UNIVERSITY CURRICULUM COMMITTEE
Minutes #3, approved *(2012-2014 Undergraduate Catalog)*
September 21, 2011

Members Present: Bailey, Cook, Fasching, Ferrence, Kaesberg, Kopsell, Lieberman, Lurie, Morenus, Murphy, Rosenthal, Spelich, Standard, Trefzger, Walstrom, Weilbacher, Wood
Guests Present: Glen Sagers, Information Technology; Jess Ray, University Registrar

1. Standard convened the meeting at 3:05 p.m.

2. **APPROVAL OF MINUTES #2, September 14, 2011:** Cook moved to approve the minutes as amended, Murphy seconded. The minutes were approved as amended by acclamation of the committee.

3. **PROPOSAL ACTION:**

    POL   **MAJOR IN LEGAL STUDIES (New)**   **Kaesberg/Kopsell**

    Kaesberg presented a review of the last week's discussion of the proposal for a new Major in Legal Studies. The primary issue last week was having POL 398.20 for both a requirement for three hours and for an elective for three hours. The system cannot track a course as both a requirement and an elective. The department of Politics and Government agreed to remove POL 398.20 from the electives, and the department can write a sub-waiver for a student who has 6 hours of the course. The catalog copy on the proposal has been revised.

    Kaesberg moved to approve the proposal for the new Major in Legal Studies, Kopsell seconded, and the committee approved the proposal by acclamation. The proposal will be forwarded to the Academic Senate for their consideration. Catalog copy follows:

    MAJOR IN LEGAL STUDIES

    Degrees Offered: B.A., B.S.

    — **Forty (40) hours in Legal Studies, required Political Science courses, and approved electives.**
    — **Required core courses (22 hours): POL 106, 201, 203, 204, 296, 370, 371, and 398.20 (3 hours). NOTE: POL 398.20 may be substituted with one of the Legal Studies elective courses with the consent of either the Department Chair or the Director of Legal Studies.**
    — **Eighteen (18) hours in elective courses (9 hours must be Legal Studies electives):**
       Legal Studies Electives: POL 216, 314, 319, 322, 360, 372.
       Political Science Electives: POL 212, 215, 283, 293.03, 318, 324, 325, 326, 327.
       Other Electives: CJS 206, 215, 305; ENG 248; GEO 312; HIS 253; PHI 242, 340; SOC 365, 367; or other law related courses specifically approved by the Director of Legal Studies.
    — **A maximum of six (6) hours in 398.20 may count toward a Legal Studies major.**
    — **It is recommended that Legal Studies majors enroll in POL 106 in their first year of study. Transfer students wishing to complete the major are recommended to enroll in POL 106 in their first year at Illinois State University if they have not already had an equivalent course.**

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    TEC   **MAJOR IN ENGINEERING TECHNOLOGY (New)**   **Morenus/Walstrom**

    Morenus presented a review of last week's discussion of the proposal for the new Major in Engineering Technology. The proposal to move the Engineering Technology Sequence from under the Industrial Technology major to be a Major in Engineering Technology makes the program more marketable. There were no issues to resolve from the last meeting.

    Morenus moved to approve the proposal for the new Major in Engineering Technology, Walstrom seconded, and the committee approved the proposal by acclamation. The proposal will be forwarded to the Academic Senate for their consideration. Catalog copy follows:

MAJOR IN ENGINEERING TECHNOLOGY

Engineering Technology is an interdisciplinary curriculum that provides experiences in the following areas: Automation, Product Design, Process Control, Plastic Materials, Quality Management, and/or Technical Project Management. The goal of the major is to prepare professionals capable of managing projects and processes in government and private enterprise settings. Course work emphasizes the management of people, processes, and materials through hands-on activities. Initial employment opportunities include: project management, process control, production management, product design, quality control support, and technical sales.

