

COLLEGE OF AGRICULTURE

2005-2007

I. SIGNIFICANT TRENDS

The most notable trends in curricular advancement in the college involves the continued work to consolidate administrative units, share resources, and improve efficiencies in response to tighter budgets. For example, Microbiology is now administered jointly by Plant Pathology and Animal Science. Zoology designated courses at the undergraduate level are no longer listed as such. Graduate course designators in Zoology remain unchanged. Work is underway to merge two technology majors – Agriculture Systems Technology and Industrial Technology into one program administered in the College of Agriculture. One program has been eliminated because of low enrollment (Plant Health and Protection).

The College of Agriculture has for the two catalogs previous required an emphasis of its students in the study of ethics. Noting that the embedded list has grown large without sufficient documentation of student learning, the College of Agriculture has initiated the development of a more standardized introduction of the principles of ethical argument and critical thinking to begin fall, 2005. This will enable more careful outcomes assessment, and also allow programs to build on a common knowledge base with examination of critical issues of controversy important to each discipline. The change will allow more effective baseline identification of students' abilities and as such enable more effective curriculum change based on outcomes assessment.

The College of Agriculture has been an active participant in *ISUComm* programming and is experienced in offering across-the-curriculum learning experiences for students. Continued support for the changes in *ISUComm* is widely and favorably anticipated by College of Agriculture faculty and staff.

II. CURRICULA, MAJORS, MINORS ADDED OR DROPPED

Dropped from COA

Majors: Plant Health and Protection

VIII. SUMMARY OF CHANGES

	New	Dropped	Number	Credit	Title
Agricultural Education and Studies	3	3	0	0	0
Agricultural Systems Technology	4	7	2	2	1
Agronomy	1	5	0	13	5
Animal Ecology	1	3	16	4	10
Animal Science	7	6	2	2	3
Entomology	1	3	0	0	0
Forestry	1	2	2	3	7
Horticulture	6	2	0	6	6
Industrial Technology	1	4	0	0	0
Microbiology	9	2	3	1	2
Natural Resource Ecology and Management	1	1	1	1	0
Pest Management	0	0	1	0	1
Plant Health and Protection	0	5	0	0	0
Plant Pathology	0	3	1	1	1
Total	35	46	28	33	36

COLLEGE OF BUSINESS

2005-2007

I. SIGNIFICANT TRENDS:

Two significant trends and changes are observed. The first is the adoption of the Supply Chain Management concept. The undergraduate majors “Transportation and Logistics” and “Production/Operations Management” have changed their names to “Logistics and Supply Chain Management” and “Operations and Supply Chain Management”, respectively. Further, at the graduate level, an MBA specialization in “Manufacturing and Quality” has changed its name to “Supply Chain Management”. Several new undergraduate and graduate courses in Supply Chain Management have been added to the catalog to reflect these changes. These changes are in line with the trends of other universities (more and more universities are developing programs in Supply Chain Management both at undergraduate and graduate levels). The second is the participation of the College in two inter-disciplinary graduate programs: Ph.D. program in Human Computer Interaction and the concurrent BS/MBA degree program with the College of Engineering. The College has added a few new MIS (Management Information Systems) courses at the graduate level to strengthen its graduate education in Information Systems.

II. CURRICULA, MAJORS, MINORS ADDED OR DROPPED:

Name change: Undergraduate major in Transportation and Logistics to Logistics and Supply Chain Management

Name change: Undergraduate major in Production/Operations Management to Operations and Supply Chain Management

VIII. SUMMARY OF CHANGES:

	New	Dropped	Number	Credit	Title
Accounting	1	1	0	0	0
Business Administration	1	0	0	0	0
Finance	0	1	0	0	0
Management	2	2	0	0	0
Management Information Systems	3	0	0	0	0
Marketing	1	0	0	0	0
Operations and Supply Chain Management	1	3	0	1	3
Logistics and Supply Chain Management	3	1	1	0	4
Total	12	8	1	1	7

COLLEGE OF DESIGN

2005-2007

I. SIGNIFICANT TRENDS:

In the Spring of 2003 the faculty of the College of Design decided to establish a new first-year Core Curriculum which all students entering the College must take in common. The Core Curriculum is now in its second year of experimental activity. This major change required not only the establishment of new first-year courses (Dsn S 102, 131, 183), but many other adjustments in the curricula of the various programs, reflected in the new courses, dropped courses, and course changes listed below. In addition to the adjustments brought about by the Core Curriculum, the Architecture Department has revised its graduate offerings in response to changes in national standards and recommendations for accreditation. The Department of Community and Regional Planning has also undertaken important changes in its curriculum as a result of new faculty and a new emphasis on the use of GIS technology.

