

## UNIVERSITY CURRICULUM COMMITTEE

Minutes #10 approved (for 2005-2006 Catalog)

December 1, 2004

Members Present: Bassoppo-Moyo, Brown, Buckley, Canabal, Craig, Ferrence, Kossman, Morenus, Morgan, Quane, Ryburn, Stier, Trefzger, Van Der Hoven, Zintambila  
Members Absent: Jayaswal  
Guests Present: Joyce Kief, Kinesiology and Recreation; Meridee VanDraska, Health Sciences; Mary Elaine Califf, Information Technology; Jonathan Rosenthal, College of Arts and Sciences; Krzysztof Ostaszewski from Mathematics

1. Joe Trefzger convened the meeting at 3:07 p.m.
2. **APPROVAL OF MINUTES:** The committee will review Minutes #8, from November 10, 2004 and #9 from November 17, 2004 and send corrections to Jeri by Friday (motion by Brown, seconded by Ferrence). If there are no corrections, the minutes will be approved as written.
3. **PROPOSAL ACTION:**

### **ECO Major in Economics (Revision)**

**Bassoppo-Moyo/Stier**

Ferrence moved to suspend the "discussion one week, action the next" rule and take action on the proposal today, Morenus seconded and the committee voted unanimously to suspend the rules and vote today, pending completion of circulation on December 2, 2004. Bassoppo-Moyo moved to approve the proposal to revise the Major in Economics, Stier seconded, and with no dissenting votes, the proposal was approved. Catalog copy follows:

#### **MAJOR IN ECONOMICS**

- 31 hours required.
- Required courses: ECO 105, 148, 240, 241, 300; one 3-hour 300-level ECO course; and MAT 121 or 145.
- A grade of C or better must be earned in ECO 240, 241, and 300.
- 3 elective ECO courses at the 200- or 300-level are required in addition to the required 3-hour 300-level course.
- At least 15 hours of senior college credit from the Illinois State University Department of Economics must be completed. The Department Chairperson may grant exemptions to students whose cumulative GPA is 3.00 or higher.

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### **HSC Major in Clinical Laboratory Sciences (Revision)**

**Craig/VanDerHoven**

Ferrence moved to suspend the "discussion one week, action the next" rule and take action on the proposal today, Morenus seconded and the committee voted unanimously to suspend the rules and vote today, pending completion of circulation on December 2, 2004. Craig moved to approve the proposal to revise the Major in Clinical Laboratory Sciences, VanDerHoven seconded with the stipulation that the hours required in the two tracks are corrected from 30 to 27 hours, and with no dissenting votes, the proposal was approved pending completion of circulation. Catalog copy follows:

#### **HSC**

#### **Clinical Laboratory Science Program**

**Degree Offered: B.S.**

**Clinical laboratory scientists work as a part of the medical team. They analyze body fluids and perform tests using highly specialized equipment to diagnose diseases and monitor treatment. They are largely employed in hospitals and private clinical laboratories and industry.**

**Admission/Retention Requirements:**

Entering freshmen desiring admittance to the Clinical Laboratory Science (CLS) program must meet the admission requirements established by the University. Transfer students and students currently enrolled at the University who wish to be admitted to the program must (1) have a minimum cumulative GPA of 2.00 and a C or better in required classes, (2) provide an updated transcript of all college courses, and (3) complete a personal interview with the program director or Departmental academic advisor. Students should plan their specific program of study in consultation with the Department advisor. Seminars and independent study are available for students desiring additional study in the field. Graduates of the program are eligible to write a national certification examination. Evidence of hepatitis B immunization is required for enrollment in some CLS courses.

#### CLINICAL EXPERIENCES IN CLINICAL LABORATORY SCIENCE

Clinical experiences are provided off-campus in hospitals affiliated with the University. The experience involves technical instruction in hematology, clinical chemistry, blood banking, pathogenic microbiology and other aspects of laboratory medicine. Students are responsible to provide their own transportation and housing during the clinical experience. Students apply for acceptance into the clinical experience during the fall of the junior year. Students must have maintained a cumulative 2.00 GPA and have received a C or better in all courses required for the major to be eligible for the clinical experience. Two clinical experience options are available: the Standard Track and the Alternative Track. The Standard Track is two semesters; clinical experience in the fall and lecture in the spring semester. The Alternative Track is a 10-12 month experience in an accredited hospital-based program which includes both lecture and laboratory practice throughout. Enrollment in the Alternative Track is extremely limited (see the program director for further details). See the Clinical Laboratory Science Student Handbook for more information and a current list of Standard Track and Alternative Track locations. Students must complete an entire set of clinical experience courses (Standard Track or Alternative Track) to be eligible for national certification.

#### MAJOR IN CLINICAL LABORATORY SCIENCE

- 73 hours as specified below.
- Required courses (22 hours): HSC 260, 261, 262, 263, 301, 302, 308 and clinical rotations either as:  
Standard Track (27 hours): HSC 312, 315, 316, 317, 318, 319, 325, 398.22, 398.23, 398.24, 398.27, 398.28, 398.29, *or*  
Alternative Track (27 hours): HSC 331, 332, 333, 334, 335, 336, 337, 338, 339.
- Required courses outside Health Sciences (21 hours): BSC 203, 219 and 260 or 283; CHE 141, 220.
- Required General Education courses (14 hours): BSC 196, 197; CHE 140; MAT 120.
- Strongly recommended courses: HSC 105, 160, 204, and a computer course.
- NOTE: This major may require more hours than indicated due to prerequisites or lack of prior skill.