— **75 hours required.**
— **17 hours in General Education: MQM 100; PSY 110; CHE 102; MAT 120; PHY 105.**
— **46 hours in Engineering Technology core: TEC 100, 111, 116, 130, 216, 233, 240, 263, 270, 285, 292, 313, 320, 330, 392; HSC 271.**
— **12 hours minimum of sequence elective courses selected from the following: TEC 234, 244, 316, 345, 370 and 398 (3hours only); ACC131 and ECO105. Students should see the department advisor for specific course recommendations.**

ALLOWABLE SUBSTITUTIONS FOR REQUIRED COURSES:
— **Acceptable substitutions for CHE 102 are CHE 110 and 112, or CHE 140.**
— **Acceptable substitution for MAT 120 is MAT 144 or 145.**
— **Acceptable substitution for MQM 100 is ECO 138.**
— **Acceptable substitutions for PHY 105 are PHY 108 or PHY 110.**
— **Acceptable substitution for TEC 270 is MQM 220.**
— **Acceptable substitutions for TEC 330 are ACC 131 and ACC 132.**

HSC   MINOR IN PUBLIC HEALTH (New)   **Cook/Weilbacher**

Cook presented a review of last week's discussion of the proposal for a new Minor in Public Health.
After last week's discussion about the policy restricting minors and majors within the same department from using more than nine hours of the same courses for credit, the reviewers asked if the catalog copy for the minor should include a phrase about the policy on the nine hour overlap. Cook reported that the department agreed and added the phrase, "No more than 9 hours taken in the minor may count towards a major program of study within the Department of Health Sciences."

Cook moved to approve the new Minor in Public Health, Weilbacher seconded, and the committee approved the minor by acclamation. The proposal will be forwarded to the Academic Senate for their consideration. Catalog copy follows:

MINOR IN PUBLIC HEALTH

Advisor: James Broadbear, Department of Health Sciences
341 Felmley Science Annex, Campus Box 5220
(309) 438-8807; jtbroad@ilstu.edu

The Minor in Public Health is designed to prepare students in core competencies needed by professionals working on population-based health issues. Public health professionals work to improve the quality and length of life in diverse communities by preventing health problems before they occur. They do this through supporting healthy environments, promoting the adoption of healthy lifestyles, preventing injuries, and preserving and protecting important resources that support human health. Public health is an interdisciplinary field built upon knowledge in environmental health, health behavior/promotion, epidemiology, medicine and other areas of study. This minor provides students with a foundation in key public health courses and, in combination with various majors, can create opportunities for employment in public health settings and graduate study in a Master of Public Health program or other health disciplines.

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— **21 hours required.**
— **Required core courses (15 hours): HSC 156, 170, 204.01 or 204.02, 258.01 or 258.02, 296.**
— **Choose 2 courses (6 hours) from the following: HSC 208, 248, 378, 390, 394.**
— **Required and elective courses must be completed with a grade of C or better.**
— **No more than 9 hours taken in the minor may count towards a major program of study within the Department of Health Sciences.**
— **NOTE: Other courses approved by the minor director may be counted toward the minor.**

MUS   MINOR IN JAZZ PERFORMANCE (New)   Trefzger/Ferrence

Music has not submitted the proposal with the changes that were requested at the last meeting. This proposal will be tabled until the next meeting.

CHE   MINOR IN CHEMISTRY (Revise)   Kelly/Murphy

Murphy presented a review of last week's discussion of the proposal to revise the Minor in Chemistry. The only issue was the question about the meaning of the slashes between the courses, CHE 215/216 and 230/231. The slashes in this case represent the word "and." Ryburn revised the catalog copy to remove the slashes and replace them with the word "and."

Murphy moved to approve the proposal to revise the Minor in Chemistry, Lurie seconded, and the proposal was approved by acclamation of the committee. Catalog copy follows:

MINOR IN CHEMISTRY

— **21 hours required in Chemistry, including at least 13 hours in courses numbered 200 or higher excluding CHE 204.**
— **Required courses: CHE 140, 141; 215 and 216 or 250 and 251; 220 or 230 and 231.**

IT   MAJOR IN TELECOMMUNICATIONS MANAGEMENT (Revise)   Ferrence/Trefzger

Ferrence moved to suspend the committee's practice of "discussion one week-action the next" and vote on the proposal for revision of the Major in Telecommunications Management today, Cook seconded, and the committee approved by acclamation.

