

UNIVERSITY CURRICULUM COMMITTEE

Minutes #3 approved (2010-2012 Undergraduate Catalog)
September 23, 2009

Members Present: Cook, Kaesberg, Kopsell, Lessoff, Lopez, Morenus, Murphy, Rosenthal, Smudde, Standard, Trefzger, Weilbacher

Members Absent: Dean, Kukla, Radhakrishnan, Walker

Guests Present: Jess Ray, University Registrar

1. **CONVENED:** Morenus convened the meeting at 3:05 p.m.
2. **APPROVAL OF MINUTES: #2, September 9, 2009.** Smudde moved to approve the minutes with a correction, Kaesberg seconded. The committee approved the minutes as corrected, with one member abstaining.
3. **PROPOSAL ACTION:**

AGR MINOR IN AGRICULTURE (Revise)

(Kaesberg/Lopez)

Kaesberg moved to approve the proposal to revise the Minor in Agriculture, Lopez seconded and the committee voted unanimously to approve the proposal. Catalog copy follows:

MINOR IN AGRICULTURE

- 24 hours in Agriculture required.
- Required courses: AGR 109, two 100-level Agriculture courses.

AGR AGRICULTURE EDUCATION SEQUENCE (Revise)

(Lessoff/Smudde)

Lessoff moved to approve the proposal to revise the Agriculture Education Sequence, Smudde seconded, and the committee voted unanimously to approve the proposal. Catalog copy follows:

Agriculture Education Sequence:

All Agriculture Education students planning to become certified teachers must apply for and be admitted to the University Professional Studies program (see Professional Studies Admission-Retention program section of this Undergraduate Catalog). A cumulative 2.50 GPA and 2.50 GPA in the major are required for admission and retention in the sequence. Students are encouraged to consider a second certification in an academic area such as Biological Sciences, Chemistry or Mathematics.

- 55 hours in Agriculture required.
- Required Agriculture courses: AGR 109, 110, 120, 130, 150, 157, 170, 190, 205, 214, 231, 275, 295, 394, 395. (46 hours)
- Additional required courses: BSC 196 or 197 (196 preferred); CHE 110 and 112, or 140. (8-9 hours)
- Professional Education requirements: EAF 228 or 231 or 235; PSY 215; C&I 212, 214, and 216. (14 hours)
- A minimum of 100 clock hours of approved pre-student teaching clinical experiences; and Student Teaching 399 (10 hours). All Professional Education courses must be passed with a grade of C or higher. Program leads to certification: Secondary 6-12.

BSC TEACHER CERTIFICATION SEQUENCE IN BIOLOGICAL SCIENCES MAJOR (Revise)

(Trefzger/Walker)

Trefzger moved to approve the proposal to revise the Teacher Certification Sequence in the Major in Biological Sciences, Cook seconded, and the committee voted unanimously to approve the proposal. Catalog copy follows:

BSC

Teacher Certification Sequence:

Students pursuing a Biological Sciences major may be certified to teach high school science.

Before being admitted to the University Professional Studies program (see University-Wide Teacher Education program requirements in this Undergraduate Catalog), the Biological Sciences major must meet departmental requirements for admission. Students should see the departmental Teacher Education advisor for information.

Consult the Teacher Education advisor for updated requirements.

- 40 hours in Biological Sciences required.
 - Required core courses (*denotes laboratory courses): BSC 161, 196*, 197*, 201*, 203, 219, 231*, 297, 302 and 307.
 - 13 hours of electives are required, including two courses with laboratories.
 - Students must receive a C or better in required BSC core courses.
 - Required non-core courses: CHE 140, 141 and either CHE 220 or CHE 230/231; GEO 102 or 202; PHY 105 or 108; MAT 120 or 145; ECO 138, or GEO 138, or POL 138 or PSY 138.
 - BSC 202 and Biological Science courses below 182 may not be used in the major.
 - A minimum of 12 hours in Biological Science courses must be completed at Illinois State University.
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LAN TEACHER CERTIFICATION SEQUENCE IN THE MAJOR IN GERMAN (Revise)

(Radhakrishnan/Kopsell)

At last week's meeting (September 9), the reviewers asked for corrections to the proposal to revise the Teacher Certification Sequence in the Major in German. James Van der Laan offered to make the changes, which were received today. Morenus tabled the proposal to allow the reviewers time to look at the proposal again.

