Hours.**
Survey of management challenges in conducting international projects, emphasizing cross-culture issues. Differences across world regions and selected key countries in relation to communication and interpersonal norms, business conventions, and legal systems will receive particular attention. Prerequisite: PMGT 816, Project Management-Master of Engineering plan code, or PMP Certified. LEC.

**PMGT 829. Management of Distributed Project Teams. 3 Hours.**
Concepts and methods of conducting high-performance, multi-site team operations, focusing on intra-team communication, coordination, and control. Incorporates review of practical technologies with emphasis on web-enabled approaches. Prerequisite: PMGT 816, Project Management-Master of Engineering plan code, or PMP Certified. LEC.

**PMGT 830. Case Studies in Project Management. 1-3 Hours.**
Reinforcement and demonstration of developing project management skills through case analysis and discussion. Goal is integration of learning across all core courses, and also drawing on content from general management, applications area, and advanced project management elective courses taken. Emphasis is on integrated project management. The students will document their project in a written report and present their project during the final oral examination to the Project Management faculty and student's employer or representative if practical. Prerequisite: Must have completed 21 PMGT credit hours and have completed PMGT 816, PMGT 817, and PMGT 818. LEC.

**PMGT 833. Management of Internal Projects for Scientists and Technical Professionals. 3 Hours.**
The purpose of this course is to introduce the student to all aspects of managing a project within a company or organization. The entire project life cycle will be covered from inception to close-out, and many practical considerations will be discussed including material procurement, working with contractors and consultants, selecting software, and managing the project team. The course will focus on how to manage project scope, schedule budget, and resources using personal computer software. A semester project is required presenting an example of project management or investigating some aspect of project management in detail. LEC.

**PMGT 835. Project Management Capstone. 1-3 Hours.**
The capstone serves as a culminating experience for this degree. Students will develop an applied workforce project or benefit to in the student’s place of employment for full time students. The students will document their project in a written report and present their project during the final oral examination to the Project Management faculty and student’s employer or representative if practical. This course can be taken up to three times for a maximum of three credits. Prerequisite: Must have completed 21 PMGT credit hours and have completed PMGT 816, PMGT 817, and PMGT 818. LEC.

**PMGT 860. Project Management Independent Study. 1-4 Hours.**
Graduate-level independent study of problems or subjects of immediate interest to a student or faculty member. Project topic to be agreed upon in advance with supervising faculty member. May be repeated for credit up to a maximum of four hours in the degree program. Prerequisite: Consent of instructor. IND.