Ferrence moved to approve the proposal for revision of the Major in Telecommunications Management, with the condition that the proposer edits the catalog copy as suggested, Trefzger seconded, and the committee approved by acclamation.

Catalog copy follows:

MAJOR IN TELECOMMUNICATIONS

Telecommunications Management is concerned with information systems, telecommunications technology, computer technology, business practices, policy issues, and psychological/social considerations involved in voice, data, image, and facsimile transmission. This multidisciplinary program prepares undergraduate students to enter the telecommunications industry in entry-level positions with adequate preparation to assume management positions once work experience is gained. Graduates will possess an in-depth technical understanding of computer networks and telecommunication systems as well as an appreciation of the economic and public policy issues that are important in the design and development of local and wide area networks, and national and multinational telecommunication systems. A minor is not required.

— **86 total hours required.**
— **44 hours in Information Technology courses.**
— **Required courses (29 hours): IT 177, 191, 254, 261, 262, 277, 373, 375, 377, 379.**
— **Professional Practice (6 hours): IT 398.**
— **Elective courses: Choose 3 courses from: IT 350, 371, 374, 376, 378, 380, 381.**
— **Economic, Legal, Public Policy courses (13 hours): ECO 105, 235; FIL 311 or 312 or POL 318; MQM 221; PSY 230.**
— **Supporting requirements (29 hours):**
  —**Mathematics and Statistics (11 hours): MAT 120 or 145; MAT 146 or 160; ECO 138 or GEO 138 or PSY 138 or MQM 100.**
  —**Communication and Organization (15 hours): ACC 131; COM 223; FIL 185; MQM 220; COM 202 or 227 or ENG 249.**
  —**Ethics (3 hours): PHI 234.**

ALLOWABLE SUBSTITUTIONS FOR REQUIRED COURSES:
— **Acceptable substitution for 3 hours of IT 398 is 3 hours of IT 391.**
— **Acceptable substitution for 6 hours of IT 398 is 3 hours of IT 391 and 3 hours from IT 350, 371, 374, 376, 378, 380, 381 (if not used to satisfy other requirements).**

IT **MAJOR IN INFORMATION SYSTEMS (Revised)**   Ferrence/Trefzger
    INFORMATION ASSURANCE AND SECURITY SEQUENCE (Revised)
    INTEGRATION OF ENTERPRISE SYSTEMS SEQUENCE (Revised)
    SYSTEMS DEVELOPMENT/ANALYST SEQUENCE (Revised)
    WEB APPLICATION DEVELOPMENT SEQUENCE (Revised)

Ferrence moved to suspend the committee's practice of "discussion one week-action the next" and vote on the proposal for revision of the Major in Information Systems and the four sequences today, Cook seconded, and the committee approved by acclamation.

Ferrence moved to approve the proposal for revision of the four sequences in the Major in Information Systems with the condition that the suggested changes will be made, Trefzger seconded, and the committee approved by acclamation.

Catalog copy follows:

MAJOR IN INFORMATION SYSTEMS

    The Information Systems (IS) Major is designed to prepare professionals in Information Systems including such areas as systems analysis and design and software engineering. This degree focuses on the use of computer technology and information management methods to solve business problems. This requires an understanding of both the organizational context of the problem and the technologies, methodologies, and tools typically utilized. There are four sequences within this program: the Information Assurance and Security Sequence, the Integration of Enterprise Systems Sequence, the Systems Development/Analyst Sequence, and the Web Application Development Sequence.