#### A.A.S. to B.S. Degree:

Persons possessing an Applied Associate of Science degree in clinical (medical) laboratory technology from an Illinois community college may complete their B.S. through the Illinois Articulation Initiative. To qualify, students must be certified as a medical laboratory technician by the American Society of Clinical Pathologists or as a clinical laboratory technician by the National Credentialing Agency. Qualified students are awarded proficiency credit for some of the A.A.S. courses. Interested students should contact the CLS program director for details.

ITK	<b>Major in Information Systems (Revision)</b> <b>Systems Development/Analyst Sequence (Revision)</b> <b>Web Application Development Sequence (Revision)</b> <b>Minor in Information Systems (Revision)</b> <b>Major in Telecommunications Management (Revision)</b>	Van DerHoven/Zintambila
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Ferrence moved to suspend the "discussion one week, action the next" rule and take action on the proposal today, Morenus seconded and the committee voted unanimously to suspend the rules and vote today, pending completion of circulation on December 2, 2004. VanDerHoven moved to approve the proposals as a whole, Zintambila seconded and with no dissenting votes, the ITK proposals were approved pending circulation Catalog copy follows:

**ITK****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 two sequences within this program: 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 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.

**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 depth in analysis and design techniques along with electives in emerging technologies. A minor is not required.

**Information Technology courses (43 hours):****Information Technology core (10 hours):**

—ITK 160, 168, 261.

**Practical Experience (4 hours):**

—ITK 191.

—1 of: ITK 398, 391.

**Other ITK course requirements (29 hours):**

—ITK 178, 254, 272, 363, 372, 375, 378.

—2 of: ITK 341, 346, 352 or 353, 365, 367, 368.01.

**Supporting requirements (36-37 hours):****Mathematics and Statistics (11-12 hours):**

—MAT 120 or 145, 160.

—1 statistics course, e.g. MQM 100; ECO/GEO/POL/PSY 138.

**Communication and Organization (25 hours):**

—COM 110, 223; ACC 131; ECO 105; MQM 220.

—1 of: COM 202, 227; ENG 249.

—2 of: ACC 132; FIL 208, FIL 240; MKT 230, ECO 225 or 228 or 239 or 245.

**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 depth in Web development techniques and supporting technologies, along with related emerging technologies. A minor is not required.

**Information Technology courses (42 hours):****Information Technology core (10 hours):**

—ITK 160, 168, 261.

**Practical Experience (4 hours):**

—ITK 191.

—1 of: ITK 398, 391.

**Other ITK course requirements (28 hours):**

- ITK 178, 254, 272, 352, 353, 375, 377, 378.
- 1 of: ITK 341, 367, 368.03.

**Supporting requirements (36-37 hours):****Mathematics and Statistics (11-12 hours):**

- MAT 120 or 145, 160.
- 1 statistics course, e.g. MQM 100; ECO/GEO/POL/PSY 138.

**Communication and Organization (25 hours):**

- COM 110, 223; ACC 131; ECO 105; MQM 220.
- 1 of: COM 202, 227; ENG 249.
- 2 of: ACC 132; FIL 208, FIL 240; MKT 230; ECO 225 or 228 or 239 or 245.

**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 ITK core plus two elective courses. The Information Specialist Concentration emphasizes using appropriate software tools rather than programming as a means of obtaining information.

**Minor (22 hours):****Required core (10 hours):**

- ITK 160, 168, 261.

**Concentration (12 hours):****Application Development:**

- ITK 178, 254.
- 1 of: ITK 341, 352, 353, 355, 365, 367, 368.01, 368.03, 375, 378.
- 1 additional ITK 200 or 300-level course (at least 3 hours).

**Telecommunications Management Programs**

Degree Offered: B.S.

**MAJOR IN TELECOMMUNICATIONS MANAGEMENT**

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.

**Major courses (54 hours):****Information Technology core (10 hours):**

- ITK 160, 168, 261.

**Professional Practice (4 hours):**

- ITK 191.
- 1 of: ITK 398, 391.

**Telecommunications Technology (27 hours):**

- ITK 254, 277, 373, 375, 377, 379.
- TEC 383.
- 2 of: ITK 353, 374, 378, 382.

**Economic, Legal, Public Policy (13 hours):**

- ECO 105, 235.
- 1 of: FIL 311, 312; POL 318.
- 1 of: MQM 221; PSY 230.

**Supporting requirements (29-30 hours):**

- Mathematics and Statistics (11-12 hours):**
  - 1 of MAT 120 or 145.
  - 1 of MAT 146 or 160.
  - 1 of: MQM 100; ECO/GEO/POL/PSY 138.
- Communication and Organization (15 hours):**
  - 1 of: ENG 249; COM 202, 227.
  - ACC 131; COM 223; FIL 185; MQM 220.
- Ethics (3 hours):**
  - PHI 234.