LAN TEACHER CERTIFICATION SEQUENCE IN THE MAJOR IN SPANISH (Revise)

(Murphy/Kukla)

Murphy presented a brief summary of last week's review of the proposal to revise the Teacher Certification Sequence in the Major in Spanish. There was a question about hours. Rosenthal verified the hours with the department and the catalog copy was correct as it was originally proposed (45 and 41). With no further issues, Murphy moved to approve, Cook seconded, and the committee voted unanimously to approve the proposal. Catalog copy follows:

Teacher Certification Sequence:

- Part of entitlement program leading to K-12 (Type 10) certification.
 - A minimum of 40 hours and a maximum of 49 hours in Spanish required. The number of hours required for the Major in Spanish for Teacher Certification depends upon the level at which a student begins the program. Students with no previous study in Spanish begin the language with SPA 111 and must complete 49 hours. Students with 2 years of high school Spanish (or equivalent) normally begin with SPA 112 and must complete 45 hours beyond SPA 111. Students with 3 years of high school Spanish (or equivalent) normally begin with SPA 115 and must complete 41 hours beyond SPA 111 and SPA 112.
 - Required courses: SPA 115, 116 or 120, 213, 215, 223, 233, 243, 244; LAN 319, 320; plus sufficient electives to meet the total hour requirement previously indicated (2 of the 3 possible electives must be at the 300 level).
 - Recommended electives: SPA 214, 305, 310, 311, 323, 324, 325, 360 (214 will not count for credit if the ACTFL speaking score is Advanced); LAN 321.
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TEC ENGINEERING TECHNOLOGY SEQUENCE (Revise) (Dean/Standard)

Standard presented a brief summary of last week's discussion of the proposal to revise the recently renamed Engineering Technology Sequence, formerly titled Integrated Manufacturing Systems Sequence. Ryburn reported that the corrections requested at the last meeting have been received. Standard moved to approve, Murphy seconded, and the committee voted unanimously to approve the proposal. Catalog copy follows:

Engineering Technology Sequence:

Engineering Technology is an interdisciplinary curriculum that provides experiences in the following areas: Automation, Product Design, Process Control, Plastic Materials, Quality Management, or Technical Project Management. The goal of the sequence 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.
- 13 hours in Industrial Technology core: TEC 100, 270, 313, 330; HSC 271.
- 33 hours of required sequence courses: TEC 111, 116, 130, 216, 233, 240, 263, 285, 292, 320, and 392.
- 12 hours minimum of sequence elective courses selected from the following: TEC 234, 244, 316, 345, 370 and 398 (3 hours only); ACC 131 and ECO 105. Students should see the department advisor for specific course recommendations.

**TEC CONSTRUCTION MANAGEMENT SEQUENCE (Revise) (Kaesberg/Weilbacher)
 INDUSTRIAL COMPUTER SYSTEMS SEQUENCE (Revise)
 MINOR IN INDUSTRIAL TECHNOLOGY (Revise)**

Kaesberg presented a brief summary of last week's discussion of the Department of Technology proposal to revise the Construction Management Sequence, the Industrial Computer Systems Sequence and the addition of two electives to the Minor in Industrial Technology. Kaesberg moved to approve the proposal as a whole, Weilbacher seconded, and the committee voted to approve the proposal. Catalog copy follows:

Construction Management Sequence:

Construction Management is an interdisciplinary curriculum that provides a background in construction administration, construction technology, architectural and engineering principles, applied science, and mathematics. The goal of the sequence is to prepare construction professionals capable of managing projects to completion from plans prepared by design professionals. Course work emphasizes the allocation of labor, equipment, and material to construction projects in order to achieve completion at maximum efficiency of time and cost. The program focus is on production and management capabilities. The Construction Management sequence is accredited by the American Council on Construction Education (ACCE). Graduates are prepared to assume leadership positions in residential, commercial and specialty construction. Initial employment may include: field supervision, project management, estimating, and scheduling. Positions are also available in related areas such as code enforcement, construction financing, product sales, quality control, and safety management.