    The Analyst sequence provides breadth and depth in analysis and design techniques preparing students to work in a variety of information technology environments, while the Web sequence emphasizes the development of Web/Internet-based business information systems. The Integration of Enterprise Systems Sequence is designed for students who wish to pursue both technical and practical skills in large-scale, multi-platform enterprise computing systems. The Information Assurance and Security Sequence is designed to give students the knowledge and tools necessary for protecting information and information systems. The Information Systems program is accredited by the Computing Accreditation Commission (CAC) of the Accreditation Board for Engineering and Technology (ABET).

    Preparation for Graduate Study:

The Information Systems major offers excellent preparation for a number of computer and management information systems master's programs. Students interested in an MBA program may want to combine this major with a Business Administration minor. Any student interested in graduate school should discuss options with faculty and an academic advisor during their junior year.

Information Assurance and Security Sequence:

The Information Assurance and Security Sequence is designed to give students the knowledge and tools necessary for protecting information and information systems. The sequence provides education for protecting the confidentiality, availability, and integrity of information using technology, people, and policy. A minor is not required.

— **77-78 total hours required.**
— **44-45 hours in Information Technology courses.**
— **Required courses (32 hours): IT 177, 178, 191, 254, 261, 262, 350, 351, 375, 377, 378.**
— **Professional Practice (6 hours): IT 398.**
— **2 courses from: IT 353, 363, 368, 373, 376, 380.**
— **Supporting requirements (33 hours):**
  —**Mathematics and Statistics (11 hours): MAT 120 or 145; MAT 160; ECO 138 or GEO 138 or PSY 138 or MQM 100.**
  —**Communication and Organization (22 hours): ACC 131; COM 223; ECO 105; MQM 220; COM 202 or 227 or ENG 249. Select 2 courses from ACC 132; ECO 225 or 239 or 245; FIL 185, FIL 240; MKT 230.**

ALLOWABLE SUBSTITUTIONS FOR REQUIRED COURSES:
— **Acceptable substitution for 3 hours of IT 398 is 3 hours of IT 391.**
— **Acceptable substitution for 6 hours of IT 398 is 3 hours of IT 391 and 3 hours from IT 353, 363, 368, 373, 376, 380 (if not used to satisfy other requirements).**

Integration of Enterprise Systems Sequence:

The Integration of Enterprise Systems Sequence is designed for students who are interested in the areas of software development, project management, and application integration using large enterprise computing systems. This sequence provides in-depth knowledge regarding the integration of business applications on a large enterprise computing system. A minor is not required.

— **78-79 total hours required.**
— **45-46 hours in Information Technology courses.**
— **Required courses (32 hours): IT 177, 178, 191, 225, 261, 262, 330, 331, 332, 378, 392.**
— **Professional Practice (6 hours): IT 398.**
— **1 course from: IT 272, 363**
— **1 course from: IT 363, 365, 367, 368, 372, 384.**
— **Supporting requirements (33 hours):**
  —**Mathematics and Statistics (11 hours): MAT 120 or 145; MAT 160; ECO 138 or GEO 138 or PSY 138 or MQM 100.**
  —**Communication and Organization (22 hours): ACC 131; COM 223; ECO 105; MQM 220; COM 202 or 227 or ENG 249. Select 2 courses from ACC 132; ECO 225 or 239 or 245; FIL 185; FIL 240; MKT 230.**

ALLOWABLE SUBSTITUTIONS FOR REQUIRED COURSES:
— **Acceptable substitution for 3 hours of IT 398 is 3 hours of IT 391.**

Systems Development/Analyst Sequence:

The Systems Development/Analyst Sequence is designed for the student who will seek a position as an Information Systems professional developing business-oriented information systems. This sequence

provides in-depth knowledge of analysis and design techniques along with electives in emerging technologies. A minor is not required.

