



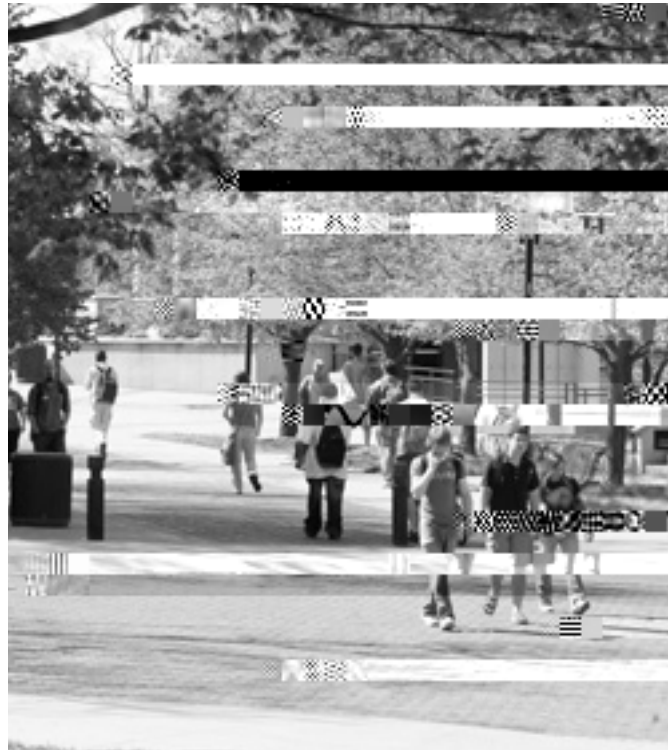
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FA E E E 2013, A DECE BE

- Aug. 16 Friday, university apartments open, 8 a.m.
 Aug. 16/19 Monday, faculty planning.
 Aug. 18 Sunday, residence halls open, 8 a.m.
 Aug. 20 Tuesday, 8 a.m., classes begin.
 Aug. 27 Tuesday, last day for fall semester enrollment
 and changing classes. Waitlist for fall semester
 ends.
 Sept. 2 Monday, Labor Day Holiday, CLASSES
 DISMISSED and UNIVERSITY OFFICES
 CLOSED.
 Sept. 20-22 Friday-Saturday-Sunday, Family Weekend.
 Oct. 11 Friday, final examinations for first-half semester
 classes and end of first-half semester.
 Oct. 14 Monday, second-half semester classes begin.
 Oct. 26 Saturday, Homecoming.
 Nov. 22 Friday, residence halls close, 6 p.m.
 Nov. 25-27 Monday through Wednesday, fall break,
 CLASSES DISMISSED.
 Nov. 28-29 Thursday and Friday, Thanksgiving holiday,
 CLASSES DISMISSED AND UNIVERSITY
 OFFICES CLOSED.
 Dec. 1 Sunday, residence halls open, noon.
 Dec. 9-13 Monday through Friday, fall semester final
 examinations (includes second-half semester
 classes).
 Dec. 13 Friday, residence halls close, 6 p.m.
 Dec. 13 Friday, Graduate School Commencement.
 Dec. 14 Saturday, Undergraduate Commencement.
 Dec. 24-Jan. 1 Winter holidays,
 UNIVERSITY OFFICES CLOSED.

E E E 2014, A A A

Jan. 1 RING SEMES



Student Progress Checklist

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- ❑ Complete Application for Admission to Graduate Studies. Submit \$30 application fee at least three weeks prior to the first semester you plan to take a graduate course. Admission for international students may be found at . / .
- ❑ Request that all transcripts of work completed at other colleges be sent to Graduate Studies at the time application for admission to Graduate Studies is made.
- ❑ Receive notification regarding your admission to UCM from the Graduate Studies office within one week after all needed materials are received by Graduate Studies.
- ❑ Submit the Free Application for Federal Financial Aid (FAFSA) prior to April 1 each year at . . .
- ❑ Receive and respond to your Financial Aid Notification, mailed from UCM's Student Financial Services, several weeks after submitting your FAFSA.
- ❑ Apply for Federal Stafford Student Loan aid after receiving your Financial Aid Notification.

- ❑ Respond to directives from your department. Contact your assigned adviser and request a time for a personal interview immediately upon receiving notice of your acceptance into program

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- ❑ Receive notification regarding your acceptance into a degree program and designation of adviser from the department offering your program within two weeks after the Graduate Studies office notifies you of admission status.

C

The personnel in the Offices of Graduate Studies and Sponsored Programs seek to provide quality services to support graduate education and research at UCM. These offices are located in Ward Edwards, Suite 1800.

Graduate Studies	660-543-4621
Toll free:	877-729-8266
Dean of Graduate Studies.....	660-543-4621
Director of Sponsored Programs.....	660-543-4264
Associate Dean of Graduate Studies	660-543-4621
Director of Graduate Studies	660-543-4897
Systems Coordinator	660-543-8579
Student Services Coordinator.....	660-543-8423

The University of Central Missouri is a comprehensive, public university dedicated to providing personalized higher education experiences for a diverse body of students. Through its commitment to service and excellence, UCM seeks to meet the educational needs of the region, with extended responsibility to meet state, national, and international needs through selected programs.

From its establishment in 1871, and until 1947, UCM offered only undergraduate studies. Changing needs prompted continual improvement and development of the curriculum. In 1945, the State General Assembly, responsive to the needs of the state and to requests from teachers, authorized a change in name as well as an extension of mission. This legislation provided the legal basis for the establishment of graduate studies. Graduate work leading to the Master of Science in Education degree was offered for the first time in 1947.

The guiding principles of graduate education at UCM have remained constant since its inception. Graduate work demands independent, critical, and creative thinking, the ability to collect, organize, and develop data, and the ability to formulate, interpret, and defend conclusions.

Programs leading to the Master of Arts, Master of Science, Master of Science in Education, Master of Business Administration, Master of Arts in Teaching, the Education Specialist, and Cooperative Doctoral degrees have been added since 1947, and are a direct response to the needs of the citizens of the state of Missouri. In 1996, a statewide mission in academic technology for the University of Central Missouri was approved to "acquire, disseminate and utilize technology to enhance the university's comprehensive educational mission and to enrich the lives of all Missourians."

The University of Central Missouri is a comprehensive, public university dedicated to student learning and committed to service and excellence. Through a foundation in the liberal arts, professional degree programs, personalized higher education experiences, and use of current academic technologies, UCM prepares a diverse body of students to be lifelong learners who are proficient in their fields of study, able to adapt to a changing world, and contribute to the betterment of society. UCM serves as Missouri's lead professional technology institution, and is committed to acquiring, disseminating, and utilizing technology to enhance the university's comprehensive educational mission and to enrich the lives of all Missourians.

In order to fulfill its mission, the University of Central Missouri:

- Admits graduates of accredited high schools based on specific admission criteria, actively recruits traditionally under-represented students, and offers a strong merit-based scholarship program to attract highly capable students.
- Provides a learner-centered academic environment which challenges individuals to participate actively in the educational process and empowers the faculty to excel in teaching while engaging in scholarship, research, creative activities and public service.
- Offers an undergraduate foundation in the liberal arts, with an emphasis on integrating critical thinking, interaction, valuing, communication skills and technological applications into the curriculum across all disciplines.

- Provides pre-professional, professional, academic and career-oriented undergraduate and graduate programs to meet the changing and technological needs of the workforce.
- Provides in-service instruction for technical educators and other professionals needed to make Missouri competitive in a national and world market
- Continues its historical emphasis in preparing educators for Missouri.
- Provides advanced graduate studies and research in areas of particular strength and need.
- Uses assessment to enhance teaching, learning, research and all university operations.
- Fosters a campus community responsive to the needs of a diverse student population, provides opportunities for global awareness, and promotes an appreciation for human diversity.
- Shares human and academic resources with schools, businesses, industries, and public agencies through partnerships and outreach activities.
- Serves as a cultural, artistic and information center for the citizens of Missouri.

Approved by the Board of Regents, June 19, 2003

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- National Council for Accreditation of Teacher Education
- The Missouri Department of Elementary and Secondary Education
- The Association to Advance Collegiate Schools of

The mission of Graduate Studies at the University of Central Missouri is to provide high-quality graduate programs that are offered in multiple delivery modes and meet the needs of the students' personal and professional development, forwards their educational advancement and adapts to the changing needs of the workforce. Graduate Studies accomplishes its mission by creating an environment conducive to learning, scholarship, and creativity for both students and faculty.

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Significant in the organization and administration of Graduate Studies are the Graduate Faculty Assembly, Graduate Council, Graduate Faculty Review Committee, University Research Council, Director of Sponsored Programs, graduate advisers and coordinators, the faculty as a body, Director of Graduate Studies, and the Dean of Graduate Studies. The dean reports directly to the Provost and Vice-President for Academic Affairs.

F A – The Graduate Faculty Assembly (GFA) is the governing body of graduate programs for the university. The GFA is comprised of all members of the Graduate Faculty and the administrators assigned to Graduate Studies. Recognizing that input from the graduate faculty is crucial to the quality of graduate education, the GFA provides a forum for discussion of graduate education issues and elects members to the Graduate Council (GC) and Graduate Faculty Review Committee (GFRC). Graduate faculty members of the GFA are recognized as associate or full members with differing rights and responsibilities.

F C – The Graduate Faculty Review Committee (GFRC) serves to review initial and reappointment applications for Full Graduate Faculty Status. Review of requests for initial and reappointment applications for Associate Graduate Faculty Status are conducted by the Dean of Graduate Studies. The GFRC is composed of four full members of the Graduate Faculty Assembly, elected by the GFA. The chair-elect of the Graduate Council serves as chair of the GFRC and votes only in cases of a tie. The Dean of Graduate Studies and the Director of Graduate Studies serve as ex officio, non-voting members.

C – The Graduate Council (GC) develops and reviews university policies and procedures for graduate education; reviews and recommends graduate curriculum; monitors the quality of graduate programs of the university; and advises the Graduate Dean on university, college, and department policies and procedures as set forth in the "Graduate Catalog."

The Graduate Council is composed of 12 members. Full members of the GFA nominate and elect from their number nine representatives to the GC: four at-large members and one representative each from the College of Arts, Humanities, and Social Sciences, College of Education, Harmon College of Business and Professional Studies, and College of Health, Science, and Technology. Two graduate student members are appointed by the Graduate Student Association. The Dean of Graduate Studies and the Director of Graduate Studies serve as ex officio, nonvoting members.

C – The University Research Council formulates policies and procedures pertaining to faculty research

The petition will then be forwarded for review by the Graduate Dean. If the student is not satisfied with the Dean's decision, the petition will be forwarded to the Graduate Council for review. The Graduate Dean may request the Graduate Council to review exceptional cases or those in which there may be the appearance of a conflict of interest without first rendering a decision. The decision of the Graduate Council is final in all appeals submitted to it by the student or the Graduate Dean.

To ensure compliance with federal and state laws, codes, regulations, and accreditation requirements, the following policies are not subject to appeal by the student:

- The minimum number of semester credit hours required to receive a graduate certificate or degree.
- The maximum hours of C grades that can be applied toward a graduate degree or certificate.
- The maximum hours of transfer credit that can be applied toward a degree or certificate.
- The minimum overall UCM graduate GPA required to receive a graduate certificate or degree.
- The minimum number of required semester credit hours taken at the 5000/6000 level in courses offered for only graduate credit at the University of Central Missouri to receive a graduate degree.
- The minimum graduate grade point average required for admission to the University of Central Missouri as a transfer graduate student.
- The minimum graduate grade point average required for appointment as a graduate assistant.
- The minimum graduate grade point average required to be re-appointed as a graduate assistant.
- The minimum graduate grade point average required at the time of degree being awarded.

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The Office of Accessibility Services provides accommodations to persons with disabilities. A minimum of 48 hours notice is recommended for accommodations for programs, events, and

three final examinations scheduled on any one day may request permission to move one of the examinations to another day during the final examination period. There is no charge for this, but approvals must be secured as described above. Resolution of conflicting examination schedules, as well as arranging make-up examinations, must be made with class instructors.

A non-degree visiting student may at any time apply through the regular procedures to be admitted as a degree-seeking or non-degree student. Credits earned as a non-degree visiting student will not necessarily apply to a degree program. After acceptance into a program, the department adviser will determine whether credit earned while a non-degree visiting student is applicable to the proposed program.

F F A – In accordance with federal rules, non-degree and visiting students normally are not eligible to receive federal financial aid. To be eligible, a student must be fully admitted to a regular graduate degree or teaching certification program.

A – A transfer graduate student is one who has completed graduate credit at another institution within the preceding eight years. Transfer students with less than a cumulative graduate GPA of 3.0 will be admitted as non-degree students and will not be eligible to become a degree-seeking student until a minimum of nine semester hours of graduate credit with a minimum cumulative GPA of 3.0 has been achieved at UCM. A transfer student should follow the same admission procedures as indicated above.

– Students who do not enroll in graduate courses within one year of admission to the School of Graduate and Extended Studies must reapply for admission. Graduate students who were not enrolled the previous semester must contact the School of Graduate and Extended Studies either in person or by phone to update records before enrollment can be completed. International students should contact the International center for readmission.

C E C – A UCM undergraduate student interested in taking courses for graduate credit during the last semester of the baccalaureate degree should apply to the School of Graduate and Extended Studies. A completed graduate application for admission, a Dual Enrollment Form, and a statement from the registrar listing remaining baccalaureate requirements must be submitted. To be considered, the student must have an undergraduate cumulative grade point average of 2.50. If a student enrolls in graduate credit courses during the last semester of the baccalaureate degree, the student must complete the baccalaureate degree that semester. In addition, for purposes of qualifying for federal financial aid, the student will be classified as undergraduate at the senior level. If the baccalaureate degree is not obtained during that semester, the graduate courses taken will revert to undergraduate credit. Combined undergraduate and graduate total enrollment must not exceed 16 semester hours.

A International graduate students applying for admission may complete a paper application or apply online at www.gradcenter.ucm.edu. A non-refundable application fee of \$75 must accompany the application. Payment may be made by credit card, international money order drawn on a U.S. bank, or a personal check drawn on a U.S. bank. International applicants may fulfill the English proficiency requirements in one of the following ways:

1. TO EFL score of 550 (PBT) or score of 79 (IBT), IELTS score of 6.0, or PTE-Academic score of 53.
2. Earned a degree from an accredited United States college or university

3. Earned at least 24 semester hours of regular university credit from an accredited United States college or university
4. Applicants whose native language is English and who are citizens of a country where English is the official language will be considered as having fulfilled the minimum English requirement

Prospective students submitting application materials from outside the U.S. should provide all of the materials for admission consideration at least three months before intended enrollment. Prospective students planning to transfer to UCM from another U.S. institution should submit application materials for admission review at least one month before intended enrollment.

F F A – If a student is classified by the U.S. Immigration and Naturalization Service as an “eligible non-citizen” or “permanent resident,” (s)he may be considered eligible to receive federal financial aid. Documentation of the student’s status must be provided to Student Financial Services, Ward Edwards Building 1100.

– All international students are required to participate in the Student Health Insurance Program.

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– University of

assistantship includes a scholarship with a maximum monetary amount. The scholarship for less than full-time assistantships will be adjusted accordingly.

Please be aware that any scholarship received as part of an assistantship can have an impact on the total amount of federal student loan and employment assistance a graduate student is eligible to receive. The amount of the assistantship (stipend) has no impact on the total federal financial assistance received during the year for which the assistantship has been awarded. For additional information, contact UCM's Student Financial Services.

For further information about graduate assistantships, contact the Graduate Studies office, Ward Edwards 1800, at 877-729-8266, or visit [ucm.edu/graduate](#).

successfully completed at least two-thirds of the credit hours attempted during an academic year in order to be eligible for financial aid for the subsequent year. In addition, a graduate student must maintain at least a 3.0 cumulative graduate GPA.

– The University of Central Missouri Student Financial Services is a liaison between students requiring veteran services and the Veterans Administration offices in St. Louis and Kansas City.

Support is also provided to students enrolled at UCM who are in the Military Reserve/National Guard (Chapter 106), on active duty or no longer in the military but eligible for VA educational benefits (Chapter 30), Veterans Vocational Rehabilitation students (Chapter 31), dependents of military personnel (Chapter 35), and personnel who contributed to the Veterans Educational Assistance Program (Chapter 32).

For information or assistance completing the proper documentation to ensure VA educational benefits are received in a timely manner, contact Student Financial Services:

Office Location: Union 117
Telephone: 660-543-8990, **Fax:** 660-543-8044
Email: lmorse@ucmo.edu

The Missouri Department of Higher Education has issued regulations to be applied by Missouri universities to determine the resident status of students. The burden of proof in establishing residency rests with the student. Students who are legal minors or tax-dependents whose parents reside outside the state of Missouri are not eligible for resident fee paying status. One can be classified as a resident for fee purposes immediately upon moving to the state if the move is to accept full-time employment (or if one is the dependent of someone who came to Missouri to accept full-time employment.) In other situations continuous domiciliary presence in the state for 12 months must be proven AND sufficient proof of intent to be domiciled in Missouri permanently must be provided. Residency is determined by each educational institution and residency for attendance at a community college or obtaining a driver's license or serving in the Missouri Guard will not necessarily mean a residency determination for fee purposes. Applications and additional information is available for prospective students in the Graduate Studies office.

- F C

If a non-resident student pays income tax in Missouri, or is in the legal custody of a parent who pays income tax in Missouri, a credit will be provided against the non-resident student fee. For information on this credit contact Student Financial Services.

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Other non-federal forms of financial assistance, such as scholarships and fellowships, are also available from the University of Central Missouri. Federal aid recipients should be aware, however, that receiving other types of financial aid, including assistantship fee waivers can sometimes mean an adjustment in the federal aid that may have already been awarded.

– The university realizes that many students are dependent upon federal financial assistance to satisfy the costs of attending UCM. However, students are still expected to have some money on hand to pay for incidental costs during the first few weeks of each semester. If an emergency arises, however, a

If a fee amount would be reduced due to load changes caused by failure of classes to materialize or class cancellation by the university, a full refund for that class will be made.

NOTE: A federal financial aid recipient who drops to less than half-time enrollment status should be aware that depending on his/her class attendance records, some or all of the assistance credited to the student's UCM account for the semester may have to be reversed.

NOTE: Students participating in a Study Abroad program, when permitted to withdraw from a course, will not receive any refund.

Students who find it necessary to withdraw from UCM should initiate the procedure in the Office of Student Experience and Engagement (Administration 214, 660-543-4114). International students must notify the International Center (Ward Edwards 1200, 660-543-4195) prior to beginning the process of withdrawal from the university. Graduate assistants who go below the minimum required hours may lose their assistantship. The following refund schedule for instructional fees applies to students who are financial aid recipients.

- Withdrawal prior to the announced deadline for full payment of all charges for the current semester: full refund.
- Withdrawal during second week of classes: 50

computation. Each semester hour of credit is valued as follows: A=4 points, B=3, C=2, D=1, F=0, WF=0.

A – Students should refer to the current “UCM Planner/Handbook” for information regarding appeals of final grades, courses, classes or other academic matters. The policy provides a procedure for students who feel aggrieved in their relationship with the university, its policies, practices, procedures or its faculty and staff. This policy is not for reviewing instances where a student has been accused of cheating, plagiarism or other academic dishonesty. Also not covered by this policy are grievances based on discrimination.