- 91 hours required.
- 20 hours in General Education: MQM 100; PSY 110; CHE 102; MAT 120; PHY 105; and 3 hours from one of the following: CHE 204; GEO 202, 207; or PHY 207.
- 10 hours in Industrial Technology core: TEC 100, 270, 313; HSC 272.
- 42 hours of required sequence courses: TEC 117, 120, 121, 123, 222, 223, 224, 226, 229, 292, 322, 325, 326, 327, and 394.
- 6 hours of sequence elective courses selected from the following: TEC 111, 217, 225, 240, 328, 329,

- **398 (3 hours); GEO 370.**
- **10 hours from the College of Business and Department of Economics including: ACC 131; ECO 105; and FIL 185.**
- **3 hours of sequence management electives from the following: HSC 385; MKT 230; TEC 320, 330, 370.**

Industrial Computer Systems Sequence:

Industrial Computer Systems is an interdisciplinary curriculum that provides a background in computer technology, software, programming, information imaging, and other industry-related technologies. The goal of the sequence is to prepare professionals for the management and supervision of technical computer systems in industrial settings. Course work emphasizes the use of computer systems to provide students with a diverse technical and professional background in communications, networking, interfacing, and electronic principles related to industrial computer systems.

- **78 hours required.**
- **17 hours in General Education: MQM 100; PSY 110; CHE 102; MAT 120; PHY 105.**
- **13 hours in Industrial Technology core: TEC 100, 270, 313, 330; HSC 385.**
- **36 hours of required sequence courses: ITK 168; MAT 108; TEC 143, 151, 243, 244, 245, 283, 284, 319, 383, and 390.**
- **12 hours of additional courses selected from the following: ITK 254; TEC 116, 117, 150, 216, 217, 240, 250, 263, 317, 318, 320, 345, 348, 352, 370, 398 (3 hours).**

MINOR IN INDUSTRIAL TECHNOLOGY

- **21 hours required through advisement.**
- **6 of the 21 hours required must be upper level coursework.**
- **No more than 9 hours from the Industrial Technology major program of study may be applied to the minor.**
- **Courses must be chosen from the following list: TEC 111, 116, 117, 120, 121, 123, 130, 143, 150, 151, 152, 211, 212, 216, 217, 222, 223, 224, 225, 226, 229, 233, 234, 240, 243, 244, 245, 250, 253, 257, 263, 270, 283, 284, 285, 292, 313, 315, 317, 318, 319, 320, 322, 325, 326, 327, 328, 329, 330, 345, 348, 350, 351, 352, 353, 354, 356, 358, 383, 384, 390, 392, 394; and HSC 271 or 272 or 385.**

4. LIAISON REPORTS:

- a. **Council on General Education:** Weilbacher reported that CGE is reviewing the IDS Minor in Ethnic Studies proposal and it looks strong. CGE will be looking at the General Education process at the next meeting.
- b. **Council for Teacher Education:** Morenus reported that the CTE curriculum subcommittee did not meet this week.
- c. **Academic Affairs Committee:** Lessoff reported that AAF had an organizational meeting last week. One of the issues they will be discussing this year is textbook expense. Rosenthal also attended the meeting and reported that AAF was looking at policies that would affect curriculum: CLEP exams, and the Constitution Exam. Rosenthal said that Academic Affairs asked him to contact Legal Counsel to gain their opinion on the issue of removing the Constitution Exam requirement.

5. STAFF REPORT:

UCC Policies & Procedures (guidelines) – Copies of the revised document were distributed for the committee to review for possible approval at the next meeting.

Online Proposal Process Update - Ryburn reported on the status of the new online process. Feedback from departments who have used the new proposals has been positive. There are many proposals online that will be coming to UCC within the next few weeks.

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

New Courses:

TEC

117 CONSTRUCTION GRAPHICS

3 sem. hrs.