— **79 total hours required.**
— **46 hours in Information Technology courses.**
— **Required courses (34 hours): IT 177, 178, 191, 254, 261, 262, 272, 363, 372, 375, 377, 378.**
— **Professional Practice (6 hours): IT 398.**
— **2 courses from: IT 341, 346, 350, 353, 365, 367, 368.**
— **Supporting requirements (33 hours):**
 —**Mathematics and Statistics (11 hours): MAT 120 or 145; MAT 160; ECO 138 or GEO 138 or PSY 138 or MQM 100.**
 —**Communication and Organization (22 hours): ACC 131; COM 223; ECO 105; MQM 220; COM 202 or 227 or ENG 249. Select 2 courses from ACC 132; ECO 225 or 239 or 245; FIL 185;FIL 240; MKT 230.**

ALLOWABLE SUBSTITUTIONS FOR REQUIRED COURSES:
— **Acceptable substitution for 3 hours of IT 398 is 3 hours of IT 391.**
— **Acceptable substitution for 6 hours of IT 398 is 3 hours of IT 391 and 3 hours from IT 341, 346, 350, 353, 365, 367, 368 (if not used to satisfy other requirements).**

Web Application Development Sequence:

The Web Application Development Sequence is designed to give students a background for developing information systems in a Web/Internet-based environment. This sequence provides in-depth knowledge of Web development techniques and supporting technologies, along with related emerging technologies. A minor is not required.

— **78 total hours required.**
— **45 hours in Information Technology courses.**
— **Required courses (36 hours): IT 177, 178, 191, 254, 261, 262, 272, 353, 354, 375, 377, 378.**
— **Professional Practice (6 hours): IT 398.**
— **1course from: IT 341, 367, 368.**
— **Supporting requirements (33 hours):**
 —**Mathematics and Statistics (11 hours): MAT 120 or 145; MAT 160; ECO 138 or GEO 138 or PSY 138 or MQM 100.**
 —**Communication and Organization (22 hours): ACC 131; COM 223; ECO 105; MQM 220; COM 202 or 227 or ENG 249. Select 2 courses from ACC 132; ECO 225 or 239 or 245; FIL 185; FIL 240; MKT 230.**

ALLOWABLE SUBSTITUTIONS FOR REQUIRED COURSES:
— **Acceptable substitution for 3 hours of IT 398 is 3 hours of IT 391.**
— **Acceptable substitution for 6 hours of IT 398 is 3 hours of IT 391 and 3 hours from IT 341, 367, 368 (if not used to satisfy other requirements).**

IT   MINOR IN INFORMATION TECHNOLOGY (Revise)   Ferrence/Trefzger

With no other comments and with the condition that the department corrected the catalog copy as suggested, Ferrence moved to suspend the committee's practice of "discussion one week-action the next" and vote on the proposal for revision of the Minor in Information Technology today, Cook seconded, and the committee approved by acclamation.

Ferrence moved to approve the proposal for revision of the Minor in Information Systems with the condition that the suggested changes will be made (to change the hours from "22-23hours" to say "A minimum of 22 hours."), Trefzger seconded, and the committee approved by acclamation.

Catalog copy follows:

MINOR IN INFORMATION SYSTEMS

The Information Systems Minor is designed for people who will use computers as tools in their chosen profession or provide limited computer support for their work group, but not be computing professionals. The Application Development Concentration is a general information systems minor requiring the IT core plus two elective courses.

— **A minimum of 22 hours required.**
— **Required courses: IT 160, 177, 178, 254, 261, 262.**
— **1 course from: IT 341, 350, 353, 365, 367, 368, 375, 378.**
— **3-4 hours of an IT 200 or 300-level course.**

4. **PROPOSAL DISCUSSION:**

IT MAJOR IN TELECOMMUNICATIONS MANAGEMENT (Revise)   Ferrence/Trefzger

Glen Sagers was present from Information Technology. Ferrence distributed a handout and presented a review of the proposal to revise the Major in Telecommunications.
- The School of Information Technology proposes replacing IT 160 (3 hours) with IT 262 (3 hours) in the major course requirements. Course material in IT 160 is covered in other IT courses. The new course was suggested by the industry advisory board.
- Instead of increasing the number of hours, the school looked for redundancies and removed those.
- They dropped IT 353, and 382 from the list of elective courses and added IT 376 and 381.
- They dropped TEC 383 from the list of required courses and added IT 262. Since dropping TEC 383 from their program will reduce the number of students enrolled in TEC 383, they obtained a letter of support from the Department of Technology.
- They also reformatted the catalog copy to make it easier to read.