**KNR Minor in Physical Education – Athletic Coaching Sequence (Revision) Morgan/Bassoppo-Moyo**

Ferrence moved to suspend the “discussion one week, action the next” rule and take action on the proposal today, Morenus seconded and the committee voted unanimously to suspend the rules and vote today, pending completion of circulation on December 2, 2004. Bassoppo-Moyo moved to approve the proposal to revise the Athletic Coaching Sequence in the Minor in Physical Education, Ferrence seconded, and with no dissenting votes, the proposal was approved pending circulation. Catalog copy follows:

**MINOR IN PHYSICAL EDUCATION**

**Athletic Coaching Sequence:**

**This is a non-teaching program, not recognized as a teaching area in Illinois.**

- **24 hours in Kinesiology and Recreation required.**
- **Required courses (18 hours): KNR 205, 207, 260, 306, 320, 382.**
- **Elective courses (6 hours): KNR 210, 211, 212, 213, 214, 215, 216.**

**MAT Major in Mathematics – Actuarial Science Sequence Canabal/Craig**

Ferrence moved to suspend the “discussion one week, action the next” rule and take action on the proposal today, Morenus seconded and the committee voted unanimously to suspend the rules and vote today, pending completion of circulation on December 2, 2004. Canabal moved to approve the proposal to revise the Actuarial Science Sequence, VanDerHoven seconded, and with no dissenting votes, the proposal was approved pending circulation. Catalog copy follows:

**MAT**

**Actuarial Science Sequence:**

**This sequence of the major is designed to teach the students the mathematical foundations of actuarial science, and to prepare them for careers as actuaries in a variety of fields dealing with the risk of potential financial losses, such as life insurance, health insurance, financial risk management, property/casualty/liability insurance, pensions, or employee benefits.**

- **67 hours required.**
- **Required courses: MAT 145, 146, 147, 175, 280, 350, 351, 353, 380, 383, 384; ACC 131, 132; ITK 168; ECO 105, 240; FIL 250, 341.**
- **Submission of senior portfolio (see actuarial advisor).**
- **Students are encouraged to take MAT 298 (professional internship) MAT 283 (actuarial computing) and intensive reviews for actuarial examinations offered through the ISU Conferencing Unit.**

**Suggested Mathematics Schedules for Actuarial Science Majors:**

**Schedule (a) Students beginning with Precalculus**

**Schedule (b) Students beginning with Calculus I**

**Schedule (c) Accelerated schedule for honors students or those preparing for graduate school**

Semester	(a)	(b)	(c)
1	144	145	145
2	145	146	146

3	146	147	147, 175
4	147	175, 280	280, 350
5	175, 350	350	351, 380
6	280, 351	351, 383	383
7	353, 380	353, 380, 384	353, 384
8	383, 384	Open	Open

Required courses in the Actuarial Science Sequence (outlined above) provide the contents of the Society of Actuaries examinations P, FM, M and C, or the Casualty Actuarial Society examinations 1, 2, 3 and 4, as well as complete VEE requirements. Courses correspond to professional actuarial examinations as follows:

SOA exam P (same as CAS exam 1): MAT 350  
 SOA exam FM (same as CAS exam 2): MAT 280  
 SOA exam M: MAT 380, MT 383  
 SOA exam C (same as CAS exam 4): MAT 384  
 CAS exam 3: MAT 351, MAT 380, MAT 383  
 VEE Statistics: MAT 353  
 VEE Economics: ECO 105  
 VEE Finance: FIL 242 and FIL 341, or FIL 341 and MAT 483

#### PSY Major in Psychology (Revision)

Zintambila/Brown

Ferrence moved to suspend the “discussion one week, action the next” rule and take action on the proposal today, Morenus seconded and the committee voted unanimously to suspend the rules and vote today, pending completion of circulation on December 2, 2004. Zintambila moved to approve the proposal to revise the Major in Psychology pending verification of receipt of course proposals for PSY 326 and 391, Ferrence seconded and with no dissenting votes, the proposal was approved pending circulation and verification of the courses as stated. Catalog copy follows:

#### MAJOR IN PSYCHOLOGY

- 41 hours in Psychology required.
- Meet departmental admission criteria.
- Students who major in Psychology must complete the following courses: ENG 145; MAT 120 or 145 (which also meet Inner Core General Education requirements) or 121 or 144; 2 laboratory science courses (which can be met through Inner Core General Education requirements); a Philosophy course.
- Required courses: PSY 111, 138, 200, 231, 331, 340, 320 (or alternative below):
- Students may select one of the following options to replace PSY 320: (1) PSY 290.01 (for 3 hours) and 390 with the same faculty member, or (2) PSY 290.02 (for 3 hours) and PSY 391 with the same faculty member, (3) PSY 395 and 398 (for 3 hours) taken the same semester, or (4) IDS 395.03 (for at least 3 hours) and presenting honors thesis at annual honors symposium.
- All majors are required to take 4 courses from the following: PSY 301 (or 302 or 303) 326 (or 327), 333 (or 360), 334, 350, 361 (or 366 or 368 or 369), 363 (or 367), 364, 365.
- 9 hours of additional PSY electives (at least 3 hours of which must be taken at the 200- or 300-level) are required (10 hours are required if a 3-hour course is transferred for PSY 111).
- Students may not register for more than 15 hours of any combination of the following courses: PSY 287, 290.01, 290.02, 299, 390, 391, 398, or IDS 395.03.
- Not more than 13 hours of 100-level Psychology courses, or Psychology courses transferred from community colleges, may count toward the major.

