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CURRICULUM COMMITTEE RECOMMENDATION

SR-08-09-43 CC

Recommends approval of the listed **COURSE CHANGES** from the following colleges and/or schools:

- **COLLEGE OF EDUCATION & HUMAN SERVICES**

ATE 305 Office Machines Quantitative Applications

Change in title to: Office Technology

Change in content FROM: Currently the course provides student with a basic understand of calculators, transcription machines and duplicating equipment which are used in the office setting. **TO:** Course will provide and in-depth exploration of technologies used by business and industry in the 21st century and beyond such as: Webinars, PDA, Pod Casts, e-commerce, digital imaging, video technology, Web pages for business, global computer networking, management information systems, telecommunication, virtual reality technology, smart cards, CBI, inventory systems analysis, bilingual technology, analyzing social and legal environment of technology.

Change in catalog description FROM: Designed to develop proficiency of business math applications on calculators, and to provide experience with duplicating and machine transcription machines. **TO:** Concepts of systems analysis and design with emphasis in understanding the technologies involved in current business systems from the viewpoint of the End-User System Analyst.

Rationale: Major changes in course content is being proposed. The existing ATE 305 course content is outdated and no longer needed by professionals in Business & Marketing Education. It is imperative that the MU COEHS continue to revise course content to remain current and on the cutting edge. This course will require students to not only be able to use a variety of current technology but will also require that they be able to analyze systems and recommend appropriate systems to meet the various issues and problems faced by the business and industry today as well in the future. As a result of the integration of the Business Education and Marketing Education into Business & Marketing Education this course will have to focus on a much broader range of systems and their applications.

ATE 422 Administration of Cooperative Programs

Change in title to: Project Method of Instruction

Change in content FROM: Currently the course examines cooperative education programs and how to administer such programs. **TO:** Course will provide an in-depth analysis of a variety of teaching methods used by technical programs including, but not limited to work based learning, service learning, project methods of instruction, cooperative education, mentoring, job shadowing, etc.

Change in catalog description FROM: Administration Cooperative Education programs, recruiting, and selecting students, selecting training agencies and placing students; conducting public relations activities for the program; and advising the student organization. **TO:** An analysis of various project methods of instruction that are utilized by vocational education teachers.

Rationale: Major changes in course content is being proposed. The existing course content

needs to be updated and expanded upon to include the needs of both Business and Marketing Education teachers. This course will require students to not only be able to identify various instructional techniques but will also require that they write policies and procedures for implementing such techniques in a vocational setting. Students will also need to problem solve situations to determine the most appropriate instructional technique. As a result of the integration of Business Education and Marketing Educations into Business & Marketing Education this course will have to focus on a much broader range of instructional approaches.

ATE 425 Computer Applications in Business and Marketing

Change in course number **FROM:** 425 **TO:** 335

Rationale: This course is being moved to a 300 level course so that students can take this course earlier in the coursework. ATE faculty, as well as the advisory committee, felt this course because of content was better suited to a 300 level.

ESS 369 Nature and Bases of Motor Skills

Change in title to: Motor Learning

Rationale: Change in full course name and catalog abbreviation are to better reflect current trends of course title.

HS 422 Prevention, Care, and Treatment of Athletic Injuries

Change it title to: Orthopedic Evaluation for the Athletic Trainer

Change in content **FROM:** This course is designed to prepare the athlete for competition, for prevention and protection from accidents, and for examination, care, and rehabilitation following injury. **TO:** Orthopedic evaluation of musculoskeletal injuries to the upper extremity, torso, and back, and lower extremity. This course includes pathology of musculoskeletal injuries and occurrence of those injuries in athletics.

Change in catalog description **FROM:** This course is designed to prepare the athlete for competition, for prevention and protection from accidents, and for examination, care, and rehabilitation following injury. (PR: PE 215 and 348) **TO:** Evaluation of musculoskeletal orthopedic injuries of the upper and lower extremities. (PR: HS 215)

Rationale: The change in catalog and full course name is to better reflect the content of the course as it relates to athletic trainers. With the addition of HS 449 and 221, this course no longer delves into rehabilitation of injuries and preparing the athlete for competition, but assessment of injuries only. The change in catalog description also better reflects the course content and updates course prerequisites. This alpha designator for prerequisites was changed to HS several years ago.

HS 448 Therapeutic Modalities in Sports Medicine

Change in credit hours **FROM:** 5 **TO:** 3

Rationale: The change in credit hours is to better reflect teaching load and actual course contact time. This course content is no more than HS 422 (which is a 3 hour course).