Questions/Comments:
- The reviewers suggested removing "Major Courses (57 hours)" and instead show the total hours, the number of IT courses, and then keeping the rest. "Major courses" is confusing because saying major courses would seem be IT courses, but the list includes courses from outside the school.
- Under "Supporting Requirements" they were asked to choose one or two of the statistics courses that used to be, but are no longer, cross-listed: ECO 138, GEO 138, POL 138 or PSY 138. The content of these courses are very different and one may fit the program better than the rest.

MAJOR IN INFORMATION SYSTEMS (Revise)   Ferrence/Trefzger
INFORMATION ASSURANCE AND SECURITY SEQUENCE (Revise)
INTEGRATION OF ENTERPRISE SYSTEMS SEQUENCE (Revise)
SYSTEMS DEVELOPMENT/ANALYST SEQUENCE (Revise)
WEB APPLICATION DEVELOPMENT SEQUENCE (Revise)

Ferrence presented a review of the proposal to revise the sequences in the Major in Information Systems.
- The changes that the School of Information Technology proposed for the sequences in the Major in Information Technology are essentially the same as the ones proposed for the Major in Telecommunications.
- The most substantive change is to replace IT 160 with new course IT 262 in all four of the major sequences. The rationale is to replace basic coverage that Information Technology students see in other courses and tend to know anyway with strong exposure to IT Project Management, an essential skill noted by the school advisory board.
- Other changes are straightforward corrections and housekeeping, e.g., allowing some new choices in lists, including the existing IT 350 and new IT 376 courses.
- Moving the 4-hour course IT 363 from required to choice status causes the Information Assurance and Security Sequence to change to variable hours (44-45).

Questions/Comments:

- The reviewers asked if a student under the current catalog can take IT 262 and count it toward the required hours. The answer was, yes, with a waiver they can ask for IT 262 to replace IT 160 in the majors until the change is established in the 2012-2014 catalog.
- Under the Integration of Enterprise Systems Sequence, FIL 185 is now in the supporting course list; the reviewers asked if there was an error in the previous catalog. Sagers said that it was omitted in error in the last catalog.
- As with the Telecommunications major, they were asked to choose one or two of the statistics courses listed as ECO/GEO/POL/PSY 138 because these courses are no longer cross-listed and are very different, depending on the curriculum for which they were created.
- Rosenthal asked Sagers if they had considered the impact of the proposed changes on transfer students. Sagers answered that they are already working on this with Heartland.
- It was noted that in proposed catalog copy for "supporting" requirements they have "or" between ECO courses, but commas between COM choices. Eliminating the word "or" would be most consistent with presentation of other course choice lists, including those for IT courses. The same applies to the list of FIL courses.

MINOR IN INFORMATION SYSTEMS (Revision)   **Ferrence/Trefzger**

Ferrence presented a review of the proposal to revise the Minor in Information Systems.
- The changes the School of Information Technology proposed are consistent with those already discussed for the majors.
- They propose removing IT 160 from the course requirements and adding IT 262.
- The total number of hours was changed from 22 to 22-23 because they changed the wording of the "additional IT 200 or 300 level course (at least 3 hours)" to "3-4 hours of IT 200 or 300-level course."
- Standard suggested that it should instead say "A minimum of 22 hours."

With no other comments and with the condition that the department corrected the catalog copy as suggested, Ferrence moved to suspend the committee's practice of "discussion one week-action the next" and vote on the proposals for revision of the Information Technology programs today, Cook seconded, and the committee approved by acclamation. (See "Proposal Action" above.)

