COLLEGE OF BUSINESS
2003-2005

I. SIGNIFICANT TRENDS:

Several significant trends relate to the College's 2000-2005 strategic plan and as well as its recent adoption of a focus areas in information and technology. In this regard, a number of new courses have been introduced that are compatible with the College's emphasis on linking theory with practice. A number of other new courses, as well as the E-commerce Certificate, revolve around the College's general focus area of information and technology, which includes specified sub-areas in managerial decision making, information management, and customer relationship management. Efforts are being made to facilitate the use of the MBA program for interdisciplinary studies. One such example is the newly offered MBA specialization in Sports Management. Finally, several new courses are offered as a means of meeting increased demand for business electives.

II.   CURRICULA, MAJORS, MINORS ADDED OR DROPPED:

Dropped: None

Added: Master of Science in Information Systems

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

	New	Dropped	Number	Credit	Title
Accounting	0	1	0	0	0
Business Administration	2	0	0	0	0
Finance	0	0	0	0	0
Management	1	1	0	0	0
Management Information Systems	2	2	0	0	0
Marketing	1	0	0	0	0
Production/Operations Management	2	1	0	0	0
Transportation and Logistics	0	0	0	0	0
Total	8	5	0	0	0

COLLEGE OF DESIGN
2003-2005

I. SIGNIFICANT TRENDS:

In Design College curricula, there is growing emphasis on the integration of computer and communication technology into studio and seminar courses. Professional curricula strongly recommend that students purchase or lease laptop computers prior to entering the professional programs. In the fall of 2001, the college initiated a program that allows students to lease high-end, degree-program specific laptop computers from the college. This very popular program is providing increased access to technology for our students, and increased curricular integration throughout degree programs.

In Design College curricula, there is continuing emphasis on experiential learning, internships and study abroad. In response to the large number of study abroad opportunities available to College of Design students, the college has added a required "Foreign Study Preparation" seminar, as a vehicle to provide orientation information for each of the college's study abroad programs. The success of two years of offering this seminar as an experimental course led to its inclusion in this catalogue.

The faculty of Art & Design has redesigned the BA curriculum by reducing the number of studio credits required and increasing the credits under the category of "applied minor or approved program," which involves courses taken outside of the department. The new curriculum will offer two concentrations, called "Art and Culture" and "Art and Design History and Theory." The "Art and Culture" concentration may involve a minor or approved program in any subject determined by the student and his or her advisor. The "Art and Design History and Theory" track will emphasize classes in history, theory, and criticism, with a foreign language requirement and a museum/gallery internship. We expect this concentration to be attractive to students interested in graduate study in art history or a career in museum work.

To better reflect the strengths of the faculty, Community and Regional Planning has changed its areas of concentration to land use and transportation, community design and development, and rural and environmental planning. Also the department has joined with other departments in the college in offering study abroad programs in Rome for both undergraduates and graduate students.

Landscape Architecture is implementing the fourth year of its new curriculum, focusing on increased course integration and opportunities for field study within the region. All courses in the 2003-2005 Bulletin will be taught during AY 2003. Courses in the old curriculum have been removed; several new courses in landscape ecology have been added.

II. CURRICULA, MAJORS, MINORS ADDED OR DROPPED:

None

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

	New	Dropped	Number	Credit	Title
Architecture	3	16	0	0	0
Art	0	0	0	0	0
Art and Design	0	0	0	0	0
Art Education	0	0	0	0	0
Art Graphic Design	0	0	0	0	0
Art History	2	4	0	0	2
Art Integrated Studio Arts	0	4	0	2	8
Art Interior Design	0	0	0	0	0
Community and Regional Planning	0	0	3	1	2
Design Studies	1	1	1	0	4
Landscape Architecture	6	6	0	4	8
Total	12	31	4	7	24

COLLEGE OF ENGINEERING
2003-2005

I. SIGNIFICANT TRENDS:

The AEEM Department has undergone extensive changes since the 2001-2003 catalog. The department name has been changed to Aerospace Engineering pending Regents approval. The mission of the department has been refocused toward Aerospace Engineering. This has resulted in significant changes to programs housed in the department. The five programs involved are:

1) Aerospace Engineering undergraduate program
2) Aerospace Engineering graduate program
3) Engineering Mechanics service courses
4) Engineering Mechanics graduate program
5) Engineering Science undergraduate program

In the Agricultural Engineering curriculum a new Agricultural and Environmental Systems Engineering option is offered. This new option replaces the Environmental and Natural Resources Engineering option and the Structures and Environmental Systems Engineering option. This change simplifies the curriculum and will be selected by students who want training in general agricultural engineering, but do not want to specialize in Power and Machinery Engineering.

The Civil Engineering course will highlight their environmental emphasis with a separate entry in the catalog. There are also plans afoot to change the name of the department to incorporate "environmental engineering" and longer term, the aim is to have an MS in Environmental Engineering defined. The integrated curriculum in the sophomore and junior years on communication and professional development is working well and is being expanded in the senior year design courses.