HS 449 Therapeutic Exercise in Sports Medicine

Change in title to: Therapeutic Exercise in Athletic Training

Change in credit hours: **FROM:** 4 **TO:** 3

Change in catalog description **FROM:** Investigation and analysis of current trends in rehabilitation exercise, muscle testing and goniometry. Includes a lab. (PR: PE 201 and PE

215 and permission) **TO:** Investigation and analysis of current trends in rehabilitation exercise, muscle testing and goniometry. Includes a lab. (PR: HS 422)

Rationale: The change to the full course name and catalog name is to better reflect course content and to be in compliance with accreditation standards. Our accrediting agency does not allow programs to use the term "sports medicine" in any course names, advertisements, or academic program literature. The change in credit hours is to better reflect teaching load and actual course contact time. This course content is no more than HS 422 (which is a 3 hour course). The change in catalog description is to better reflect course content.

- **COLLEGE OF HEALTH PROFESSIONS**

CLS 421 Advanced Clinical Chemistry & Microbiology

Change in content TO: Addition of Advanced Analytical Techniques lecture content to the Clinical Chemistry portion of this course (1st 8 weeks).

Rationale: The addition of lecture content on advanced analytical techniques in the clinical chemistry laboratory will be added to the lecture content of this course. This content was currently contained in the CLS 464 Laboratory Instruction course, which is being changed to an entirely laboratory based course. The addition of this content would be a more appropriate placement in the CLS 421 course; currently the same textbook is used for the lecture content of both the CLS 464 and 421 courses.

CLS 460 Clinical Laboratory Management & Supervision

Change in title to: Clinical Laboratory Management & Education

Change in catalog description: FROM: Laboratory personnel and resource management, cost control, cost analysis, lab. marketing, accreditation. **TO:** Laboratory personnel and resource management, cost control, cost analysis, lab marketing, accreditation and CLS education practices.

Rationale: The name of the course and catalog description has been changed to meet accreditation standards and to more accurately reflect the content covered in the course, which includes CLS education practices. The catalog abbreviation has also been edited to reflect this change.

CLS 464 Clinical Laboratory Instrumentation & Information Systems

Change in content FROM: 2 hours of lecture time to two hours and 2 hours of laboratory time. **TO:** Elimination of the lecture content and addition of 1 hour of laboratory time, resulting in a 3 hour laboratory course only.

Rationale: Due to the changing nature of the laboratory field and the emergence of new technology in the clinical laboratory, there is a increased need for students to have experience in working with laboratory equipment and computer systems before graduating with a BSMT degree. The lecture component of this course is primarily focused on advanced analytical techniques that have become more research based and are not used often in the clinical setting. There is a greater need for students to have more time working with instrumentation before entering senior Medical Technology clinical rotations in the hospital.

CLS 499 Seminar: Readings in Laboratory Medicine i.e. Senior Seminar
Change in title to: Seminar: Readings in Laboratory Medicine i.e. Seminar In Lab Medicine
Change in catalog description FROM: Senior seminar. Students and faculty present and critique articles from recent clinical laboratory-related publications. **TO:** For Medical Technology Students. Students and faculty present and critique articles from recent clinical laboratory-related publications.

Rationale: This course will be taken by junior and senior Medical Technology students, therefore the catalog abbreviation has been changed and "Senior Seminar" has been eliminated from the description.

- **COLLEGE OF LIBERAL ARTS**

GEO 420 Geographic Field Research

Change in credit hours FROM: 3 **TO:** 1 to 3

Rationale: Capstone Course where students are supposed to finish a research project. One main goal is not only to conduct research but to present the work at a meeting. This goal is very difficult to achieve because submission deadlines and conferences are usually separated by several months. The plan is to teach the original three credits over two semesters instead: 2 credits in fall for the development of the research idea, thorough literature review, and start of the data collection. 1 credit in spring to conduct the actual analysis and present results.

LAT 408 Roman Epistolary Literature: Cicero and Pliny

Change in catalog description FROM: A unique look at Roman life, the public and private, though a close reading in Latin of the correspondence of Cicero and Pliny the Younger. **TO:** A unique look at Roman life, public and private, though a close reading in Latin of the correspondence of Cicero, Seneca the Elder, and Pliny the Younger.

Rationale: Reflects the change in current content.

SOC 433 Industrial Sociology

Change in title to: Sociology of Work

Rationale: The title Industrial Sociology has come to be associated with Frederick Taylor's Scientific Management, which is only a small part of the class. The new title Sociology of Work conveys the actual breadth of the course.

- **COLLEGE OF SCIENCE**

CHM 290H Honors in Chemistry I

Change in catalog description FROM: Independent study programs for outstanding students. **TO:** Independent study or undergraduate research project for outstanding students.

Rationale: The additional text better describes the activity recent participants in the class engage in.

CHM 291H Honors in Chemistry I

Change in catalog description FROM: Independent study programs for outstanding students. **TO:** Independent study or undergraduate research project for outstanding students.

Rationale: The additional text better describes the activity in which recent participants engaged.

CHM 331 Chemistry Seminar

Change in catalog description **FROM:** A graduation requirement for all juniors seeking the B.S. in Chemistry degree. **TO:** Students attend lectures presented by internal and external speakers to learn about the nature and variety of chemical research.