LIAISON REPORTS:

a. **Council for General Education:** Weilbacher – Nothing to report.
b. **Council on Teacher Education:** Standard reported that the full CTE met on Tuesday. They talked about shifting deadlines for the student teaching gateways and NCATE.
c. **Academic Affairs Committee:** Kaesberg reported that the AAF met last Wednesday for the first time this semester. They discussed the list of activities that were completed last year and the ones that were carried over for this year. They will review the University Curriculum Committee Annual Report, the Report on Diversity Recruitment, and the withdrawal and CLEP policies. Kaesberg also reported that the committee on textbook issues is meeting regularly; this stimulated a conversation by the UCC on textbooks and the alternative methods for obtaining textbooks.

5. **STAFF REPORT:** Ryburn reported that there are several proposals on circulation at this time: two from Nursing (RN/BSN Sequence and Prelicensure/BSN Sequence) two IDS proposals (Minor in Ethnic Studies and Minor in Native American Studies). All are for revision of programs and will be discussion items at the October 5, 2011 meeting. The proposal for revision of the Curriculum and Instruction program in Elementary Education has been returned and will be on the agenda for discussion. Ryburn asked if the committee needed to meet September 28, 2011. The committee decided to cancel the September 28 meeting.

6. **MISCELLANEOUS:**
Jess Ray, the University Registrar, reported that the final exam schedule is available on the website.

Kaesberg shared with the committee that Nursing has implemented weekend clinicals and it has been very successful for students and faculty.

7. **ADJOURNED:** Ferrence moved to adjourn, Morenus seconded. The meeting was adjourned at 4:00 p.m. The next meeting will be on October 5, 2011.

8. **INFORMATION:** The University Curriculum Committee Executive Secretary approved the following:

New Courses

IT
262   INFORMATION TECHNOLOGY PROJECT MANAGEMENT
        3 sem. hrs.
The processes, methods, techniques, and tools in managing information technology projects including scope, time, cost, quality, and risk management. Prerequisites: IT 261 or concurrent registration. Major/minor only or consent of department advisor.

376   WIRELESS AND MOBILE NETWORK SECURITY
        3 sem. hrs.
Overview of fundamental principles and security algorithms of security in wireless networks. Emphasis is on application, design, and analysis. Prerequisites: Grade of C or better in IT 375. Major/minor only or consent of department advisor.

Course Revisions:

ECO
        (changed prerequisite)
320   INDUSTRIAL ORGANIZATION
        3 sem. hrs.
Theoretical and empirical analysis of basic influences on industrial markets and performances. Market practices, the role of competition, and related policy issues. Prerequisite: ECO 240.

IT
        (added to prerequisites)
363   SYSTEMS DEVELOPMENT II
        4 sem. hrs.
Emphasis on analysis and design techniques and tools, project communication, systems development methodologies, interface design. Systems development team project. Prerequisites: Grade of C or better in IT 261 and 262. Grade of C or better in COM 223. Major/minor only or consent of department advisor.

        (changed prerequisites)
379   TELECOMMUNICATIONS NETWORK
        OPERATIONS AND MANAGEMENT
        3 sem. hrs.
Overview of process of operating and managing large scale telecommunications networks; capstone course for Telecommunications Management major. Prerequisites: Grade of C or better in IT 262, 377; ECO 235; MQM 220. Major/minor only or consent of department advisor.

SWK
        (changed title)
326   PRACTICE SKILLS
        3 sem. hrs.
Course which teaches interpersonal social work practice skills. Materials charge optional. Formerly *PRACTICE SKILLS LABORATORY*. Prerequisites: SWK foundation courses (See Major in Social

Work); PSY 350 or concurrent registration. Major only; junior standing. Concurrent registration SWK 223, 310, 325.