#### 4. PROPOSAL DISCUSSION:

##### GENERAL EDUCATION PROGRAM (Revision)

Stier/Ferrence

Stier distributed handout summarizing revisions and Ferrence presented reviewers' comments:

- Modifications already made temporarily should become permanent:
  - Delete Outer-core categories “Knowing in the Disciplines” and “Disciplinary Knowledge in Cultural Contexts” that have been suspended since the inception of General Education.

- Allow students credit for cross-listed courses from department/school other than their first major without invoking the rule “no more than three semester hours of Middle and Outer Core courses from a student’s major department/school may count toward Gen Ed credit.”
- Make permanent the policy that all courses in Middle Core: Individuals in Civic Life satisfy the U.S. and Illinois Constitution graduation requirements.
- Delete requirement that students under Illinois State’s General Education Program must fulfill their Global Studies requirement in the Outer-Core. All students, native, or transfer must meet the Global Studies graduation requirement.
- Allow each major to designate one Gen Ed category to be fulfilled by virtue of disciplinary expertise acquired in the major. This is intended to be in addition to the current one-course overlap that is permitted between Gen Ed and the major and has the effect of reducing the total number of hours required in Gen Ed.
- IDS 100, Foundations of Inquiry will be deleted and replaced by revised English 101 and Communication 110, reconceived as a year-long sequence of courses with content coordinated over the two semesters and incorporating several goals from the Foundations of Inquiry course.
- Deletion of FOI necessitates changes to Middle-Core prerequisites to allow freshmen to have meaningful scheduling choices.
- Reviewers comments:
  - This is an unusual proposal for several reasons, including that it has already been approved by the Senate, it has no originating department, and it affects essentially all future ISU students in all Colleges.
  - The unusual content and impact of the proposal warranted the atypical curricular processes.
  - The merits and pitfalls of the proposal have already been discussed at length within the campus community. UCC need not rehash the issues. The Senate, by approving the proposal has indicated the merits outweigh the pitfalls. *Rosenthal indicated that the Senate approved the concept and are interested in the changes to COM 110 and ENG 101 to replace FOI. The final General Education Program revision document will go to the Senate for final approval next Tuesday.*
  - UCC’s most important contribution at this time is careful consideration of the catalog copy to insure there are no errors, omissions, or oversights.
  - This proposal appears to be carefully thought out, excellently prepared, and adequately considered by the University Community, even considering the profound impact on ISU curricula.
- Craig asked if the UCC could encourage departments/schools to reconsider changes in their curriculum if their programs were over the 124 hour limit since there are hours freed due to the changes in Gen Ed requirements.
- Rosenthal indicated that this is a good time to look at this.
- Stier said that there would be reductions in programs by default due to the changes that have been made with this proposal. Some departments/schools cannot reduce their programs further due to accreditation issues.
- Craig suggested that when the proposal is finally approved, the committee might encourage departments/schools to look at their programs that are over 124 hours.
- The General Education Program proposal will be an action item at the next UCC meeting.

Other proposals discussed (not in order of discussion):

**ECO Major in Economics (Revision)**

**Bassoppo-Moyo/Stier**

Bassoppo-Moyo distributed a handout summarizing the proposal to revise the Major in Economics.

- The new course, ECO 148 has a very strong computer-based statistics component and will gradually replace ECO 138 in the Economics program and course prerequisites.
- ECO 148 better meets the needs of the major and prepares the student for further coursework in Economics.
- There are no changes in hourly requirements in the major.
- They anticipate no new funding as a result of the proposed changes.
- Ferrence moved to suspend the “discussion one week, action the next” rule and take action on the proposal today, Morenus seconded and the committee voted unanimously to suspend the rules and vote today, pending completion of circulation on December 2, 2004. (See “Proposal Action” above).

**HSC Major in Clinical Laboratory Sciences (Revision)**

**Craig/VanDerHoven**

Craig distributed a handout summarizing proposal to revise the Major in Clinical Laboratory Sciences. Meridee VanDraska was present from Health Sciences to answer any questions.

- VanDraska said that they went through accreditation last year and this proposal is a follow through from suggestions made at that time.

- A name change is proposed for two existing tracks of study: Track 1 change to Alternative Track and Track 2 change to Standard Track.
- New courses added: HSC 263, 331, 398.21
- Course deleted: HSC 304
- Revise courses: HSC 260, 261, 262, 302, 312, 316, 317, 333, 334, 335, and 337.
- As a result of changes, CLS students will be required to take 2 less credit hours to earn their degree.
- There is no additional staffing or funding anticipated.
- Trefzger noted that the proposed catalog copy shows 30 hours required in each track, page 9 of the proposal shows 27 hours required in each. Van Draska said that 27 hours is correct. Catalog copy will be changed to the correct hours.
- Ferrence moved to suspend the “discussion one week, action the next” rule and take action on the proposal today, Morenus seconded and the committee voted unanimously to suspend the rules and vote today, pending completion of circulation on December 2, 2004. (See “Proposal Action” above).

### **ITK Major in Information Systems (Revision)**

**Van DerHoven/Zintambila**

Van DerHoven distributed a handout summarizing the proposal to revise the Major in Information Systems: Systems Development/Analyst Sequence, Web Application Development Sequence and the Minor in Information Systems and Major in Telecommunications Management. Mary Elaine Califf was present from Information Technology to answer any questions.