A – The university’s policy on academic honesty may be found in the current “UCM Planner/Handbook.” Students must be aware that the consequences of violating standards of academic honesty are extremely serious and costly and may result in the loss of academic and career opportunities. Students found to have committed violations against academic honesty face removal from university classes and degree programs, and/or suspension from the university.

C – Changes in class schedules should be made during the Drop and Add period. Such changes will not be entered on the permanent record. Any request for adding a course after the Drop and Add period must be processed through the department. Such requests are subject to approval by the Dean of Graduate Studies.

During the Withdrawal period, a student may withdraw from any full-semester class using the self-enrollment system. Consultation with the course instructor is also recommended. A grade of W is recorded on the final grade sheet.

After the tenth week of the semester, withdrawal from a class is usually not allowed. In enrollment periods other than semester, withdrawal from classes is not permitted during the last one-third of the period. With unusual and extenuating circumstances, a student may submit a written petition to Graduate Studies for a late withdrawal from a course along with a statement of approval and assigned grade from the instructor.

– Students who leave the university should officially withdraw through the Office of Student Experience and Engagement, Administration Building 214. In the event that a student fails to initiate this process, his/her

withdrawal may not be considered complete and grades of F will be recorded for failure to attend classes. Withdrawal during the last five weeks of a semester while receiving a failing grade in a course will result in the recording of a WF on the permanent record. Regulations governing credit for room and board payments are found in the housing contract. (See Credit Policy for information on the credit of fees.)

C – A student pursuing a graduate certificate may seek admission to a degree program simultaneously or at a later date. The student must file an application for admission to Graduate Studies and pay the required application fee for a master’s degree. This fee will be in addition to the application fee required for a magfee willEs037le tspursuing a g mit a written peti:EFF00COHo07sty

The Master's degree at the University of Central Missouri provides

will be ineligible for a degree/graduate certificate. A student who becomes ineligible for a degree cannot earn a degree from UCM.

C **A** – Whenever a student’s graduate cumulative grade point average is computed, only graduate credit completed at UCM is included. No transfer work may be used to change probation action. All UCM grades, including all grades of courses that have been repeated, are included in the computation. Each semester hour of credit is valued as follows: A=4 points, B=3, C=2, D=1, F=0, WF=0.

A **A** – Students should refer to the current “UCM Planner/Handbook” for information regarding appeals of final grades, courses, classes or other academic matters. The policy provides a procedure for students who feel aggrieved in their relationship with the university, its policies, practices, procedures or its faculty and staff. This policy is not for reviewing instances where a student has been accused of cheating, plagiarism or other academic dishonesty. Also not covered by this policy are grievances based on discrimination.

A – The university’s policy on academic honesty may be found in the current “UCM Planner/Handbook”. Students must be aware that the consequences of violating standards of academic honesty are extremely serious and costly and may result in the loss of academic and career opportunities. Students found to have committed violations against academic honesty face removal from university classes and degree programs, and/or suspension from the university.

C – Changes in class schedules should be made during the Drop and Add period. Such changes will not be entered on the permanent record. Any request for adding a course after the Drop and Add period must be processed through the

The Education Specialist degree at the University of Central Missouri provides for additional graduate-level study beyond the master's degree. Education Specialist degree programs are offered in three broad curricular areas: Administration, and Human Services. Within these broad areas the programs are flexible, involving discipline specializations. Individual programs must be developed with departmental approval.

– At least 18 semester hours of the approved program must have been at the 5000/6000 level. If the approved program of study is more than 30 semester hours, at least fifty-percent of the semester credit hours must have been at the 5000/6000 level. Courses used to fulfill the minimum number of semester hours at the 5000/6000 level must be in courses taught only to graduate students and must be taken at UCM. A minimum of six of these hours must be at the 6000 level.

C – A student pursuing a master's degree may enroll in graduate courses that are not a part of the approved master's degree program and which could at a later time be presented for use for an Education Specialist degree program providing (1) that the student has applied for and been accepted into an Education Specialist degree program contingent upon the completion of a master's degree and (2) that such courses were taken while the student was completing the last 12 hours of the master's degree program.

– All courses that satisfy program requirements must have been completed during the eight-year period immediately preceding graduation.

C – Most courses numbered at the 4000 level are offered for either graduate or undergraduate credit. A 4000 level course taken for undergraduate credit may not be applied or repeated for graduate credit. A 4000 level course taken for graduate credit will have additional course requirements. Courses numbered at the 5000 and 6000 level are offered only for graduate credit. Only a student with 10 or more semester hours of graduate credit may enroll for 6000 level.

– A graduate student may enroll in a maximum of 16 hours per fall or spring semester including both undergraduate and graduate-level courses. Maximum course loads for summer semester are six hours during a three-week session and 12 hours for the entire summer semester. Under extenuating circumstances, students with at least a 3.50 graduate grade point average, may submit a petition to the Dean of Graduate Studies through their academic department to enroll in more than the maximum number of semester hours. Approval must be granted prior to the semester in which the student wishes to enroll for more than the maximum hours. Petitions from students who have grades of "U" in regular courses will not be granted.

A full-time graduate student is one enrolled in nine or more semester hours of graduate credit during the fall and spring semesters and six semester hours during the summer session. The average enrollment for graduate students is 12 hours per semester.

– Not more than 18 semester hours on an approved Education Specialist degree program may be individualized study. A student is limited to six semester hours of credit in internship on an Education Specialist degree program. A student is limited to a maximum of six semester hours of credit in thesis or in an individual research project on an Education Specialist degree program.

The first semester a student earns below a 3.0 cumulative GPA he/she will be placed on probation. The second consecutive semester a student earns below a 3.0 cumulative GPA he/she will be continued on probation. The third consecutive semester a student earns below a 3.0 cumulative GPA he/she will be ineligible for a degree. A student who becomes ineligible for a degree cannot earn a degree/graduate certificate from UCM.

C **A** – Whenever a student's graduate cumulative grade point average is computed, only graduate credit completed at UCM is included. No transfer work may be used to change probation action. All UCM grades, including both grades of courses that have been repeated, are included in the computation. Each semester hour of credit is valued as follows: A=4 points, B=3, C=2, D=1, F=0, WF=0.

A **A** – Students should refer to the current "UCM Planner/Handbook" for information regarding appeals of final grades, courses, classes or other academic matters. The policy provides a procedure for students who feel aggrieved in their relationship with the university, its policies, practices, procedures or its faculty and staff. This policy is not for reviewing instances where a student has been accused of cheating, plagiarism or other academic dishonesty. Also not covered by this policy are grievances based on discrimination.

A – The university's policy on academic honesty may be found in the current "UCM Planner/Handbook." Students must be aware that the consequences of violating standards of academic honesty are extremely serious and costly and may result in the loss of academic and career opportunities. Students found to have committed violations against academic honesty face removal from university classes and degree programs, and/or suspension from the university.

C – Changes in class schedules should be made during the Drop and Add period. Such changes will not be entered on the permanent record. Any request for adding a course after the Drop and Add period must be processed through the department.

During the Withdrawal period, a student may withdraw from any full-semester class using the self enrollment system. Consultation with the course instructor is also recommended. A grade of W is recorded on the final grade sheet.

After the tenth week of the semester, withdrawal from a class is normally not allowed. In enrollment periods other than semester, withdrawal from classes is not permitted during the last one-third of the period. With unusual and extenuating circumstances, a student may submit a written petition to the Graduate Studies office for a late withdrawal from a course along with a statement of approval and assigned grade from the instructor.

– Students who leave the university should officially withdraw through the Office of Student Experience and Engagement, Administration Building 214. In the event that a student fails to initiate this process, his/her withdrawal is not considered complete and grades of F will be recorded for failure to attend classes.

Withdrawal during the last five weeks of a semester while receiving a failing grade in a course will result in the recording of a WF on the permanent record. Regulations governing credit for room and board payments are found in the housing contract. (See Credit Policy for information on the credit of fees.)

C **D** – A student may initiate a change from one degree program to another degree program

by contacting the Graduate Studies office to complete the proper forms. Graduate credit earned on one degree program may not be applicable on a different degree program. In the event of a change in degree program a student must meet all requirements of the new degree program. A student should consult with departmental advisers about specific details. A student may initiate a change from one degree program to another degree program only if they are in good standing with a cumulative graduate grade point average of 3.0 or above.

A **E** – Departments may require students to take an aptitude examination before filing the Program of Study. Students should check specific program requirements listed elsewhere in this catalog and with the graduate program adviser.

C **E** – Departments may require students to take a comprehensive examination. Students should check specific program requirements listed elsewhere in this catalog and with the graduate program adviser.

E – Departments may require students to take a qualifying examination before filing a Program of Study. Students should check specific program requirements listed elsewhere in this catalog and with the graduate program adviser.

– The Office of Sponsored Programs oversees programs that guide Central Missouri in its research, scholarly activity and creative endeavors. The office maintains information about funding opportunities, assists in proposal development and submission and ensures compliance with award management and reporting. Sponsored Programs is located in Ward Edwards 1800; 660-543-4264; fax 660-543-4778; research@ucmo.edu;

– A thesis is the result of research, scholarly, or creative activity that gives evidence of independent, critical, and creative investigation. The thesis demonstrates a mastery of defining and developing a research, scholarly, or creative problem, of the relevant literature of the discipline, of specific research methodology, and the ability to analyze and interpret data as well as draw conclusions and recommend further investigation. Research papers report scholarly findings discovered through library investigation or provide a synthesis of research specific to the area of study. All theses and research papers are presented in an accepted publication style.

– Students who are seeking an Education Specialist degree are required to complete a thesis or a research paper.

– Students should obtain a copy of the UCM Thesis Manual from . / .

– In order to comply with federal regulations and to protect the health and safety of human or animal subjects involved in research, all research protocols involving the use of human or animal subjects must be in compliance with Academic Procedures and Policies #9: Procedures for Human or Animal Subjects Review. In all cases involving human or animal subjects in research, an application must be completed and approved in advance by The Human Subjects Review Committee or the Institutional Animal Care and Use Committee before the research may start. Information and applications are available at . / .

A – Federal law requires that all research projects involving the use of selected mammals and birds be conducted to ensure humane treatment of animals. Accordingly, all such projects, regardless of the funding source, must be approved in

advance by the Institutional Animal Use and Care Committee. Forms are available at [www.ucmo.edu/graduate](#).

A D – When an applicant requests admission to a specific graduate program, the Graduate Studies office will send copies of the applicant's credentials to the department offering the proposed program. The department, after examining the credentials, will decide upon the student's acceptance into the program. The department will notify the student of its decision. Students must enroll in classes in the program within 12 months or reapply for admission to the program. After a review of the student's credentials, the staff of the department may determine that the student should fulfill certain departmental requirements before submitting a Program of Study or before applying for the degree. These requirements will be specified by the department at the time of acceptance into the program.

A C – When a student is accepted into a program, the department chair will appoint a faculty member as chairperson of the student's graduate program committee and two additional graduate faculty members to serve on the student's advisory committee. The student shall seek the advice of the program adviser about enrollment, program planning (including any changes), qualifying examinations, submission of the Program of Study, research studies and/or thesis, comprehensive examinations, and eligibility for graduation. In all situations, the adviser shall work closely with other members of the advisory committee.

A D – If acceptance is denied into a specific program, a student may ask the Graduate Studies office to have his/her credentials forwarded to another department. If no request is made, the student will be classified as a Non-degree Student.

F – A Program of Study should be submitted to the graduate program adviser as soon as admission procedures are complete. It is the obligation of the student to ensure a Program of Study is filed with the Graduate Studies office.

Students must file the Program of Study within one month after the completion of 12 hours of graduate study. Students who fail to do so are not eligible to enroll in further coursework until the Program of Study has been submitted.

No substitutions are permitted for courses required in the degree program when a student has earned a grade below a B in the course.

C – A student submitting a Program of Study for the current academic year, must use this catalog as a basis for program requirements. A student must earn academic credit at UCM during the academic year of the catalog chosen. The course and program requirements are listed in this catalog.

– To file the Program of Study the following procedures must be followed:

1. The student must complete the Program of Study form and submit it to his/her graduate adviser. All classes must be listed on the Program of Study before submission to Graduate Studies.
2. When the student's graduate adviser approves the Program of Study, the adviser forwards it to the graduate program coordinator/adviser, who in turn forwards it to the Graduate Studies office.
3. The Program of Study is presented to the Dean of Graduate Studies for final approval.

4. The Dean of Graduate Studies will notify the graduate program coordinator/adviser of the action taken. The graduate program coordinator/adviser notifies the student.

C – All students seeking certification should check specific program requirements listed elsewhere in this catalog and with the graduate program adviser. It is the responsibility of the student wishing to receive any additional education certification to consult with the Director of Clinical Services and Certification, Lovinger 2170, 660-543-4881.

E D

A student becomes eligible for graduation by meeting all requirements for the degree. Included among the requirements, a student must:

- Complete satisfactorily all required background courses and all courses listed on the approved Program of Study, or those subsequently approved.
- Remove all U grades.
- Earn a graduate grade point average of 3.0 or higher on all graduate courses applicable to the Education Specialist degree program taken within the eight years immediately prior to the date of graduation. Earn a cumulative grade point average of 3.0 on all graduate courses that are a part of the student's program of study and on all graduate work completed at UCM.
- Complete and submit research papers, if required, for departmental approval.
- Complete and submit thesis, if required, to the departmental committee for final approval. Submit completed thesis to the Graduate Studies office for final approval.
- Satisfy all departmental requirements.

A student may apply for graduation after all requirements have been completed or during the semester in which all requirements will be completed. Application for Degree packets may be obtained in the Graduate Studies office at the beginning of each semester.

- Submit an Application for Degree card to his/her graduate adviser by the deadline date indicated in the graduation packet for the semester in which the student expects to graduate. The Application for Degree Deadline Dates are available at www.ucmo.edu/graduate.
- Submit a Certificate of Eligibility for a Graduate Degree to his/her adviser by the deadline date indicated in the

General Policies Applying to a Doctoral Degree

D E E – Students may pursue a Doctor of Education (Ed.D.) in Educational Leadership at the University of Central Missouri. The degree is conferred by the University of Missouri - Columbia. The program uses a cohort format that requires the student to complete required coursework in two years. A dissertation follows the coursework. Students are accepted into the cohort group every two years by meeting entrance requirements which include a master's degree, a substantiated goal of Educational Leadership, GRE scores, undergraduate and graduate GPA, evaluation of a writing assessment and a personal interview. The curriculum includes the following broad themes:

- Organizational Analysis
- Leadership Theory and Practice
- Analyzing Educational Policy
- Content and Context for Learning
- Research and Inquiry and Evaluation

Study commences with a summer schedule on the University of Missouri-Columbia campus. Fall and spring semester courses are taught on campus and at UCM's Summit Center (CSC) by UCM faculty. Following a second summer of study in Columbia, as well as fall and spring study at UCM and CSC, students enter the dissertation stage of the degree. For more information contact the Department of Educational Leadership and Human Development, Lovinger 4101 or call 660-543-4341.

D – UCM is participating as a charter member of an eight-university consortium offering this degree, which is conferred by Indiana State University. This degree takes advantage of distance education technology with courses available through Internet, telecommunication, and other media. Selected courses are also available on the respective campuses.

The doctoral program is designed to provide students with planned opportunities to increase their depth and breadth of knowledge in technological studies. Students must complete a minimum of 90 semester hours of graduate study above the baccalaureate degree, with a majority of the coursework at the 6000 level or higher.

The program of study includes 24-30 semester hours in an area of technical specialization. Admission occurs through Indiana State University. The Graduate Record Exam (GRE) is required.

In accordance with federal rules, any federal financial aid a doctoral student may be eligible to receive is processed and disbursed by the school (i.e., University of Missouri or Indiana State University) from which the doctoral degree will be granted. For more information, contact the Department of Industrial Technology, call 660-543-4340 or email woolsey@ucmo.edu or visit www.woolsey.com.



- ACC** - Accounting
AE - Academic Enrichment
AE - Aerospace
A - Agriculture
A - Anthropology
A - Art
A - Athletic Training
A A - Aviation
BAD - Business Administration
B - Biology
B A - Legal Studies
B E - Business Teacher Education
CD - Communication Disorders
CD - Crisis and Disaster Management
CFD - Child and Family Development
C E - Chemistry
C - Chinese
C - Computer Information Systems
C - Criminal Justice
C - Construction Management
C - Communication
C - Computer Science
C E - Career and Technology Education
D& - Dietetics and Nutrition
D ED - Driver Education
EA C - Earth Science
ECE - Elementary and Early Childhood Education
EC - Economics
EDF - Educational Foundations and Literacy
ED - Special Education
EE - Electronics Engineering Technology
E - English
E - Engineering Technology
E - Entrepreneurial
E - Electronics Technology
FC E - Family and Consumer Science Education
FA E - Fashion and Apparel Merchandising
F - Finance
F D - Field Experience
F D - Food
F E - French
E - Geography
E - German
A - Graphics
ED - Health Education
 - History-) .005A7 -1.475 A 1 (-) / 13 1 () *(FC) /

SECTION IV

A E ' DE EE E '5153.5354.5889 688.460134004600531 E REFF006 05389.90057004A0044

Elemú — ustrial Hygiene

Industrial M9 07400100340044004Tj27.96 344A008010005001ment

FD400 Antancy and Information Technology

Communication and Instruction Computer Science

English Counseling

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Environmental Studies Criminal Justice

History Educational Technology

Music Industrial Hygiene

Sociology Industrial Management

Teaching English as a Second Language Industrial Technology

Theatre Kinesiology

A

Middle School Education

Secondary Education

B A

Accounting Concentration

Ethical Strategic Leadership Concentration

Finance Concentration

General Concentration

Information Systems Concentration

Marketing Concentration

Sports Business Concentration

Aviation Safety

Biology

Career and Technical Education Leadership

College Student Personnel Administration

Library Science and Information Services

Mathematics

Nursing, Rural Family

Occupational Safety Management

Psychology

Social Gerontology

Speech-Language Pathology

Technology

E

Curriculum and Instruction

Elementary Education - Curriculum and Instruction

Elementary Education - School Administration

Secondary Education - School Administration

K-12 Education - Special Education

Literacy Education

COLLEGE OF ARTS, HUMANITIES, AND SOCIAL SCIENCES

The **Communication and Sociology** is comprised of:

- The Department of Communication and Sociology
- The Department of English and Philosophy
- The Department of Government, International Studies and Languages
- The Department of History and Anthropology
- The School of Visual and Performing Arts
 - The Department of Arts and Design
 - The Department of Music
 - The Department of Theatre and Dance

D **C**
Martin 136 • 660-543-4840
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C **CA** / **A** **C** **CA** ,
A **52 350**
EEC **C** **CA** , **A** **52 361**

The graduate with a Master of Arts degree in Speech Communication will use the knowledge and skills obtained in the program to:

- Understand the theoretical bases of speech communication.
- Conduct research that contributes to the creation, expansion, and/or application of knowledge in the field of speech communication.
- Demonstrate an understanding of an area of specialization in the field of speech communication.
- Demonstrate creative thinking, problem-solving, and independent study skills.