II. CURRICULA, MAJORS, MINORS, ADDED OR DROPPED:

VIII. SUMMARY OF CHANGES:

	New	Dropped	Number	Credit	Title
Architecture	6	9	0	3	2
Art and Design	0	4	1	0	0
Art Graphic Design	2	2	1	2	0
Art History	2	1	0	0	0
Art Integrated Studio Arts	7	5	4	0	4
Art Interior Design	4	0	5	6	7
Community and Regional Planning	8	6	1	1	8
Design Studies	3	0	0	0	5
Landscape Architecture	0	5	1	1	1
Total	32	32	13	13	27

COLLEGE OF EDUCATION

2005-2007

I. SIGNIFICANT TRENDS:

Overall: The most noteworthy catalog changes for the **College of Education** are the transformation of the Department of Industrial Education and Technology into a program within the Department of Agricultural and Biosystems Engineering, dropping the Sport Management option from the undergraduate major of the Department of Health and Human Performance, and the extensive re-vamping of the catalog materials for the University Teacher Education Program.

Curriculum and Instruction: Significant changes made to the curriculum and/or courses affected two content areas in the Department of Curriculum and Instruction. The first group of changes is in the area of special education. The changes align our program with the State requirements for a new special education endorsement. The second group of changes allows students with bachelor degree in science, or a closely related area, to complete a M.A.T. in Science Education and also qualify for a teaching license.

Educational Leadership and Policy Studies (ELPS) continues to offer graduate studies and experiences for preparation of leaders in a variety of educational settings as well as public and private organizations. Thus ELPS maintains a curriculum that embodies the land grant mission of teaching, research and service, benefiting Iowa and impacting the nation.

Health and Human Performance: An extensive revision of the undergraduate curriculum was completed and presented in the 2003-05 catalog. The faculty initiated an assessment of the student learning outcomes and curriculum to be completed in 2006. This timeframe was selected to coincide with the first class of graduates under the new catalog. Therefore very few changes were suggested and approved for this catalog.

The one significant change is the elimination of the Sport Management Option, which is neither a major nor a minor in the curriculum. In addition, several graduate and undergraduate elective courses that appeared on the list of courses that have not been taught were deleted from the 2005-07 catalog. The prefix for graduate courses was changed to HHP from ExSp. Our plan is to change the prefix for undergraduate courses to HHP in the 2007-09 catalog.

University Teacher Education Program: Compared to the 2003-05 catalog, the materials in the 05-07 catalog are reorganized, reformatted and contain a good deal of new information to describe undergraduate, post-bachelor's and graduate licensure programs. We have publicly identified, for the first time in one catalog location, the faculty involved in this program. These faculty five colleges and serve approximately 1500 students across the endorsement areas.

II. CURRICULA, MAJORS, MINORS ADDED OR DROPPED:

Added:

Masters of Arts in Teaching, in Science Education

Dropped:

Majors: Industrial Technology—Options: Manufacturing, Occupational Safety (moved to Dept of ABE).

Minor: Industrial Technology (moved to Dept of ABE)

VIII. SUMMARY OF CHANGES:

	<u>New</u>	<u>Dropped</u>	<u>Number</u>	<u>Credit</u>	<u>Title</u>
Counselor Education	0	9	0	0	0
Curriculum and Instruction	10	10	0	3	4

Dance	0	2	0	0	0
Educational Administration	1	2	0	1	8
Exercise and Sport Science	4	21	1	0	2
Health Studies	0	1	0	0	0
Higher Education	0	1	0	0	0
Historical, Philosophical, and Comparative Studies in Education	1	3	0	0	0
Special Education	5	14	0	1	9
Total	21	63	1	5	23

COLLEGE OF ENGINEERING

2005-2007

I. SIGNIFICANT TRENDS:

General

The college of Engineering has continued to support learning communities and has added several courses to support freshmen learning communities. The college continues to work toward ABET accreditation visit in 2006. The college has also increased integration and cooperation among departments within the college and has increased involvement in interdisciplinary activities, including degree programs. Highlights from each department are listed below.