- Reevaluation of core courses indicated ITK 169, required for all 3 degree programs in the department, did not meet the needs of the program. Enrollment increases will now support programming courses (ITK 178, 179 and 277) tailored to each program.
- All three programs in the School of Information Technology will be affected by the changes. A few programs outside of ITK use ITK 169 as an optional course and must decide which of the replacement courses will be suitable for their students. The affected departments were not listed.
- A new course, ITK 178, is proposed that will replace ITK 169 in both sequences in Information Systems; ITK 254 will move from core to other required.
- ITK 277 replaces ITK 169 in Telecommunications Management; ITK 355 and 383 are removed from optional courses; ITK 254 moves from IT core to Telecommunications Technology required.
- ITK 178 replaces ITK 169 in the Information Systems Minor and the Information Specialist concentration will be dropped.
- Current courses will be revised: ITK 272, 277, 353 and 375.
- There is a one hour discrepancy under Systems Development/Analyst Sequence, Other ITK course requirements (catalog copy says 28 hours, should be 29 hours). Califf supplied new corrected catalog copy.
- Ferrence moved to suspend the “discussion one week, action the next” rule and take action on the proposal today, Morenus seconded and the committee voted unanimously to suspend the rules and vote today, pending completion of circulation on December 2, 2004. (See “Proposal Action” above).

### **KNR Minor in Physical Education – Athletic Coaching Sequence (Revision)**

**Morgan/Bassoppo-Moyo**

Morgan presented a review of the proposal to revise the Minor in Athletic Coaching.

- Minor increases from 23 to 24 hours, consisting of 18 required hours instead of 11 and 6 elective hours instead of the previous 12 hours of electives.
- Joyce Kief was present from Kinesiology and Recreation to answer any questions. She indicated that the program was heavy on science before and they couldn't focus the students as they wanted. These changes will better round out the minor. Three new courses have been developed: KNR 205, 214, and 216. Current KNR courses have been revised and other courses (electives) were removed from the minor, but are still an integral part of KNR).
- Morgan and Bassoppo-Moyo had no problems with the revisions.
- Ferrence moved to suspend the “discussion one week, action the next” rule and take action on the proposal today, Morenus seconded and the committee voted unanimously to suspend the rules and vote today, pending completion of circulation on December 2, 2004. (See “Proposal Action” above).

### **MAT Major in Mathematics – Actuarial Science Sequence**

**Canabal/Craig**

Canabal distributed a handout summarizing the proposal to revise the Major in Mathematics Actuarial Science Sequence. Krzysztof Ostaszewski from Mathematics was present to answer any questions.

- The system of actuarial professional certification is undergoing substantial changes effective January 1, 2005, requiring modifications in the program.
- They are aligning classes to new requirements of professional actuarial examinations.
- Changes assure that classes satisfy Validation of Education Experience (VEE).
- MAT proposes requiring a grade of “B or better” in MAT 145, 146, 280, 350 where they are prerequisites for other courses to communicate the level of scholarship expected from students.
- Ferrence asked based on past discussions of the truth in tuition concerns, does requiring having a grade of “B or better” pose any problems for students. Quane asked what happened to students who do not get 2.50 in the required courses. Ostaszewski replied that they would be advised early on to change to another MAT major. Students are sophomores/juniors when they take these courses and it would be to their advantage to know that they cannot make it in Actuarial Sciences and that they should look at finding another field. Up to MAT 350, they are taking the same courses as Statistics Majors. The department wants to make sure the students don’t get to the advanced actuarial courses if they cannot make a grade of B or better. Ferrence said that it seems to give the students a realistic look at what they need to do.
- Only two changes in proposal that affect other departments: dropping the ITK 155.01 because ITK is changing the content of the course and changing requirement from FIL 240 to FIL 341.
- Craig inquired how the students succeed in FIL 341 if they do not have FIL 240. Ostaszewski said that the actuarial students get what they need in other MAT courses they take before FIL 341. Trefzger acknowledged that the students were bored in FIL 240 because they already had covered much of the material in other coursework. Ostaszewski said that because of accreditation standards, the students are required to take intermediate finance.
- Courses to be revised: MAT 280, 350, 351, 353, 380, 383, 384, 385.
- Canabal noted that the new catalog copy says “students are encouraged to take MAT 289” where it should say MAT 298. Catalog copy will be corrected.
- Ferrence moved to suspend the “discussion one week, action the next” rule and take action on the proposal today, Morenus seconded and the committee voted unanimously to suspend the rules and vote today, pending completion of circulation on December 2, 2004. (See “Proposal Action” above).

#### **PSY Major in Psychology (Revision)**

**Zintambila/Brown**

Zintambila distributed a handout explaining the proposal to revise the Major in Psychology.

- PSY proposes changing the number of Psychology hours required from 38 to 41 which will allow them to use one hour/week for common instructional experience for all of the sections of PSY 111 that are offered. PSY 111 increases from 3 to 4 hours.
- All students will take PSY 111 in the Fall semester. This change will give a freshman experience. By having students take the class in their fall semester, they can develop a sense of cohesion currently lacking. This will also give all students a good introduction to the discipline and to the major.
- Students select 20 hours from: PSY 111, 138, 200, 231, 331, 340, and 320. Students can select one of four options to replace PSY 320.
- IDS 100 (FOI) is being dropped from an alternative to a philosophy course.
- Add PSY 326 to the menu of required courses. PSY 326 is not in catalog yet, but was previously approved.
- They propose to add PSY 391 as an option in the category from which a student can select no more than 15 hours, however 391 is not in the catalog yet and no proposal is included. Jeri will follow up with Psychology to see if there is a course proposal in the works.
- Quane said that the program will have to be hand audited.
- Ferrence moved to suspend the “discussion one week, action the next” rule and take action on the proposal today, Morenus seconded and the committee voted unanimously to suspend the rules and vote today, pending completion of circulation on December 2, 2004. (See “Proposal Action” above).