The graduate with a Master of Arts degree in Mass Communication will use the knowledge and skills obtained in the program to:

- Understand the theoretical bases of mass communication.
- Conduct research that contributes to the creation, expansion, and/or application of knowledge in the field of mass communication.
- Demonstrate an understanding of an area of specialization in the field of mass communication.
- Demonstrate creative thinking, problem-solving, and independent study skills.

The department of communication embraces the traditions, study, and practice of symbolic interaction through a variety of communication genres. The graduate program is designed to advance student's preparation for scholarly or professional endeavors.

To be accepted into this program, a student must have a minimum overall undergraduate grade point average of 2.50 and a minimum grade point average of 2.75 in at least 15 hours of undergraduate communication courses. Students with less than 15 hours of course work in communication may be accepted, but before any courses are taken for graduate credit, they must have a minimum of 15 semester hours of approved undergraduate courses in communication with a minimum grade point average of 3.0.

A student who is required to complete background courses must fulfill this requirement by taking specified courses in an undergraduate area of concentration – Digital Media Production, Public Relations, or Communication Studies – to ensure a specialized skill sequence in communication. In addition, international students scoring below 550 paper based (213 electronic based or 79-80 internet based) on the TOEFL will be required to pass the TOEFL Oral English Test (213 for electronic). Students must also complete a research component. There are two research options: thesis (COMM 5890) or non-thesis. Non-thesis students may also be required to take comprehensive exams.

As part of the admissions process, each student seeking admission to the department as a degree-seeking candidate must complete the following:

- Submit a Statement of Purpose for Graduate Studies — The statement should be 1-2 pages, typed and double-spaced. Please address the following areas in your statement:
 - The relationship (if any) between previous training/experience, graduate studies, and your professional goals.
 - Professional position and career activities you wish to pursue after completing the program.
 - Specific goals you wish to achieve in graduate studies.
 - Planned area(s) of interest in graduate studies.
 - Additional Information you feel is relevant.
- Submit three Recommendation forms.

A student may be required to demonstrate proficiency in one modern language or statistics, or other approved research tool, depending upon the student's area of interest or completion of the program.

	A	C	CA	Sem. Hours
E	ED	AD	A E C	E 7
	COMM	5000	Introduction to Graduate Study in Communication	1
	COMM	5810	Theories of Communication	3
	COMM	5800	Quantitative Research Methods	3
	COMM	5820	Qualitative Research Methods	3
E	EA	C	. . . . .	3-6
	COMM	5890	Thesis	6
	COMM	6890	Research Problems (N.EF2.C.F2.C.F2.C.F02E002aa0.3	

undergraduate sociology or related areas. A student without the 15 semester hours in sociology or related areas may be required to complete up to 15 hours of background courses in sociology prior to enrolling in 5000 or 6000 level courses.

After admissions is accepted all students should meet with the Graduate Coordinator to discuss required courses for the degree.

Eligibility for Internship must be approved by the Program Coordinator prior to beginning the practical experience.

Students are required to submit a portfolio demonstrating knowledge and skill development which is reviewed by a minimum of two graduate faculty members in Sociology to meet graduation requirements. The portfolio must receive a minimum evaluation of Acceptable prior to degree completion.

Sem. Hours

E	ED	AD	A	E	C	E	.....	18
E	F						.....	6
	SOC	4860					Sociological Thought	3
	SOC	5800					Theories of Society	3
	SOC	5880					Seminar in Sociological Theory	3
E							.....	6
	SOC	4890					Social Survey Research	3
	SOC	5810					Qualitative Research	3
	SOC	5815					Evaluation Research	3
E	EA	C					6
	SOC	6880					Internship	6
	SOC	6890					Thesis	6
AD	A	E	E	EC	E	C	15
	AD	A	E			A	33

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The student with a Graduate Certificate in Women, Gender and Sexuality will use knowledge and skills acquired in the program to:

- Articulate a complex understanding of gender and sexuality, historically and cross-culturally.
- Critically utilize understandings of gender and sexuality in professional, work or civic settings.
- Apply leadership skills to civic and community decisions affecting issues of equality.

To be accepted into the program, a student must have a Bachelor's degree with a minimum overall GPA of 2.75 (based on 4.0). The program is designed to provide further knowledge and credentials for those already in their careers to allow for advancement or to supplement a Master's degree to demonstrate a secondary area of expertise. A final Civic Engagement project is required. Students, who are co-enrolled in the Graduate Certificate and a Master's Degree program, may use the final product in the major program as the final project for the certificate as long as it is addressing aspects of gender or sexuality. We would ask that the student do a public presentation, hosted by WGS. If there is no final product or if the Graduate Certificate is taken as a stand-alone degree, each student will negotiate an independent final project that has a civic engagement component.

Sem Hours

E	ED	AD	A	E	C	E	.....	3
	WGS	5450					Seminar in Gender and Sexuality	3
AD	A	E	E	EC	E	F	.....	9
C							.....	5000
	ANTH	4820					Anthropology of Gender	3
	CFD	4420					Sexuality Across the Lifespan	3
	CFD	4850					Family Policy and Advocacy	3
	CFD	5280					Professional Issues in Sexuality Education	3

CJ	4403	Sexual Assault and the Criminal Justice System	3
CJ	4920	Women and Crime	3
COMM	4285	Women and Minorities in the Media	3
COMM	4335	Gender Communication	3
ENGL	4560	British Women Writers	3
ENGL	4660	Women Writers of the United States	3
HED	4320	Teaching Sexuality Education in the School	3
HIST	4310	Women in America	3
HIST	4327	African-American Women, Gender and Childhood	3
HIST	4419	Women in Modern Europe	3
NUR	4030	Human Sexuality	

educational background, teaching and/or research experience (if any), and reasons for pursuing an M.A. in English.

Sem. Hours

E	ED	AD	A	EC	E	.....	27
ENGL	5000					Introduction to Graduate Study in Language and Literature.	3

This course must be taken the first semester it is offered during the student's enrollment. See graduate adviser for exception.

E	9
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Students must take courses from at least three of the following periods, including at least one ENGL 5210

English Literature Before 1500.	3
English Literature from 1500-1640.	3
English Literature from 1640-1800.	3
English Literature from 1800-1920.	3

HARMON COLLEGE OF BUSINESS AND PROFESSIONAL STUDIES

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The

- Software Engineering Track - Design, Develop and Implement robust IT solutions using contemporary Architecture and Design methods and varied development platforms.
- Internet Track - Design, Develop and Implement robust Web based IT solutions.

E :

- To understand systems architecture and systems development strategies.
 - To be familiar with tools to develop quality software.
 - To have in-depth knowledge of active directory design, installation and configuration.
 - To be familiar with TCP/IP.
 - To understand concepts of OO Design.
 - To understand standard systems design strategies.
 - To understand OO /COM implementation using .NET languages
 - To be familiar with development of enterprise wide distributed systems using Visual Studio.
- :**
- Develop clientbased, multi-platform, dynamic Web content following a strong Web design philosophy.
 - Develop server-based, dynamic Web content and in managing a Web server resources with consideration for organizational and technical issues.
 - To have in-depth knowledge of active directory design, installation and configuration.
 - To be familiar with TCP/IP.

The Computer Information Systems and Information Technology program is designed to serve two types of students. First, those who have an undergraduate degree and would like to make a career change to computer information technology, and second, those who are already in the information technology workforce and would like to enhance their career growth in a specialized area.

**Software Engineering
Internet Technologies**

To be admitted to the program, a student must have a minimum undergraduate grade point average of 2.5. Candidates must complete the Graduate Record Examination (GRE) with a minimum score of 1000 in any two areas or Graduate Management Admission Test (GMAT) with a minimum score of 500. Courses completed prior to receipt of an undergraduate degree can not be used toward this program. A thesis is not required.

Sem. Hours

E ED DE AD A E BAC DC E 0-15

The following undergraduate courses (or equivalents) are required. Some of the requirements may be waived on the basis of the Computer Information systems (CIS) track. Undergraduate work already completed may be used to satisfy these requirements.

CIS	2605	Programming with Visual C#	3
CIS	2615	Introduction to Java.	3
CIS	2665	Principles of Data Communications and Local Area Networking.	3
CIS	3650	Database Management Systems.	3
CIS	3660		

SAFE 5940 Current Literature and Research in Safety . . . 3
AD A E E EC E**5**
AD A E A**32**

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EEC - A A E A ,
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The graduate with a Master of Science degree in Speech-Language Pathology will use the knowledge and skills obtained in the program to:

- Apply theory and principle, guided by logic to analyze, synthesize and evaluate information regarding prevention, assessment and intervention concerning communication differences and disorders and swallowing or other upper aerodigestive disorders.
- Provide prevention, assessment and intervention services to children and adults across a wide range of disorders and differences including speech, language, swallowing or other upper aerodigestive functions, cognitive aspects of communication, sensory awareness related to communication and additional recognized and emerging areas of practice.
- Demonstrate skill in oral and written language to achieve effective clinical and professional interaction and communicate in a manner that reflects knowledge appropriate to professional role and diverse settings.
- Exhibit professional behavior as defined in the cardinal documents of the American Speech-Language-Hearing Association (ASHA), including but not limited to Certification Standards for the Certificate of Clinical Competence in Speech-Language Pathology, ASHA Scope

this course sequence will have priority for all externship and internship placements.

F

1 F

CD	5504	Adult Neurogenic Language Disorders	3
CD	5502	Fluency Disorders	3
CD	5507	Special Projects or CD 6901 Thesis	2-3
CD	5810	Graduate Clinical Practicum	1
A			9-10

1

CD	5503	Voice Disorders	3
CD	5902	Research Design	3
CD	5811	Advanced Graduate Clinical Practicum	1
CD	5508	Adult Swallowing Disorders	2
A			9

1

CD	5402	Advanced Issues in Child Language Disorders	3
CD	5811	Advanced Graduate Clinical Practicum	1
CD	5515	Rehabilitation of Cognitive Linguistic	2
A			6

2 F

CD	5101	Professional Issues in CD.	2
CD	5509	Pediatric Feeding and Swallowing Disorders	2
CD	5506	Motor Speech Disorders	3
CD	5811	Advanced Graduate Practicum (optional extern R/F).	2
A			9

2

CD	5910	Praxis Exam Preparation for Speech-Language	1
CD	5501	Articulatory and Phonological Disorders	3
CD	5811	Advanced Graduate Clinical Practicum	1
CD	5802	Externship	2
CD	5511	Assistive Technology Across the Lifespan.	2
A			9

2

CD	5801	Medical Internship*	4
A			4

Students who have not taken Aural Rehab, will need to add this course.

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It is the mission of the Department of Criminal Justice to ensure that all our graduates master a comprehensive curriculum in criminal justice which is dynamic, rigorous, and that prepares them to excel and become leaders

- Communicate and interact professionally in scholarly, academic settings.
- Delineate the ethical principles of human subject protection in social science research.

This program is designed for those students who wish to enter and/or progress in the criminal justice fields of law enforcement, corrections, and juvenile justice; or who plan to seek positions in leadership, professional specialization, research, or instruction in criminal justice.

A - To be considered for admission to the Accelerated M.S. Degree in Criminal Justice, students must have completed 45 hours of undergraduate coursework towards a degree in criminal justice at the University of Central Missouri and have earned a 3.0 GPA. To apply students must have submitted a completed Application for the Accelerated Degree through the Department of Criminal Justice, a 1000-word writing sample expressing educational and career goals and reasons for interest in the program, 2

The **C** **E** is comprised of:

- The Department of Career and Technology Education
- The Department of Educational Foundations and Literacy
- The Department of Educational Leadership and Human Development
- The Department of Elementary and Early Childhood

2

C EA

This option is designed for current or new CTE administrators pursuing administrator certification and should be pursued consistent with the candidate's official certification plan. This option may also be selected by candidates planning to pursue CTE administration in the future or for current CTE administrators pursuing additional leadership coursework:

	E	EDC	E (	)	18
CTE	4180	Adult Programs in Career Education			3
CTE	5150	Introduction to Career Administration			3
CTE	5160	Legal Issues in Career Education			2
T&OE	5170	Financing Career Education			2
EDAD	5120	School Law			3
EDAD	5130	School Supervision			3
EDAD	5520	Secondary School Administration			3
EDAD	5710	Public School Finance			3

3

C E

This option is designed for CTE industry personnel who plan and/or conduct training in their environment or who desire to become more effective leaders in their current positions. This option will be tailored to the candidate's specific needs in any CTE-related field. The approved electives below are a sample listing of potential university-wide electives (department consent required).

	E	ED	AD	A EC	E	9
CTE	4145	Curriculum Construction in Career and Technical Education				3
CTE	4160	Methods of Teaching Career and Technical Education				3
CTE	6990	Thesis				3
SOT	5022	Internship				3-6
INDM	4210	Industrial Management				3
INDM	4220	Human Factors Engineering				3
INDM	4230	Lean Quality Management				3
INDM	5015	Legal Aspects of Industry				3
MGT	4300	Health Care Administration				3
MGT	4310	Total Quality Management				3
SAFE	4000	Ergonomics in Safety and Health				3
SAFE	4430	Workers Compensation Legislation				3
SAFE	5010	Organization, Administration, and Supervision of Safety Programs				3
HRM	4930	Compensation and Benefits				3
HRM	4960	Employment and Development				3

A E CE / EC

A D CC A A ED CA , E 61 247

The graduate with an Education Specialist degree in Technology and Occupational Education will use the knowledge and skills obtained in the program to:

- Lead others to effectively communicate orally and in writing.
- Refine one's personal philosophy statement related to their discipline/career field.
- Analyze and lead discussions on current issues related to the student's discipline/career field.
- Solve problems related to the student's discipline/career field.
- Practice and lead life-long learning activities as they relate to professional responsibilities.

- Read, interpret, conduct, and contribute scholarly research consistent with department, university, state, and federal practices.
- Apply statistical methods to interpret, describe, and infer from existing or newly generated data.
- Interact with, contribute to, and lead professional, government, and other stakeholder organizations in the student's discipline/career field.

This advanced program is designed for individuals who are currently involved in or planning careers in the administration and/or teaching Career and Technical education programs.

To be accepted into this program, students must: (1) have earned a masters degree in the area of specialization or have completed 15 semester hours of appropriate background courses at either the undergraduate or graduate level; and (2) have achieved a cumulative grade point average of 3.25 in the masters degree.

In addition, applicants must submit two professional letters of recommendation and a personal letter of intent describing how this degree will assist them in meeting their career goals.

Applicants who do not meet the above criteria will be classified as a "non-degree student" until they: (1) provide evidence of having completed 15 semester hours of appropriate background courses; and (2) obtain a 3.5 GPA during the first 12 hours of graduate study in courses appropriate to the degree program.

Graduation requirements include one of the following four options: (1) a Thesis (unless completed for a Master's Degree); (2) two scholarly research papers consistent with University requirements to be submitted for publication; (3) a comprehensive examination; or (4) successfully complete the Missouri Assessment Center Examination for their content area.

	E	ED	AD	A EC	E	Sem. Hours
A						24
F	DA	C	E			6
	PSY	4520	Statistics for the Behavioral Sciences			3
	SAFE	4940	Introductory Quantitative Methods			3
	CTE	6990	Thesis			3
	SOT	5010	Applied Research for Technology			3
			AD A E	A		30
ED CA			A EC			53 846

The graduate with a Master of Science degree in Educational Technology will use the knowledge and skills obtained in the program to:

- Inspire and participate in the development and implementation of a shared vision for the comprehensive integration of technology to promote excellence and support transformational change throughout the instructional environment.
- Assist teachers in using technology effectively for assessing student learning, differentiating instruction, and providing rigorous, relevant and engaging learning experiences for all students.
- Create and support effective digital-age learning environments to maximize the learning of all students.
- Conduct needs assessments, develop technology-related professional learning programs, and evaluate the impact on instructional practice and student learning.
- Model and promote digital citizenship.
- Demonstrate professional knowledge, skills, and dispositions in content, pedagogical, and technological areas as well as adult

learning and leadership and are continuously deepening their knowledge and expertise.

Professional studies in educational technology provide individuals desiring to become teachers, educational technology coordinators, and school administrators with technological concepts and skills, field experiences, instructional technology leadership skills, and a foundation in educational research related to the application of technologies in education. Our graduates in educational technology address critical societal needs for technology leadership from such professional positions as teachers and trainers, instructional designers and developers in business and industry, school library media specialists, distance learning teachers and specialists, producers of computer mediated learning materials, technology administrators and policy makers, and performance technologists and university faculty members and administrators. With a statewide technology mission, the University of Central Missouri is a leader in the region.

Acceptance into the program requires three letters from references who can attest to the applicant's professional and academic abilities, and one of the following: a 2.75 or higher cumulative GPA or a GPA of 3.0 on the last 60 undergraduate hours. Applicants who do not meet one of the above must work with the graduate coordinator to design a program and must complete the first 12 hours of that program with a minimum GPA of 3.5 to be accepted.

Students without background courses in Education or Educational Technology may require additional course work. A Bachelor of Science in Education is strongly recommended.

Sem. Hours

E	ED	AD	A	EC	E	.....	.21
INST	5100					Foundations of Educational Technology	3
INST	5220					Communication in Online Learning Communities	3
INST	5320					Assessing and Evaluating Online Instruction . .	3
INST	5330					Educational Product Development and Management	3
INST	5390					Educational Technology Leadership	3
CTE	5900					Introduction to Research Methods	3
INST	5500					Online Course Development	3
INST	6930					Internship in Educational Technology	3
AD	A	EE	EC	E	A	.....	.9
		AD	A	E	A	.....	.30
A	E	CE	/ED	CA	A	EC	



C	/	E	(6262)
			Sem. Hours
E	ED	AD	A E C E 24
EDFL	5120		Advanced Foundations of Education 3
EDFL	5130		Middle School Foundations 3
EDFL	5340		Contemporary Instruction: Theory into Practice 3
EDFL	5400		Differentiation in K-12 Learning Environments 3
EDFL	5410		Advanced Curriculum Development and Assessment 3
EDFL	5440		Middle School Curriculum and Instruction . . 3
EDFL	5900		Introduction to Research 3
EDFL	6110		Capstone 3
AD	A E E C	E	..... 6
	AD	A E	A 30

C	,	E	(6263)
			Sem. Hours
E	ED	AD	A E C E 21
EDFL	5120		Advanced Foundations of Education 3
EDFL	5320		Curriculum Development and Assessment . . 3
EDFL	5340		Contemporary Instruction: Theory into Practice 3
EDFL	5400		Differentiation in K-12 Learning Environments 3
EDFL	5410		Advanced Curriculum Development and Assessment 3
EDFL	5900		Introduction to Research 3
EDFL	6110		Capstone 3
AD	A E E C	E 9
	AD	A E	A 30

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The Master of Science in Education in Literacy Education degree from the Department of Educational Foundations and Literacy is designed to address the five International Reading Association's Standards for Reading Professionals.

The graduate with a Master of Science in Education degree in Literacy Education will use the knowledge and skills obtained in the program to:

- Demonstrate expertise in the foundations of reading and writing processes and instruction.
- Foster the use of instructional approaches, materials integrated, comprehensive, balanced curriculum to support learning in reading and writing.
- Be responsible for managing and monitoring a variety of assessment tools and practices to plan and evaluate effective reading and writing instruction.
- Model, create and engage students in literacy practices that develop awareness, understanding, respect and a valuing of differences in our society.
- Create a literate environment that fosters reading and writing by integrating foundational knowledge, instructional practices, approaches and methods, curriculum materials, and the appropriate use of assessments.
- Demonstrate a commitment to professional development as a career-long effort and responsibility.