Rationale: The current course description does not actually describe the course. The new one does.

CHM 332 Chemistry Seminar

Change in catalog description **FROM:** A graduation requirement for all juniors seeking the B.S. in Chemistry degree. **TO:** Students attend lectures presented by internal and external speakers to learn about the nature and variety of chemical research.

Rationale: The current course description does not actually describe the course. The new one does.

CHM 345 Introduction to Analytical Chemistry

Change in catalog description **FROM:** Introduction to the basic principles of analytical chemistry including traditional wet methods and contemporary instrumental methods of chemical analysis. **TO:** Introduction to the basic techniques of analytical chemistry and data analysis through statistical procedures. Traditional wet and contemporary instrumental methods are covered with an emphasis on experimental care and craftsmanship.

Rationale: The current description is more consistent with a syllabus than a description of the course.

CHM 390H Chemistry Seminar

Change in catalog description **FROM:** Independent study programs for outstanding students. **TO:** Independent study or undergraduate research project for outstanding students.

Rationale: The additional text better describes the activity in which recent participants in the class engaged.

CHM 391H Chemistry Seminar

Change in catalog description **FROM:** Independent study programs for outstanding students. **TO:** Independent study or undergraduate research project for outstanding students.

Rationale: The additional text better describes the activity in which recent participants in the class engaged.

CHM 401 Research for Undergraduates

Change in catalog description **TO:** Students engage in a research project in collaboration with a faculty member.

Rationale: Currently there is no course description.

CHM 402 Research for Undergraduates

Change in catalog description **FROM:** Both a formal oral and written report of the results of the research must be presented to the faculty of the Department of Chemistry. **TO:** Students engage in a research project in collaboration with a faculty member.

Rationale: The current description is more consistent with a syllabus than a description of the course.

CHM 431 Chemistry Seminar

Change in catalog description **FROM:** A graduation requirement for all seniors seeking the B.S. in Chemistry degree. **TO:** Students attend lectures presented by internal and external speakers to learn about the nature and variety of chemical research.

Rationale: The current course description does not actually describe the course. The new one does.

CHM 432 Chemistry Seminar

Change in catalog description **FROM:** A graduation requirement for all juniors seeking the B.S. in Chemistry degree. **TO:** Students attend lectures presented by internal and external speakers to learn about the nature and variety of chemical research. Students also present an oral and written presentation of their capstone experience.

Rationale: The current course description does not actually describe the course. The new one does.

CHM 490 Chemistry Internship

Change in catalog description **FROM:** Supervised chemistry laboratory work. Arrangements must be made in advance with Department of Chairman. May be an elective in B.S., Chemistry program but not B.S. in Chemistry program. **TO:** Students engage in supervised chemical laboratory work in a professional setting.

Rationale: The current text is not really a course description. The new text describes the course.

CHM 491 Capstone Experience

Change in catalog description **TO:** Students engage in a collaborative research project with a faculty member.

Rationale: There is no current description. The description provided does describe the current content of the course.

IST 340 Double Helix: Issues in DNA Technology

Change in title to: DNA Technology

Change in catalog description **FROM:** The course deals with DNA and genes, the code of life, which we receive from our parents. It tells how humans recently learned about DNA and have started to manipulate it. (PR: IST 111 or equivalent) **TO:** Hands-on course using genes to manufacture proteins. DNA manipulation, sequencing, cloning, library construction, screening, PCR and techniques used in biotechnology and pharmaceutical industries. (PR: IST 241 or equivalent)

Rationale: The course description in the catalog and the course title in the catalog do not reflect the content of the course as taught. The course is a required class for Biotechnology majors and IST Biotechnology Area of Emphasis students. Course description as listed is confused with ISC Biotechnology.

IST 341 It's All in Your Genes: Issues in Human Genetics

Change in title to: Human Genetics

Change in catalog description **FROM:** Gene cloning, genetic testing, gene engineering, DNA fingerprinting. What does human heredity hold from the past, and what does it have in store for the future? (PR: IST 111 or equivalent) **TO:** Principles, problems, and methods in human genetics. Mendelian, biochemical, medical, quantitative, and molecular genetics,

cytogenetics, bioethics applied to humans. Lab includes DNA sequencing SNP genotyping (PR: IST 241 or equivalent)

Rationale: The course description in the catalog and the course title in the catalog do not reflect the content of the course as taught. The course is a required class for Biotechnology majors and IST Biotechnology Area of Emphasis students. Course description as listed is confused with ISC Biotechnology.

FACULTY SENATE CHAIR:

APPROVED BY THE FACULTY SENATE: Cam Brummer DATE: 5/12/09

DISAPPROVED BY THE FACULTY SENATE: _____ DATE: _____

UNIVERSITY PRESIDENT:

APPROVED: [Signature] DATE: 5/13/09

DISAPPROVED: _____ DATE: _____

COMMENTS: _____