Aerospace & EM

EM Program:

- Nine course descriptions are changed so that the course objectives are clear and focused

AerE Program:

- NDE Minor description included in the UG program material

Agricultural

- As part of the implementation of e-portfolios for all AE students, a sophomore seminar (AE 210) and a junior seminar (AE 301) are being added to the curriculum. Portfolio development as well as ethics and professionalism, will be addressed.
- Curriculum option areas have been reduced from four to three: Agricultural and Environmental Systems Engineering, Power and Machinery Engineering, and Biosystems and Food Engineering. This third option combines the previous Food and Process Engineering, and the Biosystems Engineering options, which had some similarities in content.

Chemical

- All Chemical Engineering students are now required to have biochemistry.
- The pilot laboratory modules on Biorenewables that we developed under the NSF CRCRD program is transitioning into an undergraduate laboratory that can replace one of our senior labs, as planned in our original proposal.
- Offering more biological engineering courses at the graduate level, in response to graduate surveys as well as more accurately reflecting the placement of our graduate students. Thus, we reviewed the several biological engineering courses that we have taught for several years and reformulated them to satisfy both undergraduate and graduate student constituencies.

Civil Construction and Environmental

Environmental Engineering

- A certificate program in environmental engineering has been added
- Course descriptions have been modified to reflect changes in the environmental field

Construction Engineering:

- Began learning community
- Increased options for students on Engineering topics

Electrical & Computer

- Electrical and computer engineering has made changes to the objectives statement in the catalog.
- The department continues to become involved in interdepartmental programs.

Industrial

- Part of the joint BSIE/MBA program for undergraduate students pursuing greater emphasis on management.
- State of the art regular graduate courses in the areas of enterprise computing, human computer interaction, and virtual reality.

Material Science

- The MSE Dept. has approved a broader category of electives for the materials engineering major, moving from a social science and humanities electives requirement to general education. This will allow students to take non-engineering courses of an introductory nature to meet degree requirements.

- With the addition of Mat E 391 and 392, students majoring in materials engineering or other curricula requiring a materials course may meet this requirement in a summer study abroad at Brunel College in England. Mat E 391 will meet the diversity requirement, and 392 will meet the international perspectives requirement.

Mechanical

- Several courses were co- and cross-listed with other departments to benefit students and faculty in both departments.

II. CURRICULA, MAJORS, MINORS ADDED OR DROPPED:

VIII. SUMMARY OF

	New	Dropped	Number	Credit	Title
Aerospace Engineering	4	4	1	7	6
Agricultural Engineering	3	3	7	10	4
Chemical Engineering	5	8	2	10	0
Civil Engineering	5	4	1	1	2
Computer Engineering	6	5	2	6	4
Construction Engineering	2	1	0	6	0
Electrical Engineering	4	4	2	16	6
Engineering	1	0	0	0	0
Engineering Mechanics	0	1	0	0	0
Industrial Engineering	7	2	0	8	1
Materials Engineering	2	1	0	5	3
Materials Science and Engineering	0	2	0	1	0
Mechanical Engineering	1	5	0	6	4
Total	40	40	15	76	30

COLLEGE OF FAMILY AND CONSUMER SCIENCES

2005-2007

I. SIGNIFICANT TRENDS

The College of Family and Consumer Sciences continues to implement the college core adopted in the last catalog. Faculty in the College have worked with the Helen LeBaron Hilton Endowed Chair and ISUComm personnel to infuse Critical Thinking and Communication Skills, respectively, across the curriculum. Faculty are increasingly using outcomes-based assessment to document learning in the core concepts.

The Department of Apparel, Educational Studies, and Hospitality Management continues to retain its program identity through degree programs while working administratively as one unit. The Apparel Merchandising, Design, and Production major has moved from three to four primary options, splitting the Design option into Creative Design and Technical Design to meet the needs in industry. Family and Consumer Sciences Education and Studies has focused on leadership and creative delivery methods in its graduate major. Hotel, Restaurant, and Institutional Management has strengthened its course offerings for the doctoral major added in the last catalog.

The Department of Food Science and Human Nutrition, with many changes in the previous catalog, has focused on fine-tuning those new offerings and examining creative ways to offer interdisciplinary programs.

The Department of Human Development and Family Studies merged two undergraduate majors, a) Family Resource Management and Consumer Sciences and b) Housing and the Near Environment into a new merged major, Family Finance, Housing, and Policy. The Policy and Advocacy option previously in the undergraduate Child, Adult, and Family Services major now resides in the merged major.

II. CURRICULA, MAJORS, MINORS, ADDED OR DROPPED

Merged two majors, a) B.S. in Family Resource Management and Consumer Sciences and b) B.S. in Housing and the Near Environment, into a new merged major, B.S. in Family Finance, Housing, and Policy.