There are three M.S.E. degree programs available from the Department of Educational Foundations and Literacy. To be accepted into the Master of Science in Education in Literacy Education degree program in the Department of Educational Foundations and Literacy, a student must: (a) have a minimum undergraduate grade point average of 2.5; (b) submit proof of teacher certification or professional endorsement from any of the 50 states or territories and have graduated from an NCATE or regionally accredited university; (c) submit a copy of his/her last summative teaching

evaluation (i.e., a PBTE or similar evaluation form), or a letter from a school superintendent, principal or professor attesting to teaching skills and/or graduate studies potential. Applicants who do not meet these criteria must design, with a department adviser or graduate coordinator, a conditional program and complete the first 12 hours of that program (including the department's research course) with a minimum grade point average of 3.50. International applicants should meet these requirements in comparable ways.

The following requirement applies to the M.S.E. in Literacy Education degree program EDFL 5900 or an adviser-approved alternative research course must be taken within the first 12 hours of a program. A portfolio is required for the completion of the degree.

			Sem. Hours
E	ED	AD	A E C E 26
EDFL	4210		Teaching of Reading in Secondary Schools. . 2
EDFL	5205		Methods and Materials for Literacy Enhancement 3
EDFL	5210		Assessment of Literacy Development 3
EDFL	5240		Advanced Language Arts 3
EDFL	5250		

D

- Knowledge of student development theory and its application.
- Characteristics of college students including subcultures.
- Knowledge of effective college environments and learning communities.
- Assessment instruments relevant to college students.
- Techniques to construct programs and events.

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- Research design and data analysis.
- Skill in statistics sufficient to interpret research reports and to participate in research projects.
- Skill in selecting, administering, and interpreting standardized group assessments.
- Competence in determining the effectiveness of programs and policy.

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The Counselor Education Program offers two degrees, the Master of Science in Counseling and the Education Specialist Degree in Human Services, Professional Counseling. The Counselor Education Program is designed to meet the academic requirements for certification as professional school counselors and for licensure as a professional counselor (LPC). The program is approved for the school counselor certificate issued by the Department of Elementary and Secondary Education (DESE). The Counselor Education Program also provides assistance to students who desire a planned program leading to renewal of or change in certification as school counselors and school Psychological examiners (SPE).

Students may also select courses that fulfill academic requirements for registered play therapists (RPT) and licensed professional counselors (LPC). All students, including those seeking additional certification and licensure must apply to and be accepted by graduate studies and the Counselor Education program.

The Counselor Education Program operates within the framework of the American Counseling Association (ACA) Code of Ethics and Standards of Practice and the most current American School Counselor Association (ASCA) Code of Ethics. Students are expected to comply with the ACA and ASCA Codes of Ethics and all applicable University and Department rules, policies and bulletins, which are subject to change from time to time.

1. **A C** To be considered for admission to the Counselor Education Program, applicants must first be admitted to Graduate Studies and provide the Counselor Education Admissions and Standards Committee with a completed application file that contains:
 - a. A completed Counselor Education Application Form.
 - b. Official transcripts of all undergraduate and graduate course work from any post secondary educational or professional institution or any other school experience following high school. To be considered for eligibility, the applicant's GPA must be 2.50 or higher in the total undergraduate course work, 2.75 or higher in the last 60 hours of undergraduate course work and 3.0 or higher for graduate course work. It is the applicant's responsibility to request and ensure that all official transcripts are on file.
 - c. An official report of the results for the student's Graduate Record Examination (GRE) General Test taken during the last three years. To be considered for eligibility, a minimum combined score of 900 (GRE completed prior to August 2012) or 295 (GRE completed after August 2012) on the verbal and quantitative portions of the examination and 3.5 or greater on the analytical writing measure are required. Applicants who have completed a graduate degree from a regionally accredited institution may petition the Admissions and Standards Committee for an exception to the GRE requirement. (See Requirements for Progression in the Program, item 2.)
 - d. A resume with complete listing of previous educational and employment experiences.
 - e. Three recommendations, prepared within the last three years, on the Counselor Education Program Recommendation Form. One recommendation should be from a certified or licensed mental health professional, or counselor educator. All recommendations must be from non-relative individuals who have direct knowledge of the applicant's professional experience and can attest to the individual's potential to work effectively as a counselor.
 - f. An articulate and satisfactory essay explaining the impact of previous employment and professional experiences upon the decision to apply to the counselor education program, reasons for seeking the Master of Science Degree or Education Specialist Degree and appropriate future professional goals in counseling.
 - g. Such other information as deemed necessary and requested of the applicant by the Admissions and Standards Committee.
 - h. To be eligible for consideration, the applicant must also meet all other requirements for admission to graduate study as outlined in the general requirements for graduate studies and all applicable department rules, policies and bulletins, which may be subject to change.
2. **A** Complete application files as described above must be submitted to the Counselor Education Admissions

and Standards Committee. When the file is complete, the applicant must submit a written request for the Admissions and Standards Committee to review the file. Files are typically reviewed within two weeks from the date of request. Applicants with consent from the program coordinator may enroll in COUN 5100 Foundations of Professional Counseling and COUN 5110 Orientation to the Profession Counseling and Ethics as non-degree seeking students. Note: COUN 5100 must be taken prior to COUN 5110 or concurrently with COUN 5110. Contact the Department of Educational Leadership and Human Development Counselor Education Program for further information.

- a. Application files must be completed by the end of the semester for which the applicant is seeking admission. Student will not be considered for admission unless the application file is completed as described above at the date of review. Application files will be carefully reviewed for eligibility by the Admissions and Standards Committee.
- b. If, in the best professional judgment of the Admissions and Standards Committee, the applicant meets the standards for eligibility and his/her file demonstrates the professional dispositions necessary to function effectively and within the

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		E	A			Sem. Hours
E	ED	AD	A	E	C	E 34
EDAD	5110					Foundations of Ed. Administration (should be taken in first 6 hours of program). 3
EDFL	5900					Introduction to Research (should be taken in first 12 hours of the program) 3
EDAD	5120					School Law. 3
EDAD	5130					School Supervision. 3
EDAD	5150					Ethics in Leadership 3
EDAD	5710					Public School Finance. 3
EDAD	5720					Administration of the Middle Grades. 3
EDAD	5770					Instructional Leadership and School Improvement. 3
EDFL	5320					Curriculum Development and Assessment . . . 3
EDAD	5420					Elementary School Administration 3
EDAD	6971					Spring Internship in School Administration . . 2
EDAD	6969					Fall Internship in School Administration. . . . 2
		AD	A	E	A	..... 34

				A			Sem. Hours
E	ED	AD	A	E	C	E 34	
EDAD	5110					Foundations of Ed. Administration (should be taken in first 6 hours of program). 3	
EDFL	5900					Introduction to Research (should be taken in first 12 hours of the program) 3	
EDAD	5120					School Law. 3	
EDAD	5130					School Supervision. 3	
EDAD	5150					Ethics in Leadership 3	
EDAD	5710					Public School Finance. 3	
EDAD	5720					Administration of the Middle Grades. 3	
EDAD	5770					Instructional Leadership and School Improvement. 3	
EDFL	5320					Curriculum Development and Assessment . . . 3	
EDAD	5520					Secondary School Administration 3	
EDAD	6971					Spring Internship in School Administration. . . 2	
EDAD	6969					Fall Internship in School Administration. . . . 2	
		AD	A	E	A	..... 34	

C AD A /E E E A C
C A , E 61 766

C AD A / EC DA C
C A , E 61 768

C AD A / E E DE C ,
E 61 767

The graduate with the Education Specialist degree in School Administration will use the knowledge and skills obtained in the program to promote the success of all students by:

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Sem. Hours

E	ED	AD	A	E	C	E	18-21
EDAD	5730					School Personnel Administration *	3
EDAD	5760					School and Community Relations	3
EDAD	5770					Instructional Leadership and School Improvement*	3
EDAD	6120					Advanced School Law	3
EDAD	6720					School Facilities	3
EDAD	6730					Administration of K-12 Curriculum	3
EDAD	6960					Research Problems	3
C	:					.....	8-12
EDSP	4700					IEP and the law	3
EDAD	5150					Ethics in Leadership	3
EDAD	5520					Secondary School Administration*	3
EDAD	6969					Fall Internship in School Administration*	2
EDAD	6971					Spring Internship in School Administration*	2
INST	5390					Educational Technology Leadership	2
PSY	4520					Statistics for the Behavioral Sciences	3
AD	A	E	E	EC	E ()	
	AD	A	E	A	A	.....	30

* If course was not taken in the master's program or if needed for additional certification.

Sem. Hours

E	ED	AD	A	E	C	E	18-21
EDAD	5730					School Personnel Administration *	3
EDAD	5760					School and Community Relations	3
EDAD	5770					Instructional Leadership and School Improvement*	3
EDAD	6120					Advanced School Law	3
EDAD	6720					School Facilities	3
EDAD	6730					Administration of K-12 Curriculum	3
EDAD	6960					Research Problems	3
C	:					.....	10
EDAD	6700					School District Administration	3
EDAD	6710					Adv. School Finance	3
EDAD	6972					Internship: Central Office Administration**	4
AD	A	E	A	A	A	30

* Only required if course was not taken in the master's program.

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Quality Indicator 3: Diversity and inclusiveness
Quality Indicator 4: Literacy strategies

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The learner outcomes for the Masters of Science in Special Education Degree are the advanced Content Standards established by the Council for Exceptional Children (2009). These outcomes include:

- Develop leadership skills, including proficiency in policy analysis and advocacy.
- Acquire a deep understanding of Special Education program development and organization.
- Acquire skill in research and inquiry and apply those skills to insure continuous instructional improvement.
- Gain a broad understanding of individual and program evaluation and apply that understanding to all stages and purposes of evaluation to make informed educational decisions.
- Promote the success of individuals with exceptional learning needs, their families, and colleagues by embracing professional development and ethical practice.
- Develop and apply a deep understanding of consultation and collaboration to integrate services to individuals with exceptional learning needs, promote understanding, resolve conflicts, and build consensus among educational stakeholders.

At the advanced level, special educators share an array of functions and responsibilities. Reflecting this commonality, the Council for Exceptional Children has validated the above skill set and determined that all special educators shall have mastered these skills as a part of their preparation for advanced practice.

Provisional admission requirements include a valid teaching certificate or a degree in Speech-Language Pathology, and a minimum overall undergraduate grade point average of 2.75 or a grade point average of 3.0 in the last 60 undergraduate credit hours. Admitted students submit official Graduate Record Exam (GRE) scores to be analyzed by Special Education Program Faculty. A minimum of 3.0 on the Analytical Writing section of the GRE is required.

The Master of Science in Education degree program with courses in special education may not include more than one third of the course requirements to be met by courses which are open to both graduate and undergraduate students. The Master of Science in Education degree program in special education is a minimum 32 hour program. For additional details, consult with the Special Education Coordinator in the Department of Educational Leadership and Human Development, LOV 4101.

			Sem. Hours
E ED AD A EC E			24
EDSP	5100	Introduction to Graduate Study in Special Education	3
EDFL	5900	Introduction to Research	3
ECEL	5920	Childhood Research and Development	
EDAD	5120	School Law.	3
PSY	5220	Advanced Child Psychology	3
EDFL	5200	Advanced Educational Psychology	3
EDSP	5700	Advanced Organization and Administration of Special Education	3
EDFL	5320	Curriculum Development and Assessment . . .	3
EDSP	5350	Evaluation of Students with Disabilities	3
EDSP	6980	Internship in Special Education	3
AD A EE EC E			8
AD A E A			32

Aided by an adviser in the student's area of specialization, each student shall select courses in the area of specialization. These areas of specialization include: Behavioral Disorders, Early Childhood Special Education, Learning Disabilities, Mental Retardation, and Severe Developmental Disabilities.

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Student Learning Outcomes- The graduate with a Master of Science in Education degree in Elementary Education will use the knowledge and skills obtained in the program to:

- Demonstrate a commitment to students and their learning.
- Understand the subjects he/she teaches and how to teach those subjects to students.
- Be responsible for managing and monitoring student learning.
- Think systematically about his/her practice and learn from experience.
- Demonstrate his/her commitment as a member of learning communities.

The Master of Science in Education degree in Elementary Education offers courses that are relevant to educators in early childhood and elementary education. The M.S.E. in Elementary Education is designed to address the five propositions of accomplished teaching as prescribed by the National Board for Professional Teaching Standards (NBPTS) for the early and middle childhood education areas.

The M.S.E. degree requires a minimum of 30 hours. To be accepted into the Master of Science in Education degree program in the Department of Elementary Early Childhood Education, a student must: (a) have a minimum undergraduate grade point average of 2.5; (b) submit proof of teacher certification or professional endorsement from any of the 50 states or territories and have graduated from an NCATE or regionally accredited university; (c) submit a copy of his/her last summative teaching evaluation (i.e., a PBTE or similar evaluation form), or a letter from a school superintendent, principal or professor attesting to teaching skills and/or graduate studies potential.

The following requirements apply to the M.S.E. Elementary Education degree program — A student may apply a maximum of six hours of graduate study in Special Projects (ECEL 5000) courses. (Students must consult and get consent from their graduate adviser for exceptions). A maximum of 12 graduate semester hours taken prior to the development of a program of study at UCM and approved by the student's graduate program adviser may be accepted on a program of study. ECEL 5920 must be taken within the first 12 hours of the program.

			Sem. Hours
E ED AD A EC E			20
ECEL	5170	Advanced Foundations of Childhood Education	3
ECEL	5240	Leadership and Analysis of Teaching Children	3
ECEL	5720	Childhood Curriculum and Assessment	3
ECEL	5730	Exemplary Instructional Practices	3
ECEL	5920	Childhood Research and Development	3
ECEL	6800	M.S.E. Internship for Childhood Educators . . .	3
ECEL	6810	M.S.E. Capstone for Childhood Educators . . .	2
AD A EE EC E E A ED A EA			10
AD A E A			30

FIN	5830	Advanced Financial Institutions and Markets	3
FIN	5840	Investment Analysis and Practice	3
B: C		E	18
E		(at least 3 hours should 5000-level courses)	
MATH	4312	Probability Models	4

- Address the needs of society with a sense of professionalism.
- Adapt to a dynamic multidisciplinary technological environment through teamwork, ethical concerns, and effective communication.
- Enter a career in computer science related industry.
- Stay abreast of advancements in the area of computer science.

This program is designed to produce senior computer professionals in the computer industry, and its focus is on the application of technology to solve a variety of practical problems.

Admission Requirements - To be admitted to the program, a student must have a minimum undergraduate grade point average (GPA) of 2.8. Candidates must complete the Graduate Record Examination (GRE) with a minimum combined score of 291 (1000 on the old scale) in Verbal and Quantitative reasoning. The GRE test requirement can be waived if any one of the following conditions is satisfied.

- The student is a graduate of the University of Central Missouri or a regionally accredited college or university with a degree in Computer Science and a GPA of 3.5 or more.
- The student has earned an M.S. or more advanced degree in a closely related discipline.
- The student has a minimum 3 years of significant work experience in the appropriate IT industry.

International students whose native language is not English and do not have a US degree are required to take the Test of English as a Foreign Language (TOEFL). A minimum TOEFL score of 550 (paper based) or 213 (computer-based) or 79 (Internet based) is required. IELTS scores are also accepted at UCM. Regular graduate students should have a band score of 6.0. The TOEFL requirement is waived for applicants who have completed a minimum of 60 semester credit hours or have earned a bachelor or graduate degree from an accredited college or university in the USA. Students who seek graduate assistantships (GA) must submit a Statement of Purpose describing applicants' academic preparation/ experience and how this degree will assist them in meeting their career goals, three letters of recommendation besides other documents required by graduate admission. Applicants who have degrees in some non-computing fields will also be considered for admission. Students may make up their deficiencies in computer science by completing the required undergraduate background courses. Applicants who do not meet one of the above minimum admission requirements may be admitted on a provisional basis and must maintain a 3.0 graduate grade point average during their first semester of study at UCM. Full time students without deficiencies can expect to complete this program in two academic years.

Sem. Hours

E	ED	AD	A	E	C	E	18
CS	5300					Advanced Algorithms and Data Structures	3
CS	5500					Advanced Operating Systems	3
CS	5600					Advanced Database Systems	3
CS	5800					Advanced Computer Networking and Security	3
CS	5900					Compiler Design and Construction	3
CS	5910					Advanced Software Engineering	3

C A B C **0-6**

A:

CS	5040	Master Project	3
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B: A C

C:

CS	6010	Thesis	6
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CS	4100	SAS Programming	3
CS	4110	Mobile Applications Programming with Android	3
CS	4120	Advanced Applications Programming in JAVA	3
CS	4300	Algorithm Design and Analysis	3
CS	4420	Systems Simulation and Modeling	3
CS	4500	Operating Systems	3
CS	4600	Database Theory and Applications	3

CS	4700	Artificial Intelligence	3
CS	4800	Computer Networking	3
CS	4810	Computer Graphics	3
CS	4820	Computer Security	3
CS	4830	Game Development	3
CS	4910	Software Engineering	3
CS	5000	Special Topics in Computer Science	3
CS	5010	Seminar in Computer Science	3
CS	5020	Internship in Computer Science	3
CS	5030	Readings in Computer Science	3
CS	5110	Advanced Applications Programming in C# and .Net	3
CS	5310	Theory of Computation	3
CS	5430	Numerical Analysis	3
MATH	4450	Introduction to Graph Theory	3
AD A E A			30

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The graduate with a Master of Science degree in Psychology will use the knowledge and skills obtained in the program to:

- Demonstrate the ability to interpret and implement advanced statistics in research.
- Employ an understanding of statistics and research designs to evaluate psychological science and practice.
- Demonstrate an understanding of the factors associated with individual and cultural differences within psychology.
- Identify ethical and legal issues encountered by psychologists in research, educational, and practice settings.
- Articulate strategies for managing ethical dilemmas encountered by psychologists.
- Describe and explain how biological, social, learned/cognitive factors impact behavior.
- Evaluate the reliability and validity of psychological assessment methods and measures.
- Demonstrate basic competency in administering and scoring intelligence and other psychological assessments.
- Use written and oral communication skills that demonstrate competence in APA style and language of the psychological profession.
- Create works, products, or outcomes that illustrate technological abilities.

This program is designed to prepare students for employment that utilizes acquired psychological knowledge and skills as well as provide a basis for further graduate study. There are two ways to be considered for admission:

The student must be fully admitted to Graduate Studies and have a minimum GPA of 3.0 in at least 12 hours of undergraduate psychology courses at an accredited institution.

The applicant must also submit three letters of recommendation; a formal statement of purpose; and an official score report from the Graduate Record Examination (GRE) Verbal, Quantitative, and Analytical Writing sections.