The overall thrust of Electrical Engineering and Computer Engineering catalog changes were to increase the number of allowed technical elective credits in the later years while decreasing the required core credits in the earlier years so that students may specialize in more areas or they may train more deeply in limited areas, and as a result will get more exposure to design, societal context, contemporary issues, and current industry technical tools and needs

The department of Industrial and Manufacturing Systems Engineering continuing an emphasis on enterprise computing and business management, a new information engineering and computing course, IE 148 (Information Technology for Engineers), was developed to replace the traditional programming course for freshmen, Engr 161, as a required course. Also, we have added IE 483/583 (Knowledge Discovery and Data Mining) as well as IE 588 (Information Systems for Manufacturing) in the area of enterprise computing. Finally, a third management/focus elective was added as a requirement, which is quite popular among business-oriented IE majors.

Several departments removed a number of courses that have not been taught for three or more years. Coupled with the dropping of Engineering Science and Engineering Applications and the refocus of Engineering Mechanics the college has more dropped courses in the new catalog than courses added.

II.   CURRICULA, MAJORS, MINORS ADDED OR DROPPED:

Dropped: Degree program in Engineering Application (pending Regents approval)
Dropped: Degree program in Engineering Science (pending Regents approval)

VIII. SUMMARY 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
Aerospace Engineering	3	11	2	5	6
Agricultural Engineering	3	3	7	5	6
Chemical Engineering	9	7	0	1	1
Civil Engineering	5	16	0	2	7
Computer Engineering	2	2	2	3	8
Construction Engineering	1	1	0	1	1
Electrical Engineering	5	11	0	1	5
Engineering	2	2	0	0	1
Engineering Applications	0	5	0	0	0
Engineering Mechanics	2	21	0	1	3
Engineering Science	0	11	0	0	0
Industrial Engineering	12	5	0	0	3
Materials Engineering	0	3	0	1	2
Materials Science and Engineering	2	1	0	0	0
Mechanical Engineering	8	2	1	1	3
Total	54	101	12	21	46

COLLEGE OF VETERINARY MEDICINE
2003-2005

I. SIGNIFICANT TRENDS:

The most significant trend is the merging and integration of existing courses. Biomedical Sciences restructured its major VM1 offerings to better integrate the subject matter of microscopic anatomy and cellular physiology by combining these two courses. A new course termed the Veterinarian in Society will run longitudinally throughout the curriculum for consecutive semesters and will incorporate material from at least 5 previously offered courses, mostly electives.

One of the major initiatives was to move most of the courses listed under Veterinary Medicine to a home department.

The Department of Veterinary Diagnostic and Production Animal Medicine restructured several courses and added a number of new courses in support of their graduate program.

II. CURRICULA, MAJORS, MINORS ADDED OR DROPPED:

Add: M.S. in Veterinary Diagnostic and Production Animal Medicine

VIII. SUMMARY 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
Biomedical Sciences	2	8	0	0	0
Veterinary Clinical Sciences	4	6	0	0	2
Veterinary Diagnostic and Production Animal Medicine	7	4	0	3	1
Veterinary Medicine	4	8	0	0	0
Veterinary Microbiology and Preventive Medicine	1	4	0	1	2
Veterinary Pathology	1	6	0	0	0
Total	19	36	0	4	5

INTERDISCIPLINARY/INTERDEPARTMENTAL PROGRAMS
2003-2005

I. SIGNIFICANT TRENDS:

   While there have been a number of majors and minors added or discontinued across the university since the last catalog, all of them will be reported in their respective departments and programs except the recently approved M.S. and Ph.D. in Biorenewable Resources and Technology.

II. CURRICULA, MAJORS, MINORS ADDED OR DROPPED:

   Add: M.S. and Ph.D. in Biorenewable Resources and Technology

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

	New	Dropped	Number	Credit	Title
Bioinformatics and Computational Biology	0	0	0	0	0
Biomedical Engineering	0	1	0	0	0
Biorenewable Resources and Technology	1	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	0	0	0	2	3
Environmental Studies	0	1	0	1	1
Genetics - Interdisciplinary	0	0	0	0	0
Gerontology	3	0	1	0	1
Graduate Studies	2	0	0	0	0
Honors Program	0	0	0	0	0
Immunobiology	1	0	0	0	0
Industrial Relations	0	0	0	1	0
Information Assurance	3	0	0	0	1
Interdisciplinary Graduate Studies	0	0	0	0	0
International Studies	0	0	0	0	0
Iowa Lakeside Laboratory	3	0	0	4	1
Library	0	0	0	0	0
Molecular, Cellular, and Developmental Biology	0	0	0	0	0
Neuroscience	0	0	0	0	0
Plant Physiology	0	0	0	0	0
Technology and Social Change	0	0	0	0	0
Toxicology	0	1	1	0	0
Transportation	0	0	0	0	0
University Studies	8	3	0	0	2
Water Resources	0	0	0	0	0
Total	21	6	2	8	9