VIII. SUMMARY OF CHANGES

	New	Dropped	Number	Credit	Title
Family and Consumer Sciences Education and Studies	2	0	0	0	1
Food Science and Human Nutrition	1	0	0	0	2
Hotel, Restaurant, and Institution Management	7	3	4	3	10
Human Development and Family Studies	1	8	0	2	14
Textiles and Clothing	6	3	0	10	9
Total	17	14	4	15	36

INTERDISCIPLINARY/INTERDEPARTMENTAL PROGRAMS

2005-2007

I. SIGNIFICANT TRENDS:

As in recent catalogs, new majors tend to be in interdisciplinary areas. The new M.S. and Ph.D. in Human Computer Interaction is a good example of this kind of a major. The program was approved by the Board of Regents in April of 2003 and already has 42 students. Another new interdisciplinary program is the M.S. in Enterprise Computing. Action on this program is expected by the Regents soon.

The M.S. and Ph.D. in Water Resources program has been renamed to the program to Environmental Science. There currently are 22 students in the Water Resources program. ISU already has a B.S. with the Environmental Science major. With this change, the description of the graduate program will be moved from the Water Resources section of the catalog to Environmental Science. There will be a large addition (54) of co-listed, cross-listed, and dual-listed courses added to the Environmental Science section to support the graduate program. (These courses are already found in other programs and departments.)

Two graduate programs were also dropped.

II. CURRICULA, MAJORS, MINORS, ADDED OR DROPPED:

Add: M.S. and Ph.D. in Human Computer Interaction

Drop: M.S. in Industrial Relations

Drop: M.S. and Ph.D. in Biomedical Engineering

Name change: M.S. and Ph.D. in Water Resources to Environmental Science

Add: M.S. in Enterprise Computing (approval pending)

VIII. SUMMARY OF OF CHANGES – Summary of Sections III, New Courses; Section IV, Courses Dropped; and Section VII, Course Number Changed, Course Credits Changed, and Course Title Changed.

	New	Dropped	Number	Credit	Title
Bioinformatics and Computational Biology	0	0	3	0	0
Biomedical Engineering	0	3	0	0	0
Biorenewable Resources and Technology	0	0	0	0	0
Complex Adaptive Systems	0	0	0	0	0
Ecology and Evolutionary Biology	0	0	0	0	0
Entrepreneurial Studies	0	0	0	0	0
Environmental Science	4	0	7	2	0
Environmental Studies	0	2	1	0	
Gerontology	5	0	0	0	2
Graduate Studies	2	0	0	0	0
Honors Program	0	0	0	0	0
Human Computer Interaction	3	0	0	0	0
Immunobiology	0	0	0	0	0
Industrial Relations	0	3	0	0	0
Information Assurance	0	1	0	0	0
Interdisciplinary Graduate Studies	0	0	0	0	0
International Studies	1	2	0	0	0
Iowa Lakeside Laboratory	0	1	6	0	0

Library	0	0	0	0	0
Molecular, Cellular, and Developmental Biology	0	0	1	0	0
Neuroscience	0	0	1	0	0
Plant Physiology	0	0	0	0	0
Technology and Social Change	0	1	0	0	
Toxicology	0	0	0	0	0
Transportation	1	0	0	0	0
University Studies	1	2	0	1	0
Water Resources	0	4	0	0	0
Total	17	19	21	4	2

COLLEGE OF LIBERAL ARTS AND SCIENCES

2005-2007

I. SIGNIFICANT TRENDS

LAS made a significant change this year by moving from 124.5 to 120 credits required for graduation. The college has also made a concerted effort to include learning goals in the new catalog copy of each of its departments and programs.

More specifically, the college has also seen a major restructuring of the biological sciences. As part of that reorganization, the undergraduate majors in Botany and Zoology have been discontinued. Students interested in these subjects will be accommodated in an expanded biology major. In terms of restructuring, Communication Studies has moved its home from Greenlee to LAS. There has also been growth in “areas of excellence” in the humanities, with a new M.A. in Rhetoric, Composition and Professional Communication and a new Ph.D. in Applied Linguistics and Technology as examples. The college has also extended its commitment to international perspectives; Foreign Languages and Literatures (FLL) has joined the Iowa Russian, East European and Eurasian Studies Distance Learning Consortium (REEES) supported by Iowa’s three regents’ institutions and the U.S. Department of Education’s International Studies and Foreign Languages (Title VI) program. FLL has also added a second-major option in Languages and Cultures for Professions (LCP) for students with primary majors in the Colleges of Business and Engineering.