The student must be fully admitted to Graduate Studies. In addition, the applicant must have a minimum GPA of 3.0 in 12 or more credit hours of graduate Psychology courses at an accredited institution. The applicant must also submit three letters of recommendation; a formal statement of purpose; and an official score report from the Graduate Record Examination (GRE) Verbal, Quantitative, and Analytical Writing sections.

Selection will be based on the applicant's GPA, GRE scores, consistency of the statement of purpose with program goals, and letters of recommendation indicating high potential for graduate work in psychology. There is no minimum score required on the GRE, but preference will be given to applicants with a combined Verbal + Quantitative score of 1000 or higher.

Completed applications will be considered on a space available basis until one week before the first day of classes for the fall and spring semesters. Although admission occurs on a year round basis, the sequence of courses is designed to begin in the fall semester. Starting in the spring or summer may result in an extended time to complete the degree.

No more than 12 graduate hours taken as a non-degree student (i.e., one not officially admitted to the psychology graduate program) may be applied to the M.S. in psychology. The chair of the department must approve these graduate hours. All courses must also meet the time limits established by the Graduate Studies office. Upon acceptance into the M.S. in psychology program, the student will be assigned a departmental graduate adviser and will be able to apply for federal financial aid.

Students should be aware that most graduate courses have prerequisites. These prerequisites must be met before enrolling in the courses. In some situations, a prerequisite may be waived with the consent of the course instructor. Each student must pass a writing proficiency exam prior to filing a program of study. A score of 3.5 or higher on the Analytical Writing section of the GRE satisfies the writing proficiency exam requirement. Each student must write and successfully defend masters thesis.

The student may hold an undergraduate degree in any field. There are no course prerequisites in geography or cognate fields, although course work in map interpretation, cartography, and data management would facilitate GIS skills development. Graduate Record Exam scores are not required by the department. The student must be accepted admitted by the Graduate College; he/she must also submit a separate application with undergraduate transcripts directly to the department.

Sem. Hours

E

Sem. Hours

E	ED	AD	A EC	E	.....	28-31
PSY	5010				Thesis Preparation Seminar I	1
PSY	5020				Thesis Preparation Seminar II	1
PSY	5030				Graduate Thesis Process and Mentorship	1
PSY	5140				Biological Bases of Behavior	3
PSY	5150				Ethics and Professional Issues in Psychology	3
PSY	5310				Personality	3
PSY	5340				Social Bases of Behavior	3
PSY	5410				Adult Psychopathology	3
PSY	5520				Advanced Statistics for the Behavioral Sciences	3
PSY	5560				Individual Intelligence Testing	4
PSY	5990				Thesis	3-6
AD	A	E	EC	E	6-9
	AD	A	E	A	37

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By completion of the Geographic Information Systems Graduate Certificate program, students will be:

- Skilled in geographic data collection, spatial data base development, and data manipulation.
- Skilled in spatial data analysis, modeling, output interpretations, and model calibrations.
- Able to read and analyze remotely-sensed images and integrate spatial and aspatial data.
- Skilled in computer mapping and related forms of graphic representation.
- Able to apply advanced theoretical principles and geo-techniques to real world data to solve problems.
- Familiar with new literature.

A successful applicant must have a cumulative undergraduate GPA of 3.0 and course work, which must include one year of chemistry (including organic) and one semester of physics (one semester of chemistry or physics must include a lab), one year of biology (including mammalian or human physiology), one year of math (including statistics), and SAFE 4140 – Safety and Health Lab, or equivalent, or demonstrated experience. The applicant must complete the Graduate Record Exam (GRE) and must submit a three-to-five page essay that demonstrates writing skills, and relates proposed graduate education to professional goals. Application for admission will not be considered by the department prior to the receipt of the GRE score and essay. The department will consider applicants that do not meet all of the above criteria on a case-by-case basis.

Sem Hours

E	ED	AD	A	E	C	E	.....	15
SAFE		5010					Organization, Administration and Supervision of Safety Programs.....	3
SAFE		5120					Principles of Industrial Hygiene	3
SAFE		5430					Occupational Hazard Management	3
SAFE		5940					Current Literature and Research in Safety	3
SAFE		5800					Managing Fire Risk	3
E	EA	C					.....	3-6
SAFE		6930					Individual Research.....	3

SAFE		6950					Thesis.....	6			
DE	A	E	A	ED	AD	A	E	EC	E	.....	12-15
			AD	A	E			52E3	7A	EFF004844	E

											Sem Hours
E	ED	AD	A	E	C	E	.....	35			
SAFE		4150					Noise Measurements	2			
SAFE		4160					Industrial Ventilation for Environmental Safety and Health	3			
SAFE		4425					Safety and Health Legislation and Standards.	3			
SAFE		4435					Environmental Compliance	3			
SAFE		5010					Organization, Administration and Supervision of Safety Programs.....	3			
SAFE		5120					Principles of Industrial Hygiene	3			
SAFE		5130					Industrial Environmental Monitoring	3			
SAFE		5170					Industrial Toxicology	3			
SAFE		5180					Principles of Epidemiology.....	3			
SAFE		5940					Current Literature and Research in Safety	3			
SAFE		6940					Internship in Safety Science	3			
SAFE		6930					Individual Research Problems	3			

SAFE		6950					Thesis	3
			AD	A	E	A	35

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The graduate with a Master of Science degree in Occupational Safety Management will use the knowledge and skills obtained in the programs to:

- Demonstrate the ability to communicate professionally verbally and in writing.
- Demonstrate knowledge of professional integrity and ethical standards.
- Recognize the importance of contemporary, global and societal issues as they relate to the practice of occupational safety and health.
- Develop, coordinate and/or participate on multidisciplinary teams to protect people, property and the environment
- Recognize the importance of life-long learning for the purpose of enhancing discipline specific technical competencies.
- Analyze injury, illness and liability trends to help establish priority direction.
- Organize limited resources for optimum risk control.
- Develop, implement and evaluate hazard control processes for a performance safety program.

This professional degree is offered to prepare students to assist management in the effective use of resources for the development, implementation and assessment of a comprehensive safety and health program in a variety of occupational settings.

To be accepted into this program, an applicant must hold a baccalaureate degree with a grade point average of 2.5. An applicant must submit a three-to-five page essay that demonstrates writing skills and relates proposed graduate degree learning outcomes to professional goals. Application for admission will not be considered by the department prior to submission of the required essay.

A Program of Study/Degree Audit should be submitted to the graduate program adviser as soon as admission procedures are complete. An applicant must have completed a semester of business or industrial management, a semester of behavioral science (i.e. psychology or sociology), one semester of two different college level science classes with laboratory (i.e. chemistry, life science or biology), and a semester of college level algebra and statistics.

- Undergraduate minimum grade point average of 3.0 on a 4.0 scale.
- Has an active registered nurse license.
- Computer or computer access with hardware compatible with UCM's program software. Basic computer skills are required prior to matriculation.
- Completion of a criminal background check.

Selection is based on the applicant's qualifications, intellectual curiosity, potential for professional growth, and contributions to the profession. Exception to any of the admission requirements will be considered on an individual basis.

C **A** Completed applications to the nurse educator concentration will be considered by the Department of Nursing on a space available basis throughout the year. Students applying for

students who have completed all requirements. Diplomas cannot be issued until they are approved by the Academic Council and Board of Governors.

Sem Hours

E	ED	AD	A	EC	E	.....18
NUR	5000				Methods of Research in Nursing	3
NUR	5015				Theories of Nursing	3
NUR	5016				Family/Population Health	3
NUR	5017				Organizational Leadership in Complex Health Systems	3
NUR	5018				Health Care Policy and Advocacy	3
		AD	A	EA	C	.....3
C	CE	A				.....15-26

Students must complete all requirements in one of the following concentration areas

				E	C	
E	ED	AD	A	EC	E	.....15
NUR	5035				Measurement in Nursing	2
NUR	5038				Nurse Educator: Concepts of Physiology/ Pathophysiology, Pharmacology and Health Health Assessment	3
NUR	5039				Nurses Educator: Direct Patient Care Clinical Practica	1
NUR	5040					

- Apply theoretical concepts of Sport Administration and Management in a practical setting.
- Conduct research that contributes to the creation, expansion, and or application of knowledge in the field of Sport Administration and Management.
- Demonstrate an understanding of an area of specialization in the field of Sports Administration and Management.

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- Apply Exercise principles with diverse populations in a variety of situations.
- Demonstrate and apply skills and knowledge of Exercise Science through laboratories, internships, and other appropriate programs.

:

- Advance content and pedagogical knowledge for improved professional practice.
- Enhance instructional effectiveness in Physical Education
- Continue professional development in the field of Physical Education K-12

To be accepted into Exercise Science, a student must have a major in Exercise Science, Physical Education or appropriate exercise science background courses. To be accepted into Pedagogy, a student must have a major in Physical Education K-12. This degree is not appropriate for individuals seeking teaching certification. To be accepted into Sport Management, a student must have a major related to Business Management, Sport Management or appropriate background courses. For all Master of Science in Kinesiology degree programs a minimum undergraduate grade point average of 2.75 or a grade point average of 3.0 on 9 semester hours of earned graduate credit is required.

For graduate applicants who do not meet the 2.75 GPA requirement, additional items will be required:

- Statement of Purpose - statement articulating why the prospective student wants to pursue and advanced degree in our program.
- Reference - Names of references will be requested in order to contact these individuals regarding the potential graduate student's ability to successfully complete the graduate degree.

NOTE: GRE score is recommended for students not meeting GPA requirements.

Application Due Dates: To be considered for admissions into the M.S. in Kinesiology degree program and to ensure available capacity, early submission of application materials is recommended. Priority consideration will be give to students who apply at the beginning of the semester prior to the anticipated admissions term. They will be notified of their admission status via an email. Admission decision will be based upon the merit of the application and the available space in the program for the student.

The student's program must be planned with the advice and consent of a department adviser. The elective hours may not merely be a collection of courses but must be an integrated and related group of advanced courses fulfilling the department's and student's objectives.

Sem Hours

E	ED	AD	A EC	E	.....	12
PE	5740				Legal Aspects for Kinesiology	3
PE	5760				Sport Marketing	3
PE	5770				Sport Finance	3
PE	5780				Organizational Leadership in Athletics and Sport	3
E EA	C	.....				5-12
PE	6980				Internship	2-4

PE 6990 Thesis 6

The following two (2) courses are designed to meet the research requirements of the MS in Kinesiology and are required for Thesis option

students. One (1) of the following two (2) is required for Internship option students.

PE	5210	Statistics in Kinesiology	.....	3
PE	5900	Introduction to Research in Kinesiology	.....	3
E		.....	.....	9-14
PE	5110	Philosophy of Sport	.....	3
PE				

PE	5730	Risk Management for Kinesiology	3
PE	5840	Principles of Motor Learning	3
PE	5950	Assessment in Physical Education	3
PE	5900	Research Methods in Physical Education	3
PE	6190	Trends and Issues in Kinesiology	3
PE	6950	Professional Seminar in Physical Education	3
		AD A E A AD AA A	

Additionally, candidates seeking the Network Security area must have an Electronics Technology degree with an emphasis in Networking OR satisfy one of the following two choices:

1. Bachelor's degree in a related field AND NET 4100 - Network Device Configuration OR Instructor's consent based on experience and skills testing.
2. Bachelor's degree in a non-related field AND NET 4100 - Network Device Configuration AND Instructor's consent based on experience and skills testing.

Sem. Hours

RE Q U E D A D A E C E 15

NET 4500 Managerial Design for Secure Networks . . . 3

NET 4501 Network Security Management I.

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- A 4200 A A (3)** Application of shop principles to the design and construction of farm mechanical projects. Prerequisite: AGRI 1200.
- A 4300 F F (3)** Theory and practice of utilizing agricultural fertilizers to maximize soil productivity. Prerequisite: AGRI 2330.
- A 4310 B (3)** The principles involved in the selection and development of economically important plants. Traditional and modern practices (cell culture and biotechnology) will be discussed. An additional fee is associated with this course. Prerequisites: AGRI 1600 or AGRI 2315 or BIOL 1111.
- A 4320 D (3)** An introduction to plant diseases with emphasis on recognition and control of economically and environmentally important species. An additional fee is associated with this course. Prerequisites: AGRI 1600 or AGRI 1310 or AGRI 2315 or BIOL 1111.
- A 4330 (3)** Principles of soils management as applied to physical improvement and fertility maintenance of soils. Prerequisite: AGRI 2330.
- A 4340 A C (3)** Types of agricultural chemicals and their application in control of insects, parasites, and weeds. Prerequisites: AGRI 2330, AGRI 1310 or AGRI 2315.
- A 4410 (3)** Anatomy, physiology, disease control, parasitic control, and sanitation of farm animals. Prerequisites: AGRI 1420 and CHEM 1104.
- A 4415 F A (3)** Reproductive physiology of farm animals with practice in evaluation of semen, artificial insemination, and methods of pregnancy diagnosis. Prerequisites: AGRI 1420 and AGRI 3410.
- A 4430 A : B (3)** Systems of beef production. Includes breeding, feeding, and management of commercial and purebred beef. Prerequisite: AGRI 1420.
- A 4435 A : (3)** Systems of pork production. Includes breeding, feeding, and management of commercial and purebred swine. Prerequisite: AGRI 1420.
- A 4600 : (3)** Identification, description, climatic adaptation, classification, characteristics, and best landscape use of woody horticultural trees and shrubs.
- A 4605 : (3)** Identification, description, adaptation, classification, cultural characteristics, and best use of herbaceous Horticultural plants. Prerequisites: AGRI 1300, AGRI 1600 and AGRI 1610.
- A 4610 (3)** Selection, identification, establishment and maintenance of turf grasses. Prerequisites: AGRI 1600 and AGRI 2330.
- A 4800 A (1-3)** Individual investigation of a special

- A 4860** (3) Introduction to museum professionalism, including ethical and legal concerns, collections care, exhibition and interpretation, and curatorship. Includes field experience and practicum hours in museum collections.
- A 4870 C C** (3) Compares various aspects of cultures in selected societies and helps students to collect and analyze data on cultural patterns in their own and other societies.
- A - A**
- A 4010 A (1-3)** May be repeated for credit as topics vary. Prerequisites: Instructor consent.
- A 4020** (3) By arrangement, with consent of the instructor involved, and through individual directed study. May be repeated for a maximum of 6 semester hours. Prerequisite: Senior status with instructor consent.
- A 4310 D (2-3)** An elective course for interior design and commercial art majors operated in conjunction with various business firms, wherein students are afforded the opportunity of working alongside professional designers in the field. May be repeated for a maximum of 6 semester hours. Prerequisites: A major on the undergraduate level of either interior design or commercial art and with approval of departmental committee.
- A 4324** (3) Introduces the student to western techniques in hand papermaking: sheet forming and two and three-dimensional paper structures. May be repeated for a maximum of 9 semester hours. Prerequisite: 20 semester hours of art.
- A 4340 C D** (3) Increasing emphasis on space arrangement for commercial and institutional use; introduction to specifications of materials and specification writing; emphasis in office design. May be repeated for a maximum of 6 semester hours. Prerequisites: ART 3330 for art majors, GRAP 3160 or instructor consent for non-majors.
- A 4412 C** (3) Production of advanced ceramics projects with emphasis on the search for individual styles and choices of forming methods. Advanced study of glaze chemistry, clay body formulation, and kiln construction. May be repeated for a maximum of 9 semester hours. Prerequisite: ART 3412 or instructor consent. An additional fee is associated with this course.
- A 4420** (3) A repeatable advanced level studio art course in sculpture that allows students to consolidate and increase their skills and abilities while they build a significant body of sculptural work. May be repeated. Prerequisite: ART 3440. An additional fee is associated with this course.
- A 4511** (3) Application of principles of composition in the medium of oil or acrylic paint. May be repeated for a maximum of 9 semester hours.
- A 4513 : A** (3) Working in the landscape utilizing direct observation to develop advanced painting skills. May be repeated for a maximum of 9 semester hours. Prerequisite: ART 3511 or ART 3513 or ART 3515.
- A 4515 : F** (3) Working from the figure utilizing direct observation to develop advanced painting skills. May be repeated for a maximum of 9 semester hours. Prerequisite: ART 3511 or ART 3513 or ART 3515.
- A 4850 C A A** (3) A history of the visual arts of the world in the twentieth century.
- A 4860 C A D** (3) The exploration of contemporary art and design in a context of art historical style by utilizing specialized information networks which chart and chronicle its development.
- A 5110 D** (3) Drawing in all media from models and from imagination leading to finished drawings. Emphasis on composition. Study of old masters and contemporary drawings. May be repeated for a maximum of 9 semester hours. Prerequisite: ART 3110.
- A 5210 A D** (3) Drawing from the model at rest and in action in all media. Studies in composition and the analysis of the work of the old and modern masters. Special emphasis given to techniques. May be repeated for a maximum of 9 semester hours. Prerequisite: ART 3209. An additional fee is associated with this course.
- A 5410** (3) Stylistic direction involving preliminary cartoons and scale model forms with an evaluation of the work problems in sculpture. Materials will include clay (terra cotta), plaster, wood, metal, and cast metals with special emphasis placed upon originality, finish, and presentation. The student will be encouraged to select his/her own media. May be repeated for a maximum of 9 semester hours. Prerequisite: ART 2420. An additional fee is associated with this course.
- A 5412 C** (3) Encourages the development of stylistic direction and exhibition involvement through the intensive study of student/instructor selected areas of ceramics. May be repeated for a maximum of 9 semester hours. Prerequisite: ART 4412. An additional fee is associated with this course.
- A 5511 A** (3) Pictorial organization and the methods and techniques of painting in oils. Analysis of subject matter, preliminary sketches, and preparation of frames for exhibitions. May be repeated for a maximum of 9 semester hours. Prerequisites: ART 1325 and ART 4511.
- A 5520 A** (3) The methods and techniques of painting in watercolor and gouache. Special attention to subject matter, preliminary sketches, and composition. May be repeated for a maximum of 9 semester hours. Prerequisite: ART 3510. An additional fee is associated with this course.
- A 5710** (3) Advanced study in the specialized areas of printmaking. May be repeated for a maximum of 9 semester hours. Prerequisites: ART 3710, ART 3720, ART 3730 and ART 3740, or instructor consent.
- A - A**
- A 4025** (3: 2 , 1)

A A 4060 A E (2-3) Basic aerospace information dealing with the social, scientific, and technological importance of aviation and space with special applications for teachers who desire to utilize such information in the elementary and secondary school.

A A 4070 A (3) Major events, people, and changing technologies in the development of the present day air transportation system.

A A 4080 (3) Magnetic particle, eddy current, dye penetrant, ultrasonic vibration analysis, acoustics, radiographic, infrared, and liquid crystal methods of nondestructive inspection. Prerequisite: PHYS 1104 or PR&T 1010 or AVIA 1200 (for A&P students).

A A 4090 A (3) Legal foundations and the federal and state regulatory functions which influence aviation and those who work in the industry.

A A 4095 A (3) Aviation issues in international aviation including ICAO regulations and other factors related to the operation of airplanes in a global environment.

A A 4250 F (3) Familiarization with use of flight Management Systems including practice flights in a 737 NG Flight Training Device. Use of airline dispatch release documents for the programming of the training device from preflight to shut down. Additional fee is required. Prerequisites: AVIA 4220

A A 4310 A

B 4403 E (4:3, 1) Physiological responses and adaptations to alterations in natural and man-generated environmental factors such as temperature, light cycles, pressure, water, ions, radiation, vibration, chemicals, microorganisms, and exercise. Prerequisite: BIOL 2402 or BIOL 3431.