Studies in graphical representation of architectural and construction ideas. Emphasis on sketching, spatial visualization, and computer-aided drafting methods. Lecture and lab. Materials charge optional. Not for credit if had TEC 110, 211. Prerequisites: Major/minor only or consent of instructor.

217 BUILDING INFORMATION MODELING

3 sem. hrs.

Using building information modeling systems to design and document architectural and construction ideas. Emphasis on modeling, annotating, and document creation. Lecture and lab. Materials charge optional. Prerequisites: TEC 117. Major/minor only or consent of instructor.

316 COMPUTER-AIDED PRODUCT DESIGN

3 sem. hrs.

Development of advanced skill in the use of parametric and associative design methods through product design and prototype development projects. Lecture and lab. Materials charge optional. Not for credit if had TEC 315 or TEC 318. Prerequisite: TEC 216.

Revised Courses:

ITK

(title, prerequisites, content, Gen Ed designation)

140 INTERACTING IN A DIGITAL WORLD

OC-SMT

3 sem. hrs.

This course provides foundation concepts of computers and information technologies and their application in today's world. Not for credit ITK major/minor. Formerly *INTRODUCTION TO THE COMPUTER WORLD*. Prerequisites: Inner Core: ENG 101; COM 110.

TEC

(title, content)

116 INTRODUCTION TO TECHNICAL DRAWING AND CONSTRAINT-BASED SOLID MODELING

3 sem. hrs.

Introduction to technical drawing with emphasis on Computer Aided Design (CAD) constraint-based solid modeling, sketching, and basic blueprint reading. Lecture and lab. Materials charge optional. Formerly *TECHNICAL DRAWING*.

(title, content)

216 CONSTRAINT-BASED SOLID MODELING AND PRODUCTION DRAWINGS

3 sem. hrs.

Intermediate course focusing on constraint-based solid modeling, technical drawing practices, and blueprint/tolerance interpretation. Lecture and lab. Materials charge optional. Formerly *COMPUTER-AIDED DESIGN AND DRAFTING*. Prerequisite: TEC 116.

(prerequisites)

229 COST ESTIMATING AND PROJECT PLANNING

3 sem. hrs.

Integrated approach to the fundamentals of construction cost estimating, project planning, and scheduling. Lecture and lab. Prerequisites: TEC 117 and 123; MAT 120. Major/minor only or consent of instructor..

TEC

(prerequisites)

317 COMPUTER-AIDED RENDERING AND ANIMATION

3 sem. hrs.

Using computer systems to create renderings and animated presentations of design ideas in an industrial or architectural setting. Lecture and lab. Prerequisites: TEC 116 or 217. Major/minor only or consent instructor.

Deleted Courses:

TEC

110 INTRODUCTION TO MICROCAD

1 sem. hr.

Computer-assisted drawing using microCAD software to introduce basic command usage and procedures for graphic representation and drawing creation. Lecture and lab. Materials charge optional. Not for credit Major/minor.

211 ARCHITECTURAL DRAFTING

3 sem. hrs.

Problem approach to architecture; emphasis on residential planning and construction. Laboratory devoted to development of working drawings. Lecture and lab. Materials charge optional. Prerequisites: TEC 110 or 116.

212 MECHANISM DESIGN

3 sem. hrs.

Applied kinematic design analysis and techniques common to the design of mechanisms using analytical and graphical methods. Lecture and lab. Materials charge optional. Prerequisite: TEC 116.

315 COMPUTER-AIDED DESIGN FOR MANUFACTURABILITY

3 sem. hrs.

Design decisions and product manufacturability interaction, concurrent engineering tools, database development, applications in electromechanical design, FMS, etc. Lecture and lab. Prerequisites: TEC 130 and 216.

318 PRODUCT MODELING AND ANALYSIS

3 sem. hrs.

Surface and solid modeling of parts and assemblies; parametric/associative design; mass properties analysis; interfacing to manufacturing and analysis programs. Lecture and lab. Prerequisites: TEC 216. Major/minor only or consent department advisor.

7. **ADJOURNED:** Murphy moved to adjourn the meeting, Lopez seconded. The meeting was adjourned at 3:50 p.m. The UCC will meet again on September 30, 2009.