#### **SWK Major in Social Work (Revision)**

**Kossman/Morenus**

Kossman distributed a handout that explained the proposal to revise the Major in Social Work.

- SWK proposes deleting SWK 316 from the major because it has never been taught. The course was added into the SWK curriculum during a time that the University and the School of Social Work had more resources. The course was second in a series of two undergraduate research courses following SWK 315. As the course was a senior level course, it was not scheduled for first delivery until Spring 2005.
- SWK feels that their graduates are adequately prepared at the level necessary for entry level social work with SCO 275 or ECO/GEO/POL/PSY 138 and SWK 315.

- The course vacancy will be filled with an elective so the students can better individualize their interest to areas that will prepare them for practice. This would not alter the total number of hours required for the major.
- The committee wants the “one elective course with advisor approval” to be clarified. Dr. Heyl will be invited to the next meeting to respond to that request.
- This proposal will be on the next agenda as an action item.

## 5. LIAISON REPORTS:

- a. Council for General Education – Trefzger - Nothing to report at this time.
- b. Council for Teacher Education – Brown – Nothing to report at this time.
- c. Academic Affairs Committee – Ferrence met with Jim Reid of Academic Affairs for a discussion of the AAF committee meeting issues. The May 3, 2001 memo regarding Distance Education is under consideration by the Senate Standards and Academic Affairs.

## 6. INFORMATION:

The University Curriculum Committee Executive Secretary approved the following new courses:

### ECO

**148 APPLIED ECONOMIC STATISTICS 4 F, S**  
*MAT 111, 120, 130 or 145 req. May not be taken under CT/NC option. Not for cr if had ECO 138, GEO 138, POL 138, PSY 138 or MQM 100.*

Application of descriptive statistics, hypothesis testing, and regression analysis to economic data and problems. Taught in computer lab using statistical software package.

### HSC

**263 INTRODUCTION TO CLINICAL IMMUNOLOGY 3 F**  
*BSC 197 and CHE 141 req; CHE 220 rec. Lecture and lab. Materials charge optional.*

Basic principles and procedures of immunology and serology.

**331 APPLIED CLINICAL LABORATORY MANAGEMENT 1-3 F,S,Summer**  
*HSC 260, 261 and 262 or cons of inst req. Lecture in a clinical setting. May repeat max 3 hrs.*

Concentrated instruction in the fundamentals of laboratory management including regulatory, budgetary, personnel and educational issues.

### ITK

**178 COMPUTER APPLICATION PROGRAMMING 3 F,S**  
*C or better in ITK 168 or cons dept advisor req. Not for cr if had ITK 169.*

The design, development, and implementation of computer application systems, including files and GUI.

### KNR

**205 SCIENTIFIC PRINCIPLES OF COACHING 3 F**  
*Maj/min only. Soph standing req. Not for cr if had KNR 181, 240, 280, 282.*

Introduction to scientific principles that constitute the basis for sound athletic coaching practices.

**214 SOCCER COACHING 2 F,S**  
*KNR 207; soph standing req.*

Theory and techniques of coaching soccer, including philosophy, offensive and defensive skills, tactics, practice/competitive situations, administration, and management.

**216 SOFTBALL COACHING 2 F,S**  
*KNR 207; soph standing req.*

Techniques/methods of coaching softball for pre-collegiate levels including philosophies, pedagogy, strategies, tactics, practice/competitive situations, management and administration.

#### KNR

260 ATHLETIC INJURY CONCEPTS FOR COACHES 3 S  
*KNR 207 or conc reg; soph standing req.*

An introductory course for coaches, with emphasis on the prevention and care of athletic injuries.

382 LEGAL ASPECTS OF RECREATION AND KINESIOLOGY 3 F,S  
*KNR maj/min only; Sr standing req. Formerly 289.43.*

Legal principles applied to recreation and kinesiology settings, with an emphasis on risk management practices.

The University Curriculum Committee Executive Secretary approved the following revised courses:

#### HSC

260 CLINICAL IMMUNOHEMATOLOGY 3 F  
*BSC 197 and CHE 141 req. CHE 220 rec. Lecture and lab. Materials charge optional. Formerly INTRODUCTION TO THE MEDICAL LABORATORY: IMMUNOHEMATOLOGY AND SEROLOGY.*

Basic principles and procedures of immunohematology (blood banking).

261 INTRODUCTION TO CLINICAL HEMATOLOGY 3 F  
*BSC 197 and CHE 141 req; CHE rec. Lecture and lab. Materials charge optional. Formerly INTRODUCTION TO THE MEDICAL LABORATORY: HEMATOLOGY*

Basic principles of hematology and body fluid analysis.

262 INTRODUCTION TO CLINICAL CHEMISTRY 4 F  
*BSC 197 and CHE 141 req; CHE 220 rec. Lecture and lab. Materials charge optional. Formerly INTRODUCTION TO THE MEDICAL LABORATORY: APPLIED CLINICAL ANALYSIS*

Basic principles and procedures and of clinical chemistry and urinalysis.