B

B A - B

B A 4740 E (3) Current analysis of legal issues in the workplace relating to the employment process. Focus covers a broad spectrum, including Title VII/Equal Employment Opportunity, Fair Labor Standards Act, OSHA, ERISA and labor law. Policy issues involving discrimination, affirmative action and sexual harassment will be covered, as well as applied topics such as the legality of the hiring process. Prerequisite: BLAW 2720.

B A 4750 C B (3) Roles and strategies of labor,

CD 4505 - (3) Types of language and literacy disorders; formal/informal assessment procedures of language and literacy skills; intervention procedures for the remediation of language and literacy disorders. Prerequisites: Admission to the undergraduate program in Speech-Language Pathology or department consent.

CD 4510 C D (2) Focused study of various issues important to multiculturalism and diversity when assessing and treating individuals with communication disorders from diverse backgrounds. Prerequisite: Admission to the undergraduate program in Speech-Language Pathology or department consent.

CD 4512 B E

CD 4000 C D (3) Exploration of emerging issues in the management of crises and in depth examination of special topics impacting on disasters. May be repeated.

CD 4015 C (3) Exploration of catastrophic events, as contrasted with disasters, requiring unique strategies, techniques, and tools to achieve effective response and recovery for the community and nation.

CD 4215 E D (3) Examine man-made, industrial, and technological events that produce environmental disasters. Explore the sociopolitical issues that contribute to environmental disasters.

CD 4715 B C (3) Planning methodologies utilized by business and industry. Risk identification, business impact analysis, and the adoption of alternative recovery methods for critical processes. Prerequisites: CDM 3000 or instructor consent.

CD 4735 C (3) Critical Infrastructure as it relates to the professional practice of business continuity. Business continuity is the ability of an organization to continually operate before, during and after disaster or crises. Business continuity seeks to protect and preserve the essential assets of any organization in the event of a disaster or crisis.

CD 4745 C (3) Systematic study of crisis in business and industry; vulnerability analysis, disaster-resistant companies, crisis communications strategies, employee support services, and public relations. Prerequisites: CDM 3000 or instructor consent.

CFD - C F D

CFD 4220 A (3) Addresses human sexuality across the life span using a life course and cultural contextual perspective. Historical, biological, psychological, environmental, and familial influences will be examined.

CFD 4250 C F D (3) In-depth study of selected issues in child and family development. Prerequisite: Junior status or instructor consent.

CFD 4260 A (3) This course is structured to introduce research approaches to the study of adult development through a cultural contextual exploration of the social, emotional, behavioral and educational processes.

CFD 4510 E C A (3) This course addresses the multiple dimensions of development during early childhood, including the physical, intellectual, social, emotional, and motor development of children. The course is also designed such that students develop an informed philosophy of adult-child relationships.

CFD 4520 A F (3) This course is structured to examine multi-cultural individuals and families within the context of their unique cultural heritage. Special attention is focused on the external conditions that affect the internal workings of families and methods that have been found to be sensitive in addressing the needs of diverse groups.

CFD 4530 (3) This course is structured to provide information in regards to partner selection, to help individuals and couples understand the contexts within which they are embedded so that they can develop systems of support for their relationship, and to present suggestions for nourishing the relationship.

CFD 4560 D (3) This course is structured to introduce research literature on divorce. The changes that occur in family structures over time in the pre-divorce, divorce, and post-divorce process will be examined.

CFD 4570 D A (3) This course is intended to explore theory and research related to death, dying, loss, and grief across the lifespan and the ways that support is provided or lack thereof to bereaved individuals within cultural context. We shall explore individual, familial, religious, cultural, societal, and other human developmental contribution to such understanding and experiences.

CFD 4580 C A (3) This course intends to introduce selected theories and research on situations that place children and adolescents at risk for emotional, behavioral, and academic problems. In addition, research on stress/coping and resilience will be emphasized.

CFD 4590 C A (3) This course will present selected health issues and its implications for the children-adolescents, family and society from a stress and coping perspective. In addition, it is intended to serve as an introductory course to the profession of Child Life.

CFD 4710 (3) Provides experience for students in cooperating business, agencies and organizations. May be repeated for a maximum of 12 semester hours. Prerequisites: CFD 2240 and departmental consent.

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Issues in Childhood SexFF0istr</ActualText<FEFF0049>>> BDC 5IC 5II

C E 4800 F C (3) Introduction to the principles and applications of classical and instrumental methods of chemical analysis in forensic chemistry and forensic toxicology. Prerequisites: CHEM 1131, CHEM 1132, CHEM 3341, and CHEM 3342.

C E 4910 C (1-5)



C 4320 — **(3)** Focuses on the use of theories of persuasion to understand emotional and cognitive responses to messages used to impact interpersonal relationships, small groups, and/or society.

C 4330 **C** **(3)** An in-depth study of selected theories and supporting research findings of the communication process as it occurs in informal face-to-face situations. Prerequisite: COMM 3010.

C 4335 **C** **(3)** Gender as it influences communication processes in intrapersonal, interpersonal, group, public and mediated contexts. Prerequisite: COMM 3000 or instructor consent.

C 4340 C **(3)** Foundations and development of rhetorical theory during the Classical Period with special emphasis given to Plato, Aristotle, Cicero, and Quintilian.

C 4345 **(3)** An examination of significant movements in the development of twentieth century rhetorical theory including the contributions of Kenneth Burke, Richard Weaver, and Marshall McLuhan.

C 4390 C **C** **(3)** Public address as it functions in contemporary society in a variety of traditional and mass media settings.

C 4410 **(3)** Preparation and production of multi-camera programming in a studio environment. Prerequisite: COMM 2412.

C 4415 **(3)** Principles, techniques and formats of narrative screenwriting.

C 4430 **(3)** Analysis of programming principles and practices, schedule development and audience behavior for radio and television stations. Prerequisites: COMM 1200 and COMM 2400.

C 4435 B **(3)** The theories, techniques, and skills of producing a full-length newscast including producing, writing, reporting, performance, ENG, and editing.

C 4470 C **(3)** Production of instructional, training and informational videos for use within corporations and other organizations. Prerequisite: COMM 2412 or instructor consent.

C 4475 **(3)** Technological developments and their uses (existing and potential) as information distribution systems.

C 4490 **C** **(2)** Preparation of a portfolio representing the student's best work; in addition, students will participate in assisting and tutoring students in lower-level courses in the major.

T echnological dev(sting andscourses in thrincain -3)763Tlti-camerrattjOQuark Xp |ssnfsening,pfpardeTDEettingkeup or

C 5900 C (3) Supervised practice of counseling in an approved setting appropriate to the student's program of study. Both individual and group supervision are provided. Prerequisites: COUN 5510, COUN 5610, 5230, 5720, COUN 5810 and advanced status.009/T1 1 escriptio

C 5040 (3) Project in an area of computer science which fulfills a requirement in the graduate degree program. Part of the course requirements might be met by working on company projects approved by the adviser. Prerequisite: Consent of adviser and Computer Science Committee.

C 5110 A A C# E (3)
Advanced application development using the Microsoft .NET framework. Topics include hands-on experience in both server-side programming using a variety of Microsoft .NET technologies such as LINQ, WPF, WCF, ADO.NET and ASP.NET. Prerequisite: CS 3110.

C 5300 A A D (3) Techniques needed to analyze algorithms, greedy algorithms, dynamic programming, advanced data structures, vector and matrix manipulation, sorting networks, number-theoretic algorithms and NP-completeness. Prerequisites: CS 4300 or instructor consent.

C 5310 C (3) Includes finite-state automata, pushdown automata, and Turing machines. The topics of regular expressions, context-free languages, the halting problem, Post's correspondence problem, P, NP, Incompleteness, and some NP-complete problems will be discussed. Prerequisite: MATH 2410 or CS 1400.

C 5430 A (3) Finite difference interpolation, numerical differentiation and integration, numerical solution of nonlinear equations, numerical solution of ordinary differential equations. Computational techniques stressed and extensive quantity of problems to be solved on a digital computer. Prerequisites: CS 1110 and MATH 1152.

C 5500 A (3) An in-depth study of advanced topics in the field of operating systems such as protection and security, distributed system structures, distributed file systems, multiprocessor operating systems, interprocess communication, parallel and concurrent programming. Prerequisites: CS 4500 or instructor consent.

C 5600 A D (3) An in-depth study of modern database management systems (DBMS) and their underlying concepts, emerging technologies and advanced applications. The focus is on understanding the theories and algorithms underlying DBMS and on the practical use of those theories and algorithms. Prerequisites: CS 4600 or instructor consent.

C 5800 A C (3) An in-depth study of advanced topics in the field of computer networking security such as multimedia networking, security programming, mobile computing and network applications programming. Application oriented projects will be required. Prerequisites: CS 4800 and MATH 3311 or equivalent or instructor consent.

C 5900 C D C (3) Compiler concepts including finite-state machines, top-down and bottom-up parsing, and syntax directed translation. The topics of regular grammars, context-free grammars, lexical analysis, LL(k) grammars, LR(k) grammars, Lex and Yacc will be discussed. Prerequisites: CS 3100 or instructor consent.

C 5910 A E (3) An in-depth study of advanced topics in the field of software engineering. Topics include software requirements workflow, object-oriented analysis and design workflow, implementation workflow, testing workflow, postdelivery maintenance, UML, software project management, emerging technology and applications. Prerequisites: CS 4910 or instructor consent.

C 6010 (3) Research in an area of computer science, directed by a graduate faculty member, which leads to the completion of a thesis. Must repeat for 6 credit hours. Prerequisite: Instructor consent.

C A - C

C A 5000 A (1-3) Individual or group study of selected problems/issues within the student affairs administration field. May be repeated for a maximum of 6 semester hours.

C A 5110 A A (3)
Organization and administration of student personnel services in higher education.

C A 5120 A A (3) The application of helping skills models to student affairs settings. Emphasis will be on live practice and application of content to interactions with college students. Prerequisite: Admission to the CSPA program.

C A 5130 E (3) Critical examination of leadership, organizational, and team development theories and their application to higher education contexts through the lens of organizational dynamics and interpersonal relations.

C A 5210 D (3) In-depth exploration of major theoretical models and their application. This is the first of two courses in developmental theory for the College Student Personnel Administration Program. Prerequisite: CSPA 5110 or program coordinator consent.

C A 5220 E (3) History of higher education and student affairs administration in America. Focus on development of policies, practices, and culture of colleges and universities.

C A 5230 C (3) The college student in contemporary society; characteristics, attitudes, values, needs, pressures, and concerns.

C A 5310 D (3) In-depth exploration of major theoretical models and their application. This is the second of two courses in developmental theory for the College Student Personnel Administration Program. Prerequisite: CSPA 5110 or consent of program coordinator.

C A 5320 E (3) Sensitizes students to a variety of legal issues in higher education and creates an awareness of areas within the student personnel field where potential litigation could result.

C A 5330 F E (3)
Introduction to the entities involved in campus governance on a college campus. Focus on the budget process and dilemmas that colleges and universities face. Prerequisite: CSPA 5110 or consent of Program Coordinator.

C A 5410 A E A (3) Assessment and program evaluation models/techniques designed to address college environments, students' needs, developmental levels, and learning outcomes, as well as organization and program effectiveness. Prerequisite: CSPA 5110 or consent of Program Coordinator.

C A 5500 E (3) An overview and critical analysis of issues and concerns common to higher education institutions. Prerequisite: CSPA 5110 or consent of Program Coordinator.

C A 5610 C C (3) History, development, and current concerns of the junior/community college.

C A 5620 E (3) Principles and practices of enrollment management focusing on the core functions of marketing, recruitment, retention, service and enrollment manager role in the college setting. Prerequisite: Admission to CSPA program or instructor consent.

C A 5700 A A (1, 2, 3)
A supervised work experience in college student personnel. May be repeated with no more than 2 semester hours in a single student personnel functional area for a maximum of 8 semester hours. Prerequisite: Instructor consent.

C A 5980 A (1-3) Direct work experience in a student affairs functional area. May be repeated for credit. Three credits are required for graduation from the program. Prerequisite: Instructor consent.

C E - C

E

EC 4060 A (3) Provides game theoretical tools used widely in economics to study situations in which various decision-makers interact. Applications include political science and biology. Prerequisites: ECON 1011 and Math 1111.

EC 4070 (3) An analysis of selected economic problems of current interest dealing primarily with the structure of American industry, with emphasis on the conduct and performance of large firms. Prerequisite: ECON 1011.

EC 4075 A (3) The course will introduce, develop and apply forecasting models to decision making problems. The interpretation and accuracy of forecasting models will also be explored. Prerequisites: ECON 1010, ECON 3030, and FIN 3801.

EC 4080 E (3) Mathematical techniques and problems used in the quantitative approach to economic theory. Prerequisites: ECON 3030, ECON 3010 and FIN 3801.

EC 5005 B (3) Information-gathering, storage, analysis, and communication as it relates to decision-making in today's business environment. Prerequisites: Undergraduate MBA background and admission to the MBA program; must be taken concurrently with CIS 5605.

EDAD - E A

EDAD 5000 (1-5) Individual or group study of selected problems/issues in special areas of interest. May be repeated for a maximum of 5 semester hours.

EDAD 5110 F E A (3) An introductory course in school administration.

EDAD 5120 (3) An introductory class in school law for teachers and administrators with a special emphasis upon Missouri school law.

EDAD 5130 (3) An intensive study of the problems, processes and techniques in the evaluation, supervision, and improvement of the institutional programs at the elementary and secondary levels of the school.

EDAD 5150 E (3) This course provides advanced study in ethical systems of decision-making in educational leadership through philosophic/social theories and case studies.

EDAD 5420 E A (3) The organization, administration and problems relating to elementary school administration.

EDAD 5520 A (3) The organization, administration and problems relating to secondary school administration.

EDAD 5710 F (3) A basic course in theory and practice of public school finance.

EDAD 5720 A (3) This course addresses organizational and educational issues relevant to the administration of the middle (5-9) grades.

EDAD 5730 A (3) The organization and administration of school personnel activities and related problems.

EDAD 5760 C (3) Communication and related problems in education.

EDAD 5770 (3) This course will focus on the leader's role in creating a positive learning climate that maximizes teacher and student performance.

EDAD 6120 A (3) School law for teachers and administrators plus a study of function and structure of courts and legal problems involving school finance, school property, and school board policy. Prerequisite: EDAD 5120.

EDAD 6700 D A (3) The administrative and related functions of the school superintendency. Prerequisite: EDAD 5420 or EDAD 5520.

EDAD 6710 A F (3) An advanced course in school finance and business management. Prerequisite: EDAD 5710.

- EDF 5220 A (3)** Provides the graduate student with a clinical experience in formal and informal literacy assessments for K through 12th grade students. Prerequisites: EDFL 5210; must be taken concurrently with EDFL 5230; UCM graduate students who have an approved program of study or department chair consent.
- EDF 5230 E (3)** Provides the graduate student with a clinical experience in curricular planning for literacy instruction for K through 12th grade students. Prerequisites: EDFL 5210; must be taken concurrently with EDFL 5220; UCM graduate students who have an approved program of study or department chair consent.
- EDF 5240 A A : C C (3)** This course will examine current and seminal theories, research, trends, and perspectives including development approaches; Social Constructivism; transactional and cultural theories and Critical Constructivism.
- EDF 5250 D (3)** This course supports graduates studies in reading education by focusing on the subjects of language acquisition and curriculum development to enhance literacy for all students.
- EDF 5260 E A A (3)** This course examines the capacity and achievement assessment processes implemented in schools and their effects on curricular decisions in literacy education.
- EDF 5300 A A E (3)** Provides instruction in the use and interpretation of standardized testing, the construction of formal and informal classroom assessment tools, and the interpretation of assessment results.
- EDF 5320 C D A (3)** Examines curriculum, its development, and how to assess curriculum and learning.
- EDF 5330 C D (3)** Designed to help teachers advance their knowledge and skills in general classroom management and in helping the apathetic and/or behaviorally troubled student.
- EDF 5340 C : (3)** Foundations of the most recent research on instructional theory and practices.
- EDF 5350 (2)** Designed to meet the practical needs of elementary and secondary teachers who are responsible for the supervision of student teachers.
- EDF 5400 D -12 E (3)** Provides an analysis of differentiated instruction and diverse learners in the K-12 learning environments.
- EDF 5410 A C D A (3)** This course will allow teacher leaders to examine curriculum development and assessment issues from the broader context of the school, district, state, and federal perspective. This course will demonstrate to teacher leaders the importance of a systemic approach to school improvement through curricular alignment and balanced assessment to increase student learning outcomes. Prerequisites: Admission to Graduate Program.
- EDF 5440 C (3)** A course that provides graduate students with integrative and interdisciplinary middle school curriculum development. Prerequisite: EDFL 5130 and a background check on file.
- EDF 5900 (3)** Overview and planning for graduate studies with an introduction and study of the major principles, tools, and techniques employed in educational research, including the development of a research prospectus.
- EDF 6110 C (3)** Designed to synthesize information from MSE course work and classroom experiences. Culminates with a summative portfolio assignment reflecting NBPT Standards. Prerequisite: Students must complete a minimum of 24 hours of MSE program of study prior to enrolling in EDFL 6110.
- EDF 6220 C (3)** Designed to provide the knowledge, skills, and dispositions for literacy coaching.
- EDF 6240 (3)** Examination of the supervisory problems concerned with literacy programs including program planning, program assessment, and effective instruction.
- EDF 6900 E (1-5)** For advanced students in education. Individual study and research regarding problems or areas of particular interest in education. A written report or reports will be required. May be repeated for a maximum of 5 semester hours.
- EDF 6960 (2)** Special investigation of an approved problem in the major field. A prospectus is required. May be repeated for a maximum of 6 semester hours. Prerequisite: EDFL 5900.
- EDF 6990 (3)** Special investigation of an approved problem in classroom teaching resulting in a formal thesis. A prospectus is required. May be repeated for a maximum of 6 semester hours.
- ED - E**
- ED 4000 E (1-5)** Individual or group study of problems in special areas of interest. May be repeated for maximum of 5 semester hours.
- ED 4140 C F E C (3)** A study of the impact of exceptionality on family systems and how empowerment and community resources can strengthen the school-family partnership. Prerequisite: EDSP 2100 or EDSP 5200.
- ED 4150 C D D (2)** Supportive services to students with disabilities within a career development context. Prerequisite: EDSP 2100 or EDSP 5200.
- ED 4310 D D (2)** Basic information pertaining to the characteristics and care of students with severe developmental disabilities. Prerequisite: EDSP 2100 or EDSP 5200.
- ED 4320 E C E (3)** Basic information pertaining to the characteristics, care, treatment, and education of young children with special needs. Prerequisite: EDSP 2100 or EDSP 5200.
- ED 4330 C D D (3)** Teaching methodologies and curricula used in learning programs for students with severe developmental disabilities. Prerequisite: EDSP 2100 or EDSP 5200.
- ED 4350 A A C (3)** Study and application of communication options, including manual sign language and communication devices. Prerequisite: EDSP 2100 or EDSP 5200.
- ED 4360 B (2)** Practical approaches to behavior management for the classroom teacher, special educator, or clinician. Prerequisite: EDSP 2100 or EDSP 5200.
- ED 4361 B (1)** Practical experience in designing behavioral management programs and environments under supervision. Prerequisite: EDSP 2100 or EDSP 5200.
- ED 4370 , D (3)** Case finding, screening, diagnostic and assessment procedures to be utilized in prescriptive educational planning for infants and preschool-aged children. Prerequisite: EDSP 2100 or EDSP 5200.
- ED 4385 C -C E (3)** Information about the characteristics and education of children with mild/moderate disabilities. Prerequisite: EDSP 2100 or EDSP 5200.
- ED 4390 / /C (3)** Definitions, identification procedures, the nature and needs, concepts and issues concerning the gifted, talented, creative child. Prerequisite: EDSP 2100 or EDSP 5200.
- ED 4420 C -C E (3)** Teaching methods, materials and curricula for educating students with mild/moderate disabilities. Prerequisite: EDSP 4385.