There has also been a trend to upgrade existing majors and minors. In changes to majors, for example, Math has modified its requirements for its undergraduate major and, in its graduate program, has changed 20 of its 500 level courses to 600 level offerings. Music has increased the academic rigor of the minor in music, and in the music major, BA students will now be required to participate in four music ensembles.

In total, one graduate minor and two graduate majors have been added, while three undergraduate majors have been discontinued.

II. CURRICULA, MAJORS, MINORS, ADDED OR DROPPED

Add: M.A. in Rhetoric, Composition, and Professional Communication
Add: Ph.D. in Applied Linguistics and Technology
Add: Graduate Minor in Women’s Studies
Drop: Undergraduate major in Botany
Drop: Undergraduate major in Zoology
Drop: Undergraduate major in Applied Physics (pending Regents’ approval)

VIII. SUMMARY OF CHANGES

	New	Dropped	Number	Credit	Title
Air Force Aerospace Studies	0	0	0	0	0
American Indian Studies	1	0	0	1	0
Anthropology	6	3	0	1	1
Astronomy and Physics	1	4	0	2	2
Biochemistry, Biophysics, and Molecular Biology	0	3	0	2	9
Biology	1	0	15	0	0
Botany	0	2	25	2	1
Chemistry	2	0	3	5	4
Classical Studies	0	0	0	0	0

Communication Studies	1	0	0	0	1
Computer Science	5	1	2	1	3
Economics	3	7	4	1	2
English	8	4	5	2	2
Foreign Languages and Literatures (REEES Consortium)	10	0	0	0	0
French	0	0	1	0	4
Genetics	0	1	5	0	1
Geology	3	5	8	6	2
German	0	0	0	1	1
Greek	0	1	0	0	0
History	3	4	0	0	4
Italian	0	0	0	0	0
Journalism and Communication	0	0	0	1	5
Latin	0	0	0	0	0
Liberal Arts and Sciences Cross-Disciplinary Studies	1	0	0	2	4
Mathematics	2	4	21	0	27
Meteorology	1	0	1	3	0
Military Science	0	0	0	1	0
Music	0	4	1	0	0
Naval Science	0	1	2	0	0
Philosophy	2	0	0	0	1
Political Science	8	3	0	0	6
Portuguese	4	5	0	0	3
Psychology	2	3	0	0	0
Religious Studies	2	0	2	0	0
Russian	1	2	0	0	1
Sociology	0	6	0	3	4
Spanish	2	9	0	0	1
	New	Dropped	Number	Credit	Title
Speech Communication	0	0	0	0	0
Statistics	0	0	1	1	5
Theatre	0	0	0	0	0
Women's Studies	4	0	1	1	4
Zoology	0	6	21	1	1
Total	73	79	118	37	99

COLLEGE OF VETERINARY MEDICINE

2005-2007

I. SIGNIFICANT TRENDS:

Two years ago, at a faculty retreat, the decision was made to develop a competency based curriculum based upon a comprehensive outcomes assessment program that collects data that can be used to guide future curricular changes. A curriculum subcommittee developed a set of guidelines which was adopted and approved by the curriculum committee as a framework for curricular renewal. One of the recommendations was that we develop a set of college wide learning outcomes. This has been accomplished and we are now in the process of developing faculty working groups to identify learning outcomes at the course level and map them to the College Learning Outcomes. Assessment data was collected from student and alumni surveys, as well as the national studies such as the North American Board of Veterinary Medical Examiners. The curricular changes listed below are the direct result of the assessment process.

II. CURRICULA, MAJORS, MINORS ADDED OR DROPPED:

Drop: M.S/Ph.D. in Veterinary Anatomy

Drop: M.S/Ph.D. in Physiology

Add: MS/Ph.D. in Biomedical Sciences

III. NEW COURSES:

VIII. SUMMARY OF CHANGES:

	New	Dropped	Number	Credit	Title
Biomedical Sciences	2	4	0	1	2
Veterinary Clinical Sciences	6	1	0	6	6
Veterinary Diagnostic and Production Animal Medicine	2	6	0	0	5
Veterinary Medicine	0	1	3	0	0
Veterinary Microbiology and Preventive Medicine	0	0	0	0	2
Veterinary Pathology	0	2	0	0	1
Total	10	14	3	7	16