302 INTRODUCTION TO CLINICAL BIOCHEMISTRY 3 S  
*HSC 262 or cons inst req. Formerly CLINICAL INSTRUMENTATION; and ADVANCED APPLIED CLINICAL ANALYSIS AND INSTRUMENTATION*

Theory and principles of advanced instrumentation and techniques used in reference, pharmaceutical, and biotechnology laboratories as related to disease diagnosis.

312 CLINICAL CHEMISTRY 3 S  
*HSC 262; BSC 203; MAT 120 or cons inst req. Formerly CLINICAL BIOCHEMISTRY.*

Concentrated laboratory instruction and theoretical applications of clinical biochemistry. Current testing procedures, method comparison, and quality assurance are studied.

316 CLINICAL LABORATORY SCIENCE: RESEARCH DESIGN 1 S  
*HSC 260, 261 and 262 or cons inst req. Formerly CLINICAL LABORATORY SCIENCE: SPECIAL TOPICS.*

Research design in clinical laboratory science.

317 CLINICAL HEMATOLOGY 2 S  
*HSC 261, 301 req.*

Study of blood cells under normal and stress conditions. Clinical correlation of test results and disease are emphasized.

333 APPLIED CLINICAL IMMUNOLOGY 1-6 F,S,Summer  
*HSC 260 and 308 req. Lecture and lab in a clinical setting. Formerly APPLIED CLINICAL SEROLOGY AND IMMUNOLOGY*

Concentrated laboratory instruction in clinical serology and immunology. Current testing procedures, instrumentation and quality assurance are studied.

334 APPLIED CLINICAL URINALYSIS 1-3 F,S,Summer  
*HSC 262 req. Clinical lab only.*

Concentrated laboratory instruction in routine and special urinalysis procedures.  
 HSC

335 APPLIED SPECIAL MICROBIOLOGY 2 F,S,Summer  
*HSC 308 req. Lecture and lab in a clinical setting. Formerly APPLIED CLINICAL  
 PARASITOLOGY AND MYCOLOGY.*

Concentrated laboratory instruction in the identification of significant pathogens requiring unique  
 identification methods. May include virology, parasitology or mycology.

337 APPLIED CLINICAL HEMATOLOGY 1-6 F,S,Summer  
*HSC 261 and 301 req. Lecture and lab in a clinical setting. Formerly HSC 367 CLINICAL  
 HEMATOLOGY.*

Concentrated laboratory instruction in clinical hematology and coagulation. Current testing procedures,  
 instrumentation and quality assurance are studied.

#### ITK

272 COBOL AS A SECOND LANGUAGE 4 F,S  
*C or better in ITK 178 req. Not for cr if had ACC 366. Maj/min only or cons dept advisor req.*

COBOL language for students with substantial programming experience in another language.  
 Emphasizes structured problem-solving and programming.

277 PROGRAMMING FOR TELECOMMUNICATIONS 3 F,S  
*C or better in ITK 168 or cons dept advisor req. Formerly ITK 355 MICROCOMPUTER  
 APPLICATION AND DESIGN*

Network programming based on TCP/IP and other communications protocols. Emphasis is on multi-tier  
 and collaborative applications.

353 WEB DEVELOPMENT TECHNOLOGIES 3 F  
*C or better in ITK (178, 179 or 277) and 261 req. Maj/min only or cons dept advisor req.*

Web concepts, infrastructure, development technologies, multi-tiered program design and  
 implementation, and current issues and trends.

375 DATA COMMUNICATIONS 3 F,S  
*C or better in ITK (178, 179 or 277) and (254 or 225) req. Maj/min only or cons dept advisor req.*

Hardware and software used in data communications and networking. Network types, architectures,  
 protocols and standards. Local area and packet networks.

#### KNR

207 FOUNDATIONS FOR SUCCESSFUL COACHING 3 F,S  
*KNR 205 or conc reg req. Soph standing req. Formerly THE COACH IN ORGANIZED  
 SPORTS AND ATHLETICS.*

Theory and applications of coaching concepts for the interscholastic and youth sport coach. Coaching  
 certification available.

210 BASEBALL COACHING 2 F,S  
*KNR 207 req. Soph standing req.*

Theories and strategies for coaching baseball, including philosophy, history, planning scorekeeping,  
 offensive and defensive strategies, and evaluating players and programs.

211 BASKETBALL COACHING 2 F,S  
*KNR 207 req. Soph standing req.*

A course for professional preparation of coaches for basketball, including philosophy, techniques,  
 scouting reports and tactics of the game.

212 FOOTBALL COACHING 2 F,S  
*KNR 207 req. Soph standing req.*

Theory and techniques of basic offensive and defensive football, including history, development of trends, and modern innovations.

213 TRACK AND FIELD COACHING 2 S  
*KNR 207 req. Soph standing req.*

Techniques/methods of coaching track/field, including philosophy, pedagogy, event training, skill analysis, conditioning, practice organization, competition, and meet administration.

215 VOLLEYBALL COACHING 2 F,S  
*KNR 207 req. Soph standing req.*

Techniques/methods of coaching volleyball for pre-collegiate levels, including philosophies, pedagogy, strategies, tactics, practice/competitive situations, administration, management and public relations.

306 PSYCHOLOGY OF SPORT 3 F  
*Maj/min only or cons inst req.*

Psychological principles and concepts applied to sport situations and to individuals involved with sport activities.