E - E

E 4315 E B (3) The Entrepreneurial Business Planning course will prepare participants to design and launch new business ventures, continue family ventures, or engage in small business. This course develops the ability to identify new product

- F - F**
- F 4803** (3) Study of importance of risk in personal matters and various methods of treating risk. Includes property/liability insurance, life/health insurance, and insurance regulation. Prerequisites: FIN 3850 and admission to the B.S.B.A program or graduate status, or a declared major in Actuarial Science and Mathematics with completion of MATH 4510.
- F 4804 E B** (3) A planning perspective is developed for major employee benefit arrangements, retirement plan provisions, pension design, tax implications and suitability for different businesses.
- F 4805 A F** (3) Develops ability to synthesize financial planning knowledge in order to analyze complex client case scenarios. Emphasis on characteristics of the financial planning profession. Prerequisites: ACCT 3130, FIN 3891, FIN 4803, and FIN 4804; or FIN 4803, FIN 4804, FIN 5840, and admission to the MA in Accountancy program.
- F 4815 A** (3) Application of security analysis and investment decision concepts to case problems and computer simulated investment situations. Additional readings in selected portfolio management theories. Prerequisites: FIN 3891 and admission to the B.S.B.A program or graduate status.
- F 4817 F D** (3) Applied analysis of pricing and hedging techniques for managing investments in derivative contracts (forward, futures, options, and swap contracts) involving the application of concepts and strategies to case problems and computer simulations. Prerequisites: FIN 3850 and admission to the B.S.B.A program or graduate status, or a declared major in Actuarial Science and Mathematics with completion of MATH 4510.
- F 4820 F** (3) An intensified study of international banking and finance as it relates to international trade and the multinational corporation and the financing of imports and exports. Prerequisites: FIN 3850 and admission to the B.S.B.A program or graduate status.
- F 4830 D F** (3) Intensive study of significant financial topics.
- F 4880 B** (3) Study and analysis of the problems of management of commercial banks with an emphasis on investment and loan portfolios. Prerequisites: FIN 3881 or FIN 5830; and admission to the B.S.B.A program or graduate status.
- F 5800 F** (3) Topics covered will include capital expenditures, capital structure, cost of capital, dividends, mergers, concept of income maintenance, and, working capital. Cases in managerial finance and individual readings will supplement textbook learning. Prerequisites: FIN 2801.
- F 5805 C F** (3) Advanced managerial accounting and finance topics necessary to compete in a global market place. Prerequisites: Undergraduate MBA background and admission to MBA program; must be taken concurrently with ACCT 5105.
- F 5820 F** (3) The financial problems of profit seeking corporations are examined. Consideration of such matters as operations, obtaining capital, and reorganization. Prerequisite: 6 semester hours credit in finance.
- F 5830 A F** (3) In-depth study of managing risk and return in contemporary financial institutions with special emphasis on methods and markets through which these risks are managed. Prerequisites: FIN 3801 and either FIN 3850 or FIN 5800.
- F 5840 A** (3) Theoretical and applied analysis of securities and derivatives, and valuation, construction and risk hedging of portfolios. Involves use of computer software, supplemental readings, and cases. Prerequisites: FIN 3801 and either FIN 3850 or FIN 5800.
- F 6860 F** (1-3) Selected readings in finance; e.g., financial management, commercial banking, investment banking, or investment. May be repeated for a maximum of 6 semester hours. Prerequisite: Six semester hours credit in finance.
- F D 4326 E F** (3) An experimental approach to the study of factors which influence the behavior of foods. Group and individual experiments. Prerequisite: Food 2322 or equivalent.
- E -**
- E 4201 C** (3) Techniques and tools of map construction including gathering, manipulation, and representation of geographic data. Emphasis on thematic mapping and maps as communication. Traditional and electronic technologies stressed. Prerequisite: GEOG 2212 or EASC 1004 or instructor consent.
- E 4205 A C** (3) Implementation of mapping software, map design, problems and opportunities associated with computer mapping. Content includes obtaining data in a computer context (e.g., Cyberspace). Prerequisite: GEOG 4201 or equivalent or instructor consent.
- E 4210** (3) Use of electromagnetic spectrum to obtain information on our environment. Emphasis includes visible spectrum (air photography), thermography, radar, and satellite imagery. Prerequisite: GEOG 2212 or EASC 1004 or instructor consent.
- E 4220** (3) Automated procedures for storage, analysis, and display of spatial information. Data bases, procurement of spatial information, data manipulation and display techniques, software systems and management issues.
- E 4221 ()** (3) Advanced aspects of spatial analysis and modeling techniques utilizing polygon overlay, network analysis, grid and surface modeling, and programming. Emphasis on research and planning applications. Prerequisite: GEOG 4220 or instructor consent.
- E 4230 A** (3) A systematic and regional approach to the several Asian landscapes. Emphasis is on physical geography and cultural regions.
- E 4235 F** (3) A regional geography of the F.S.U. The relationship of rigorous physical environment to national problems.
- E 4240** (3) A description and analysis of the systematic and regional geography of Missouri.
- E 4251** (1-6) Study, interpretation, and discussion of special topics and problems in geography. May be repeated for a maximum of 6 semester hours.
- E 4252 (1-6)** Practical professional experience in an employing agency coupled with related assignments intended to integrate theory and practice and build college-level knowledge and skills. Prerequisite: Instructor consent.
- E 4260** (3) Relationship of changing geography to physical environment and developing technology in the United States.
- E 4265** (3) Location of cities as related to other geographic phenomena. Urban units are analyzed with respect to general location theory.
- E 4270** (3) The historical development of the political organization of area. Theoretical aspects of political geography are emphasized.
- E 4275** (1-3) Directed individual or group research of predetermined problems in geography for more intensive study. May be repeated for a maximum of 3 semester hours.



4309 A -A A (3) Economic, political, and social development of the African-American in the United States.

4310 A (3) Women in America from colonial

4462 C **(3)** The origins, development, and transformation of Japanese civilization from ancient to modern times, emphasizing the unique qualities of Japanese history and culture and the role of Japanese leadership in modern East Asia.

D 4260 D (3) Various types and styles of supervisory leadership in the industrial setting. Emphasis is placed on human relations aspects of leadership in the line and staff organizational structure.

D 4280 (3) Statistical methods designed for industrial and applied research. Some of the quantitative methods used for solving industrial problems, including measurement system analysis, statistical process control, probability distribution, testing hypotheses, multiple regression analysis, design of experiment, and nonparametric statistics commonly used in industry. Prerequisite: MATH 1111 or instructor consent.

D 5015 A (3) Identify, discuss, and research legal issues affecting industry as related to corporate planning, decision

5500 C D (3) Designed to synthesize information from educational technology coursework and experiences. Culminates with the creation of coursework in an online setting. Prerequisite: INST 5100

6500 C (3) Production of an online course in the field of educational technology. May be repeated for a maximum of 6 semester hours. Prerequisite: INST 5500 or instructor consent.

6920 A (2) Practical experience in appropriate areas of instructional technology. May be repeated for a maximum of 6 semester hours. Prerequisite: INST 4920.

6930 E (3) Practical experience in the use, management, evaluation, and application of technology resources to support instruction in classroom settings. Prerequisite: Instructor consent.

6950 E (3) A seminar designed to address various current topics in educational technology. May be repeated for a maximum of 6 semester hours.

6960 (3) Special investigation of an approved problem in the major field resulting in a research paper. May be repeated for a maximum of 6 semester hours. Prerequisite: CTE 5130, EDFL 5900 or LIS 5910.

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4000 A (1-18) This course allows students to enroll at the University of Central Missouri while attending classes in a sponsored study abroad program. The variable credits are based on the number of credit hours the student plans to complete at the foreign institution. The actual credit recorded represents those credits completed by the student and transferred back to UCM. May be repeated for a total of 18 hours of graduate credit, but the academic department graduate adviser will determine how many hours may directly apply toward the graduate degree. Prerequisite: Approval of the Director of the International center.

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4000 (1-5) Individual or group study of problems in special areas of interest. May be repeated for a maximum of 5 semester hours.

4300 (3) An examination and evaluation of the structure and function of the Internet and its use as a tool for communication, collaboration, and commerce.

4320 C -B (3) An in-depth examination and evaluation of theoretical and practical principles, along with the development of skills necessary to create and provide resources on the Internet.

5000 (1-5) Directed individual study to address current issues in and/or special interests of the student. May be repeated for a maximum of 5 semester hours.

5100 F (2) Introduces the student to the development of the library as an institution and to the role of the library and the librarian in today's society.

5230 B (3) The development of books and libraries from the ancient world to the present and the effects of printed information on communication and cultural development in societies.

5240 A (3) Principles of organization and administration of the library and media center and its relationship to its many publics.

5250 D C (3) Critical analysis of selection tools in developing a comprehensive media collection with emphasis on selection for small- to medium-sized libraries and media centers.

5260 (3) Investigation, manipulation, and evaluation of current technologies that affect the production, storage, dissemination, retrieval, and use of information.

5270 (3) Principles and practices of organizing information and creating bibliographic records including MARC formats.

5322 (3) The selection, evaluation and use of traditional and electronic reference sources for school library media centers.

5340 C , A , & A (3) An examination and evaluation of books and non-book materials with emphasis on informational materials.

5660 (2) Explores government information resources and how to locate retrieve and use them.

5750 (3) This course provides practical experience with information databases and other Internet resources available in K-12 settings, focusing on how, when and why to use them.

5770 C C (3) The integration of information literacy. BDC (TOes (nciplence s-1 .ActualText@a)TjEMj/T10 1 a ane.ysocieties

MATH 5910 Special Projects in Statistics (1-3) Individual reading and presentation of topics not included in the regular offerings of the department. May be repeated up to 3 times for a maximum of 9 semester hours. Prerequisites: 2 of the following courses: MATH 4312, MATH 4322, MATH 4323, and MATH 4530.

MATH 5920 Seminar in Mathematics (1-3) For presentation of those topics in mathematics not included in the regular offerings of the department. May be repeated for a maximum of 3 semester hours. Prerequisite: Consent of actuarial science/statistics committee and graduate adviser.

MATH 6912 Readings in Mathematics (1-5) Selected readings in mathematics designed to deepen and

5325 C (3) Communication in managerial situations, including ethics, oral presentations, written messages and reports, communication audits, group dynamics and organizational communication. Prerequisite: Admission to MBA program.

5340 B C (3) Learners apply the skills they have developed in the program to a variety of business situations in order to foster their leadership and fellowship skills. Learners identify personal values and their impact on ethical choices and on every aspect of corporate culture and strategy. Learners demonstrate leadership competence through workshops, case analyses, company-based projects, and experiential assessments. Prerequisites: ACCT 5105, FIN 5805, and MGT 5370.

5350 (1-3) Individual work under supervision of a staff member. Problems may be undertaken in any phase of business. Prerequisite: Adequate preparation in the area to be studied.

5360 A (3) Investigation of innovation, how it is developed and sustained to create a strategic advantage. By looking at their own organizations, students will find innovative ways to serve their clients/customers and differentiate themselves from their competition. This course will focus on business model and process innovation, as well as new products, services and innovation transfer. Prerequisites: Three years professional work experience (thus approval by the Management and Business Communication Department Chair is necessary) and admission to the MBA program.

5370 C A (6) In the information age, it is no longer sufficient to simply possess information. A leader who knows how to analyze and synthesize information and how to develop actionable intelligence from it will find the greatest success in business and beyond. Students will learn major sources of strategic business data and effective research techniques for mining these sources. They will also have hands-on experience with emerging data tools and develop a better understanding of customer needs and the ethics of using data. This knowledge will then be applied to strategic planning and corporate performance management. Emphasis on improving the enterprise through a variety of management consulting methods. Prerequisites: MGT 5360.

5390 B (3, 6) Opportunity for students to gain theoretical knowledge and practical application in the student's field of specialization. Employment must be above entry level for graduate credit and must be approved by the HCBA Coordinator of Graduate Programs. May be repeated for a maximum of 6 semester hours. Prerequisite: Overall graduate GPA 3.0.

6300 BA A E (BA A E) (1-3) This course is designed to provide students with opportunities to apply what they have learned in the MBA program to "real world" problems. Students engage in "experiential learning" via an approved project conducted at their place of employment or work on a project of their own. Each student

4010

5607 (1.5) Secondary private lesson study in voice. May be repeated. Prerequisite: Initial enrollment by consent of applied area faculty.

5610 (1.5) Advanced study in applied music. Technical exercises and music literature adjusted to the needs of the individual. May be repeated. Prerequisite: Approval by audition.

5707 (1.5) Secondary private lesson study in any string instrument listed in this catalog. May be repeated. Prerequisite: Initial enrollment by consent of applied area faculty.

5710 (1.5) Advanced study in applied music. Technical exercises and music literature adjusted to the needs of the individual. May be repeated. Prerequisite: Approval by audition.

5715 (1.5) Advanced study in applied music. Technical exercises and music literature adjusted to the needs of the individual. May be repeated. Prerequisite: Approval by audition.

5720 C (1.5) Advanced study in applied music. Technical exercises and music literature adjusted to the needs of the individual. May be repeated. Prerequisite: Approval by audition.

5725 B (1.5) Advanced study in applied music. Technical exercises and music literature adjusted to the needs of the individual. May be repeated. Prerequisite: Approval by audition.

5807 (1.5) Secondary private lesson study in any woodwind instrument listed in this catalog. May be repeated. Prerequisite: Initial enrollment by consent of applied area faculty.

5810 F (1.5) Advanced study in applied music. Technical exercises and music literature adjusted to the needs of the individual. May be repeated. Prerequisite: Approval by audition.

5815 C (1.5) Advanced study in applied music. Technical exercises and music literature adjusted to the needs of the individual. May be repeated. Prerequisite: approval by audition.

5820 (1.5) Advanced study in applied music. Technical exercises and music literature adjusted to the needs of the individual. May be repeated. Prerequisite: Approval by audition.

5825 (1.5) Advanced study in applied music. Technical exercises and music literature adjusted to the needs of the individual. May be repeated. Prerequisite: Approval by audition.

5830 B (1.5) Advanced study in applied music. Technical exercises and music literature adjusted to the needs of the individual. May be repeated. Prerequisite: Approval by audition.

5907 B (1.5) Secondary private lesson study in any brass instrument listed in this catalog or in percussion. May be repeated. Prerequisite: Initial enrollment by consent of applied area faculty.

5910 (1.5) Advanced study in applied music. Technical exercises and music literature adjusted to the needs of the individual. May be repeated. Prerequisite: Approval by audition.

5915 F (1.5) Advanced study in applied music. Technical exercises and music literature adjusted to the needs of the individual. May be repeated. Prerequisite: Approval by audition.

5920 (1.5) Advanced study in applied music. Technical exercises and music literature adjusted to the needs of the individual. May be repeated. Prerequisite: Approval by audition.

5925 B (1.5) Advanced study in applied music. Technical exercises and music literature adjusted to the needs of the individual. May be repeated. Prerequisite: Approval by audition.

5930 (1.5) Advanced study in applied music. Technical exercises and music literature adjusted to the needs of the individual. May be repeated. Prerequisite: Approval by audition.

5960 (1.5) Advanced study in applied music. Technical exercises and music literature adjusted to the needs of the individual. May be repeated. Prerequisite: Approval by audition.

E -

E 4000 (1-3) Investigation of contemporary problems and issues in networking. May be repeated for a maximum of 6 hours.

E 4014 A (1-4) Individual/Group work on recent developments and advanced technical concepts in networking. Experimentation and technical exploration of content not available through formal course offerings. Written contract/proposal with objectives and written department consent. May be repeated for a maximum of 6 hours.

E 4040 F (3) Installing, configuring, and troubleshooting network devices. Prerequisite: E 4000. May be repeated for a maximum of 6 hours.

4060

F C

(3) This course is designed to assist teachers and nurses in understanding and planning instruction/interventions for students with severe chronic medical and/or physical conditions. Prerequisite: EDSP 2100 or instructor consent.

4405 A

(2) Seminar concerning an

individual's aging in our society. Focus is on how one perceives and adapts to the aging of self and others. Open to nursing and non-nursing majors.

5000

(3) Generating research

questions, conducting and critiquing nursing research are explored.

5015

(3) Theory, theory development,

application of theory in nursing practice settings and theory critique are explored. Prerequisite: Admission to the graduate nursing program or instructor consent.

5016 F /

(3) Theories and research findings

are analyzed in determining the scientific and practice base of rural and family nursing. Prerequisite: Admission to the graduate nursing program.

5017

C

(3)

Through exploration of information systems and technologies, the graduate nurse will have skills and leadership to improve quality, enhance patient safety, and impact health in individuals, groups, and populations.

5018

C

A

(3) Analysis of health care

system policy and advocacy techniques, and their effect on healthcare delivery outcomes.

5020

A

(3) Clinical

application of pharmacological treatments commonly encountered by the advanced practice nurse. Explores the advanced practice nurse role in prescribing, administering and monitoring drug therapy.

5035

(2) An overview of the measurement

process in nursing science with emphasis on national/state and teacher/researcher data collection instruments.

5038

E

: C

/

A

A

(3) INtegrates concepts and

principles of pathophysiology, pharmacology, and advanced health assessment.

5039

E

: D

C

C

(1)

Clinical application of the engagement of the patient and their family as the source of control and full partner in health care.

5040

(3) Analysis of the engagement of the patient and their family as

the source of control and full partner in health care.

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E 4760 E C (2) Problems involved in

4312 E (3) Electric and magnetic fields scalar and vector potentials; conductors and dielectrics; Coulomb's law, Ampere's law, Gauss' law; Laplace's equation; Maxwell's equations. Prerequisites: PHYS 2122 and MATH 2153.

4411 (3) Properties of gases, kinetic theory of gases; laws of thermodynamics; entropy and introduction to statistical thermodynamics. Prerequisites: PHYS 2122 and MATH 2153 or concurrently.

4512 (3) Experimental basis; fundamental postulates; Schrödinger wave equation; superposition of states; calculation of energy, position, momentum; hydrogen atom; identical particles; perturbation theory. Prerequisites: PHYS 3511 and MATH 2153.

4513 (3) Crystal structure and diffraction; thermal, electrical, and magnetic properties; band theory of solids; Brillouin zones. Prerequisites: PHYS 3512; PHYS 3080 concurrently.