TEC
   (changed prerequisites)
392   MANUFACTURING ORGANIZATION AND MANAGEMENT
        3 sem. hrs.
The study of industrial production systems including product, manufacturing, and plant engineering through the managing of a production project. Lecture and lab. Materials charge optional. Prerequisites: TEC 398.02 or 400 hours of documented engineering technology related work experience; TEC 270 and 9 senior hours of technical coursework in the Integrated Manufacturing Systems Sequence and senior standing or consent instructor. Major/minor only.

Decimalized Courses:

FIL

382.04   SEMINAR IN INSURANCE: SUSTAINABILITY, RISK MANAGEMENT AND INSURANCE
        3 sem. hrs.
This course examines overarching risks, their interconnections, and common causes in areas such as human resources, marketing, finance, accounting, real estate, manufacturing, operations, and corporate governance. Upon completion of the course, students should be able to identify key economic and environmental risks facing businesses and explain: the interconnections among these risks; the common causes of risks stemming from unsustainable business, consumer, and government activities; the benefits to businesses having sustainable business practices, the relationship between sustainability, risk management, and insurance; and describe new risk management tools being developed to help address sustainability issues.

MQM

340.16   SEMINAR IN MANAGEMENT: ENVIRONMENAL MANAGEMENT/STRATEGY
        3 sem. hrs.
The course will adopt a business perspective to the development of an environmental sustainability strategy and management of organizations. Various models will be discussed to help inform students about environmental issues and their effects on the firm. Topics related to aspects of sustainability and environmental management will be covered. Prerequisites: MQM 220 and consent of instructor.

Deleted Courses:

IT

160   FOUNDATIONS OF INFORMATION TECHNOLOGY
        3 sem. hrs.
Concepts of computer-based systems; computer hardware, software, and organizational environments; system categories, delivery modes; systems development methods; career opportunities, responsibilities. Required as the first course in the IT major.

Editorial Requests:

BSC
   (title changed)
223   ECOLOGY AND CONSERVATION OF PLANTS
        4 sem. hrs.

Ecology, conservation, and taxonomy of vascular plants. Lecture and lab. Formerly *ECOLOGY AND IDENTIFICATION OF PLANTS*. Prerequisites: BSC 196 and 197.

COM

(remove prerequisites)
161   MEDIA WRITING AND PRESENTATION
          3 sem. hrs.
Introduction to the variety of mass communication media students may encounter in their careers. Preparation and presentation of various mass communication formats.

(description changed)
268   PUBLIC RELATIONS WRITING AND PRODUCTION
          3 sem. hrs.
Public relations functions, ethics, and writing of new releases, newsletters, brochures, and electronic media for organizations' various audiences. Prerequisites: COM 111, 161.

TEC

(*changed prerequisites*)
250   GRAPHIC MEDIA COMPOSITION
          3 sem. hrs.
Study of graphic media production technology to plan and create documents including advertisements, brochures, books, packages, and e-books. Lecture and lab. Materials charge optional. Prerequisites: TEC 150. Major/minor only or consent of department advisor.

(added to prerequisites)
350   PACKAGE DESIGN AND PRODUCTION
          3 sem. hrs.
Study of design, materials, and production processes used in the manufacture of packages and displays. Lecture, lab and field trips. Materials charge optional. Prerequisites: TEC 116, 257. Major/minor only or consent of department advisor.

(_changed title_)
352   PREPRESS TECHNOLOGY
          3 sem. hrs.
Utilization of advanced pre-press methods and technologies in the creation and management of print media. Lecture, labs and field trips. Formerly *ADVANCED PREPRESS TECHNOLOGY*. Materials charge optional. Prerequisites: TEC 250. Major/minor only or consent of department advisor.

THE

(*Added prerequisites*)
280   CREATIVE DRAMA
          3 sem. hrs.
Drama in instructional situations for preschoolers through adults, including theory and activities for personal creative growth and teaching both the arts and non-arts subjects. Observations and practical activities. Includes Clinical Experience: 4 hours, Type 1. Prerequisites: Theatre Education majors only; junior.