320 DEVELOPMENT ASPECTS OF YOUTH SPORT 3 S  
*Maj/min only or cons inst req.*

Effects of sport and competitive activities on the biophysical and psychosocial development of young people.

#### MAT

280 FINANCIAL MATHEMATICS 4 F,S  
*B or better in MAT 145 and 146 or cons inst req. Formerly THEORY OF INTEREST.*

Interest rates. Accumulation function. Annuities. Amortization schedules. Bonds and other securities. Amortization and depreciation. Yield curve. Duration, convexity, and immunization.

350 APPLIED PROBABILITY MODELS 4 F,S  
*C or better in MAT 147 req. Formerly MATHEMATICAL STATISTICS I.*

Sample spaces, discrete and continuous random variables, probability functions, density, moment generating functions, important distributions. Multivariate distributions, Central Limit Theorem.

351 STATISTICS AND DATA ANALYSIS 4 F,S  
*C or better in MAT 350 req or cons of instr. Formerly MATHEMATICAL STATISTICS II.*

Statistical estimation. Point and interval estimators. Consistency, unbiasedness, minimum variance. Hypothesis testing. Likelihood ratio tests. Regression, analysis of variance.

353 REGRESSION AND TIME SERIES ANALYSIS 4 F,S  
*MAT 351 or equiv or cons inst req. Also offered as ECO 353. Formerly ANALYSIS OF TIME SERIES.*

Regression and time series methods for business and economic applications, including exponential smoothing and Box-Jenkins methods. Computer statistical package used.

380 ACTUARIAL MODELS I 4 F,S  
*B or better in MAT 280 and 350 or cons inst req. Formerly INTRODUCTION TO LIFE CONTINGENCIES.*

Survival distributions, life tables. Life insurance, life annuities and pensions. Premiums and reserves. Multiple lives. Multiple decrements. Models including expenses.

383 ACTUARIAL MODELS II 4 F,S  
*B or better in MAT 280 and 350 or cons inst req. Formerly CREDIBILITY THEORY AND LOSS DISTRIBUTIONS.*

Frequency, severity, and loss distributions. Aggregate loss. Poisson process, surplus process, Markov chains. Ruin theory. Stochastic interest rates. Arbitrage-free models.

384 ACTUARIAL MODELING 4 F,S

*C or better in MAT 351 and 383 or cons inst req.*

Survival models estimation, both parametric and nonparametric. Estimation of loss distributions, frequency or severity models. Credibility theory. Actuarial communication.

**MAT**

**385 ACTUARIAL EXAM PREPARATION 1 F,S**

*Cons inst req. Not for cr maj/min. MAT 385 not for cr if had MAT 147.*

Study sessions to aid preparation for professional actuarial examinations. Consult the Class Registration Directory or the actuarial adviser for the topics/sections to be offered during any given semester.

The University Curriculum Committee Executive Secretary approved editorial changes to the following courses:

**ECO**

*(prereqs)*

**238 USING ECONOMETRICS 4 F or S**

*ECO 101 and 102, or 105 req; ECO/GEO/POL/PSY 138 or ECO 148 req.*

Non-theoretical study of the basic concepts of econometrics and, in particular, regression analysis, which emphasizes real-world applications, statistical computing, and learning-by-doing.

*(prereqs)*

**239 MANAGERIAL ECONOMICS 3 F or S**

*ECO 101 or 105 req; MAT 121 or 145; and ECO/GEO/ POL/ PSY 138 or ECO 148 rec.*

Theoretical and applied study of demand, cost, and production related to the theory of the firm. Developments of current interest; empirical studies intended to affirm or disaffirm applicability of economic principles.

*(prereqs)*

**240 INTERMEDIATE MICROECONOMIC THEORY 3 F,S**

*ECO 101 or 102, or 105; ECO/GEO/POL/PSY 138 or ECO 148 or MQM 100; and MAT 121 or 145 req.*

Emphasis on topics regarding resource allocation, scarcity, and distribution of income; theory of consumer choice, theory of the firm, market structures, factor markets, distribution of income, welfare economics, and general equilibrium.

*(prereqs)*

**241 INTERMEDIATE MACROECONOMIC THEORY 3 F,S**

*ECO 101 and 102, or 105; ECO/GEO/POL/PSY 138 or ECO 148 or MQM 100; and MAT 121 or 145 req.*

Theory of income, employment, interest rate and price level determination. The government's influence on these variables via monetary and fiscal policies.

*(prereqs)*

**331 INTERMEDIATE ECONOMIC STATISTICS 3 F**

*ECO 101 and 102, or 105; ECO/GEO/POL/PSY 138 or ECO 148; and MAT 121 or 145 req.*

Intermediate level probability and sampling theory. Hypothesis testing. Estimation. Basic econometric principles. Use of common regression packages such as SPSS.

The University Curriculum Committee Executive Secretary approved deletion of the following courses:

**HSC**

**304 CLINICAL URINALYSIS AND BODY FLUID 2 Summer**

The meeting adjourned at 5:00 p.m. The next meeting will be Wednesday, at 3:05 p.m.

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*Respectfully submitted by*

*Jeri Ryburn*

*UCC Secretary and Editorial Assistant of the Undergraduate Catalog*

*109 Moulton Hall, 2202 Office of the University Registrar*