4711 A (3) Designed to use introductory quantum concepts and techniques as applied to the analysis of atoms and nuclei. Prerequisite: PHYS 3512.

4310 (3) Major theories of personality, past and present. Prerequisite: PSY 1100.

4320 (2) An overview of the theories of personality as applied to women, biological determinants of feminine behavior, the dynamics of sex-role development, and the psychological implications of traditional versus modern roles for women.

4330 (3) This knowledge-based course is an introduction to cultural and minority status issues in psychology and the role of multicultural issues in mainstream research.

4440 A (3) A descriptive course dealing with the etiology, diagnosis, and treatment of mental disorders of functional and organic origin. Prerequisite: PSY 1100.

4500 (3) An introduction to the basic psychometric theory, concepts, and procedures; familiarization with the major instruments in the field. Course includes scheduled laboratory. Prerequisites: PSY 2110 and junior status or instructor consent.

4520 B (3) Basic statistical methods. The techniques used to analyze frequency distributions, correlations, and tests of significance. Course includes scheduled laboratory. May not be taken for graduate credit by students in the MS in Psychology program.

4600 (3) Psychological principles and methods applied to industrial and organizational settings, with emphasis on research design, workplace procedures, and statistical techniques. Professional development activities. Prerequisite: PSY 1100.

4730 C -B (3) Description of contemporary cognitive and behavioral treatment procedures for children and adults. Prerequisites: PSY 2130.

4740 A (3) History and philosophy of penology, theories of criminal personality, and rehabilitation procedures; course will include theory and practical work experience. Prerequisite: PSY 4701, or CJ 1000 or SOC 3890.

5000 (1-3) Individual or group study of problems in special areas of need or interest. May be repeated for a maximum of 3 semester hours. Prerequisite: Department consent.

5010 (1) Introduction to the process and requirements for completing a thesis in the Psychology department. Prerequisite: Admission to the MS in Psychology program.

5020 (1) Develop skills needed to complete a thesis in the Psychology Department, focusing on preparing a thesis prospectus. Prerequisite: PSY 5010.

5030 (1) Develop mentor relationships with psychology faculty and explore strategies for thesis completion in order to facilitate a successful thesis process. Prerequisite: PSY 5010.

5130 (3) Description and analysis of contemporary theories of learning and behavior. Prerequisites: PSY 2130 and PSY 2120 or equivalent.

5140 B B B (3) Survey of recent research in fields of biology, physiology, pharmacology, and medicine that influences the psychological aspects of human behavior. Prerequisite: PSY 3130.

5150 E (3) Introduces the student to ethical issues in psychology. Explores dilemmas and professional issues in practice, and ethical concerns in research, education/training, consultation, and supervision. Prerequisite: Instructor consent.

5220 A C (3) Development of the child with emphasis on the scientific viewpoint and theoretical conceptualization of child behavior. Prerequisite: EDCL 2240 or PSY 2220.

5310 (3) Addresses contemporary theory and research in personality, while considering how personality concepts can be applied to human behavior. Prerequisites: PSY 4310 and full admission to psychology graduate program or instructor consent.

5340 B B (3) Includes contemporary theory and research in several areas of social psychology (e.g., social cognition, social influence, aggression, social exchange and systems theory). Application to clinical settings is of special interest. Prerequisite: 15 semester hours of psychology or instructor consent.

5410 A (3) Discusses etiology, course, and treatment of psychiatric and neurological disorders. Includes the language modern psychodiagnosis. Phenomenologic principles, mental status examination, and DSM-IVTR are covered. Prerequisite: PSY 4440.

5420 B (3) Discuss bio-behavioral aspects of health-related conditions and the application of principles of behavior used in the prevention, treatment, and rehabilitation of biomedical disorders. Prerequisite: PSY 5130.

5460 (3) Designed to provide the student with an academic background from which to understand the dimensions, systems, and methods. Prerequisites: PSY 5310 and admission to the MS in Psychology program or instructor consent.

5520 A B (3) Inferential statistics, probability, and tests of the significance of difference will be introduced. Prerequisite: PSY 4520 or PSY 2120.

5530 A (3) Making tentative diagnoses based on case histories, interviews, behavior observations and test data, including selecting, administering, scoring, and interpreting tests. Prerequisites: PSY 5310, PSY 5520, and Admission to the MS in Psychology program or instructor consent.

5560 (4: 3, 1) Administration, scoring, and interpretation of major individual intelligence scales. Students may rent kits and purchase protocols from the department. Students must provide their own examinees. Prerequisite: Instructor consent.

5570 B A (3) Conceptual and philosophical foundations of behavioral assessment, reliability and validity, targeting, observational recording procedures, and self-report measures are presented. Multibehavior-multimethod procedures are addressed. Prerequisite: PSY 2130 or equivalent.

5580 C (3) An introduction to adult clinical neuropsychology that includes history, techniques, practical applications, neurobehavioral anatomy, neuropathology, syndrome identification and training, credentialing, and forensic practice issues. Prerequisite: PSY 5560.

5970 (3) Supervised practice in psychological testing, personality assessment and treatment. May be repeated for a maximum of 6 semester hours. Prerequisite: PSY 5330 and department chair consent.

5990 (3) Special investigation of an approved problem in the area of psychology resulting in a formal thesis. A prospectus is required. May be repeated for a maximum of 6 semester hours. Prerequisite: PSY 5520.

E -

E 4410 (3) Selected contemporary international works of influential writers. Topics may include peace and justice, feminist criticism, minority issues, globalization, nationalistic religions, and sports as a religion. Prerequisite: One course in religious studies.

E 4520 (3) A survey of historic and recent legal issues dealing with the relationship between religion (church) and the state. Prerequisite: One course in Religious Studies or Director consent.

E 4900 : (3) Study of special topics in religions and work. May be repeated.

AFE -

AFE 4000 E (3) An introduction into the role and application of ergonomics in a comprehensive safety program. Prerequisite: SAFE 3000 or equivalent or graduate status.

AFE 4010 A (3) Fundamentals and techniques of investigating accidents. Prerequisite: SAFE 3000 or SAFE 3120 or graduate status.

AFE 4015 , **C** (3) Provides school personnel with current information addressing school safety and security needs, including an analysis of threat identification, violence prevention, safety plans, and crisis response.

AFE 4020 A (3) An investigation of the legal problems confronting the safety and health specialist. Prerequisite: SAFE 3000 or graduate status.

AFE 4035 (3) Examination of theory and practices of safety and health management. Includes planning programs, contemporary safety and health management practices, and programmatic impact of organizational theory.

AFE 4140 (3) A lab course using instrumentation commonly used in the evaluation of the workroom environment and equipment for safety. Prerequisites: SAFE 3120 and SAFE 3430, or equivalent or graduate status.

AFE 4150 (2) Physics of sound, measurement and control of noise. Laboratory required. Prerequisites: One year of college physics or equivalent.

AFE 4160 **E**
(3) Industrial ventilation systems designed to control health and safety

AFE 5125 A (3) This course surveys the roles and responsibilities of the industrial hygienist; the application of industrial hygiene methods to the recognition, anticipation, evaluation, and control of health and safety hazards arising in or from the workplace.

AFE 5130 E (3) Fundamentals of sample collection, precision and reliability of measurements, and methods for detecting and measuring trace contaminants in air and water.

AFE 5170 (3) Chemical composition of cells, chemical processes of life, and the effects thereon of selected corrosive and toxic substances. Prerequisite: CHEM 1604 or equivalent.

AFE 5180 E (3) Introduction to the nature and scope of epidemiology. Principles and application of epidemiological methods in the investigation of environmental hazards.

AFE 5220 (3) Safety and management considerations specific to the five modes of transportation: water, rail, motor vehicle, air, and pipe. Development and importance of each mode; intermodalism.

AFE 5230 (3) The process of preparing a traffic safety program plan, arranging for its implementation and monitoring the program administration of identified countermeasures.

AFE 5430 (3) The examination of the management of hazards in the industrial environment. Industry standards affecting the management of hazards will be reviewed.

AFE 5450 (3) Comprehensive study of sustainability, green jobs, and safety.

AFE 5530 C (3) Development, management and evaluation of a comprehensive loss control program for business, industry, and government.

AFE 5710 (3) The security of humans from primitive to modern times.

AFE 5740 C (3) Security applications in commerce and institutions.

AFE 5760 C (3) Examination of state and federal statutes, ordinances as they relate to the field of security.

AFE 5800 F (3) An integration of decision analysis and quantitative risk assessment with a defined step approach for quantifying the performance success of fire protection systems.

AFE 5940 C (3) Current research in the area of safety, research techniques and design in proposal and other technical writing.

AFE 5950 (1-6) Readings in the student's field of interest or in related areas designed to enhance knowledge and/or skills. May be repeated for a maximum of 6 semester hours. Prerequisite: 9 semester hours of graduate credit.

AFE 6920 (1) A seminar designed to investigate a broad spectrum of current problems and innovations in the field of safety. Consideration of criteria for the identification of problems and a critical analysis of present practices toward improving the quality and management of safety programs. May be repeated for a maximum of 2 semester hours.

AFE 6930 (3) Independent study and investigation of a pertinent problem confronting the safety science and technology professional that will culminate in a research paper. Prerequisite: SAFE 5940 or equivalent.

AFE 6940 (1-6) Internships are based on student needs and educational goals. Actual work experiences in education, government, industry or business are provided. May be repeated for a maximum of 6 semester hours for each degree program. Prerequisite: Department consent.

AFE 6950 (3) An extensive investigation into a selected problem on an original research topic, culminating in a thesis. May be repeated for a maximum of 6 semester hours for each degree program. Prerequisite: SAFE 5940 or equivalent.

C -

C 4805 E (3) Examination of the social debates around the environmental including wilderness, natural resource use, agriculture, recreation, environmentalism, and green production and consumption.

C 4815 (1-6) Study, interpretation, and discussion of special topics and problems in Sociology. May be repeated for a maximum of 6 semester hours.

C 4835 A (3) Examination of population trends including fertility, mortality, and migration and theories about population growth, aging, and urbanization. Students will conduct hands-on statistical analysis. Prerequisite: SOC 2805 or graduate standing.

C 4846 C (3) Views and methods of dealing with criminals and juvenile delinquents; types of correctional systems and prevention programs. Prerequisite: Six semester hours of Sociology, graduate status, or instructor consent.

C 4850 (3) Inquiry into modern society and its cultures, institutions, elites and classes as they are affected by work dynamics in the industrial and corporate arenas.

C 4860 (3) Assessment of current sociological thought as it is reflected by outstanding scholars in the field. Prerequisites: SOC 2845 or SOC 2850 and 3 additional semester hours of sociology.

C 4855 (3) Explores impact of gender stratification and roles on the attitudes and behavior of women and men, gender and social institutions, theories of gender, and sexuality. Prerequisite: Six semester hours of Sociology, graduate status, or instructor consent.

C 4875 (3) Social factors and institutional settings for physical and mental health care; public needs and medical services; research in medical Sociology.

C 4880 (3) The development of legal institutions; law as a system of social control; law and social change. Prerequisite: 6 semester hours of Sociology, graduate status, or instructor consent.

C 4885 (3) The structure and function of religion in society; social sources of religions; religion and the individual.

C 4890 (3) Major concepts in social survey research design, measurement, sampling, and data collection techniques. Quantitative analysis of survey data and micro-computer applications. Only offered Fall semester. Prerequisite: SOC 2805, graduate status, or instructor consent.

C 4894 A (3) Seminar examining the process of aging in relation to demographic, economic, psychological and sociologic implications with an emphasis on sociological principles and perspectives. Prerequisite: Junior, senior, or graduate status.

C 5800 C (3) Experiences of relative "outsider-ness" lived by "strangers," "exiles," "immigrants," "refugees," "ethnic minorities," the "homeless," and so on, are among the most sociologically intriguing experiences of our

Religion (3)
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- C 5810** (3) Advanced, applied course in qualitative research methods focusing on interpretive data collection strategies and analysis.
- C 5815 E** (3) Applied course in social research procedures for assessment of conceptualization and design, implementation, and utility of social intervention programs.
- C 5820** A A (3) Survey of major issues including the long-term care continuum, regulations, state boards and LNHA licensure, care models, basic health care law, and Human Resources in health care.
- C 5840** (3) Seminar focusing on the application of concepts, theory and research to solve real-life questions and problems and improve the outcomes of individuals, communities, families, organizations, and other social entities. Professional practitioners employ a variety of analytical and methodological tools to engage the dynamic processes of social research. The goal of this course is to professionally socialize graduate students into the practice of sociology and social gerontology, and help them gain a broad understanding of the knowledge and skills required of the professional practitioner. Students demonstrate their ability to apply theory to practice through classroom discussion, course and community engagement, clinical/community and environmental field projects, and the completion and presentation of a comprehensive applied project. Prerequisite: Graduate standing or permission of the Graduate Program Coordinator.
- C 5845** (1-3) Directed readings in social gerontology. May be repeated for a maximum of 6 semester hours. Prerequisite: Social Gerontology coordinator consent.
- C 5855** (3) The course will examine the diverse controversies as it relates to issues such as social security, welfare, education, health care, women's reproductive health. The course will explore the policy process from emergence to institutionalization and the passage across space and time. The importance of cross-national, comparative and institutional analysis will be emphasized. The course also gives primary attention to sociological approaches to organizations. It will examine the development of sociological thought about the origins and modern analysis of organizations. An attempt would be made to recognize and take into account the contribution of other social sciences and management theory in our analysis of organizations. Prerequisite: Six semester hours of Sociology, graduate status, or instructor consent.
- C 5860 A** (3) Selected topics of contemporary interest in Sociology; variable content. May be repeated for a maximum of 6 semester hours.
- C 5870** , C , (3) Exploration of the dynamics related to gender, race/ethnicity, class, and sexuality. Focus on those topics and the intersections between the various identities/statuses, particularly in families. Prerequisite: Graduate standing.
- C 5880** (3) Explores major debates in contemporary sociological theory including modernity/postmodernity, power, structure/agency and the cultural turn.
- C 5885 D** (3) Directed readings in Sociology.
- C 6880** (6) Supervised practical application of skills under the direction of the department and a supervising agency. Prerequisite: 18 hours of graduate Sociology credit must include three credit hours of research methods.
- C 6890** (6) Research leading to the completion of a thesis. Prerequisite: 18 hours of graduate Sociology credit must include three credit hours of research methods.
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- 4000** (1-3) Investigation of contemporary problems and issues in technology by selected individuals or groups. May be repeated for a maximum of 6 semester hours.
- 4570 C** (3) Computer-generated presentation graphics utilizing a variety of software programs on numerous hardware configurations. Experiences will include production of laser prints, ink-jet prints, transparencies, color slides, and plots.
- 5000** (2-6) Meets individual student needs for additional research and/or laboratory experiences in the development of technical knowledge and skills in the areas of manufacturing and construction. May be repeated for a maximum of 6 semester hours.
- 5010 A** (3) Research investigation of a technical problem. The course will culminate in a research report. May be repeated to a maximum of 6 semester hours per degree program.
- 5022** A (1-6) Provides experience for students in cooperating industries. Students rotate assignment. Written reports are required. May be repeated for a maximum of 6 semester hours. Prerequisites: Graduate adviser consent and Technology Internship coordinator consent; graduate GPA 3.0 or above; minimum of one semester graduate work completed.
- 5290** (3) A special investigation of selected problems in Industrial Management which culminates in the completion of a thesis. Must be repeated for a total of 6 semester hours. Prerequisite: Graduate status.
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- 4610** (3) Selected Topics of contemporary interest in social work or specialized fields of practice; variable content. May be repeated for a maximum of 9 semester hours. Prerequisite: SOWK 3601 or concurrently, or graduate status, or instructor consent.
- 4620** A (3) Development of public policy and social service programming. Present and potential utility of individual, group and community intervention modalities as they relate to both the private troubles and public issues of aging. Prerequisite: SOWK 3601 or concurrently, or graduate status, or instructor consent.
- EA -**
- EA 4300** (1-6) Extended, supervised experiences in any phase of theatre production. Credit allowed will depend upon the nature and scope of the assignment. May be repeated for a maximum of 10 semester hours. Prerequisite: Instructor consent.
- EA 4310** (3) An in-depth examination of the business theories and practices in the modern educational, community, and professional theatre. Box office and publicity work are required.
- EA 4400** (3) Works and writers for the stage from the beginning to 1700. The development of theatrical modes and presentation and their influences upon the drama of each period.
- EA 4420** (3) Works, writers for the stage from 1700 to the present. Development of theatrical modes, presentation and their influences upon the drama of each period.
- EA 4430 A** (3) History, literature and production of the American Musical.
- EA 4500 A** A (3) An intensified study of characterization centering around the study of difficult roles, and the adaptation of acting techniques to various styles of acting. May be repeated for a maximum of 6 credit hours. Prerequisite: THEA 1500.
- EA 4510** A (3) Examines the craft, methodology, resources and practice of acting in non-realistic (classical and contemporary) dramatic literature. Emphasis on analysis of stylistic determinants in dramatic literature. May be repeated up to 6 hours.

D 8590 (1-6) Practicum designed to provide direct, supervised experiences for doctoral students, usually in the areas of the technical specialization. The experiences are tailored to provide an opportunity to test and experiment with regard to industry, research organizations, government agencies, and other appropriate experiential ventures associated with technology utilization, transfer, and innovation. The area in which the internship is taken will be designated on the student's transcript, i.e., Internship: Quality Systems. No more than 6 hours may count toward meeting degree requirements. Prerequisite: Admission to candidacy in the Ph.D. in Technology Management program.

D 8920 F (1-3) Provides opportunity for doctoral students to test a theory or hypothesis in technology or management. Field research projects will be designed, conducted, and results evaluated. Prerequisite: Admission to candidacy in the Ph.D. in Technology Management program.

D 8990 D (1-18) A requirement for all doctoral students. Offered by arrangement with the chairperson of the student's dissertation committee. Credit registration must have 9 hours of the 18 hours from Indiana State University and 9 from University of Central Missouri. Prerequisite: Admission to candidacy in the PhD in Technology Management program.

& E - E

& E 4000 E (1-3) Investigation of contemporary problems and issues in technology and occupational education by selected individuals or groups. May be repeated for a maximum of 6 semester hours. Prerequisites: Written contract/proposal with objectives and written department consent.

& E 4090 E (1-3) Meets student needs for additional research and/or laboratory experience in the development of technical knowledge and skills in the areas of technology and occupational education. May be repeated for a maximum of 6 semester hours. Prerequisites: Written contract/proposal with objectives and written department consent.

& E 5110 D E (3) Objectives and changes in philosophy and their significance; interpretation of technology education, vocational, industrial, and technical education in the modern school.

& E 5140 A E (3) Organizing and administering various types of industrial schools and classes. Federal laws, state administration and local practices will be considered.

& E 5170 F C E (2) Analyze and develop a financial plan for obtaining, managing and administering vocational resources.

4730 (3) An examination of the procedures involved in planning, developing, and implementing a tourism and recreation marketing campaign. Only offered summer semester. Prerequisites: HM 1800 or REC 1100 or TOUR 1900.

4810 (1-6) Individual study or one-time courses focused on specialized issues in Women, Gender and Sexuality.

5250 F (3) Exploration of the various

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