REQUEST FOR ADDING, CHANGING, SUSPENDING OR DROPPING AN UNDERGRADUATE CURRICULUM

Department: Stephenson Department of Entrepreneurship and Information Systems
College: E. J. Ourso College of Business
Name of Curriculum/Major: ISDS
Type of Degree: BS
Date: 2/7/2018

Has this change been discussed with and approved by all departments/colleges affected? Yes (x) No ( ) N/A ( )

ATTACH JUSTIFICATION for all actions: Use separate sheet.
ATTACH RESPONSE from any departments affected [i.e. any department whose course(s) are to be added.]
ATTACH FORM D ADDENDUM for all new curricula or changes involving General Education courses.

ACTION (check appropriate box):

( ) ADDING: The entire new curriculum, by semester, must be typed on plain sheets and attached to Form D. (See sample layout attached.)

( x) CHANGING: Regardless if all semesters of a curriculum are to be changed or only parts, the present and proposed (eight-semester) recommended path should be attached on separate pages. On the Present recommended path, use strikeout and on the Proposed recommended path, highlight areas to identify deletions and additions. Do not use boldface to designate changes as boldface is reserved for critical requirements within the recommended path. Explain all changes adequately on attachment.

( ) SUSPENDING: Provide an adequate explanation for suspending the curriculum on plain sheets and attach.

( ) DROPPING: Provide an adequate explanation for dropping the curriculum on plain sheets and attach.

CURRICULUM

<table>
<thead>
<tr>
<th>PRESENT</th>
<th>PROPOSED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total semester hours in current curriculum: 120</td>
<td>Total semester hours in proposed curriculum: 120</td>
</tr>
</tbody>
</table>

APPROVALS:

Department Faculty Approval Date 5/9/17

Edward Watson / Date 3/18

ROW / Date 2/9/2018

College Dean's Signature

( Date )

Academic Affairs Approval ( Date )

College/Division/Department Contact: __________________________

(Please print name.)

Contact E-mail: __________________________
Justification:

SDEIS recently dropped the two concentrations for the BS in ISDS (Information Technology and Business Intelligence). Attached is the curriculum that is intended to replace these two concentrations. The curriculum closely matches the Information Technology concentration; it was included in the previous C&C course proposals in paragraph form (see attached). As indicated in the course proposals, the department will now use “approved ISDS electives” to allow students to choose courses through which they can achieve various career goals.

We are now submitting a form D in order to establish the curriculum that will replace the two former concentrations.
Justification – Short Version

Regarding the BS ISDS Core Curriculum updates, six courses are impacted: ISDS 3100, ISDS 3107, ISDS 3110, ISDS 4113, ISDS 4120, and ISDS 4125.

These courses are not new courses. These courses have evolved over the past twenty years based on industry trends and based on changes by textbook authors and publishers.

The courses titles and course descriptions were updated in order to be consistent with what is taught and this is based on industry trends, academic benchmarking standards, and on updates to text books by publishers and authors.

The course sequencing was also updated in order to provide a more logical and seamless learning experience, based on the insights of our senior MIS faculty.

The instructors will continue to use the same textbooks in 2018/2019, as they use in 2017/2018, with the exception of ISDS 3107 where we plan to switch from the C# programming language to Python. This is also to keep current with modern business practice.

Justification/Explaination

During Spring 2017, the Board of Regents approved the renaming of the ISDS department to the Stephenson Department of Entrepreneurship & Information Systems. A new BS Entrepreneurship degree was added, and all Entrepreneurship related courses were migrated from the Rucks Department of Management to the Stephenson Department of Entrepreneurship & Information Systems, and a new ENTR rubric was created for all Entrepreneurship courses. New ENTR courses were added, and new Entrepreneurship faculty were added.

While this transition was taking place, ISDS faculty conducted an extensive two-year review of the BS ISDS and ITM Minor and benchmarked against other top programs, as well as ACM/AIS standards. After careful review and discussion with the faculty, and with the SDEIS Industry Advisory Board, a reorganization of the curriculum has been proposed that serves the follow purpose: to align the information systems major with external best practices and marketplace expectations, and to enable our students to be more competitive in the current business environment. The proposed structure expands our core curriculum from four courses to six courses, and provides flexibility to students to leverage electives to craft career tracks.

The new six course required core is illustrated below.

The proposed structure begins by establishing a series of principles for the information systems field (3100) that introduces students to the foundations of the discipline. Drawing upon this, students will learn to design and develop Information Systems solutions (3107) and understand how to manage data and information within organizations (3110). This core helps students better understand the challenges of managing information systems projects (4113) and creating the necessary IS architecture to support these implementations (4120). The curriculum will conclude with a capstone course to discuss how to analyze and design information systems inside of organizations (4125) by drawing upon the accumulation of technical and managerial knowledge from their previous courses.

A secondary objective of this revision is to adjust the title of the course in order to better reflect the focus of the department on developing Information Systems professionals, in contrast to Information Technology professionals.
# GENERAL EDUCATION REQUIREMENTS

When a department adds a new curriculum or makes changes in an existing one, a Form D Addendum must also be submitted. This form is simply a list of those courses in the curriculum that satisfy the General Education requirement. Include course rubric, number, and credit hours when curricula differ from the default values. Indicate the curriculum semester for all General Education courses.

<table>
<thead>
<tr>
<th>General Education Requirement</th>
<th>Course(s)</th>
<th>Credit Hours</th>
<th>Curriculum Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (6 hrs.)</td>
<td>ENGL 1001 or 1004</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGL 2000</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Analytical Reasoning (6 hrs.)</td>
<td>General Education analytical reasoning course (from mathematics department)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>(At least 3 hours credit must be from a MATH course.)</td>
<td>General Education analytical reasoning course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Arts (3 hrs.)</td>
<td>General Education arts course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Humanities (9 hrs.)</td>
<td>General Education humanities course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>General Education humanities course</td>
<td>3</td>
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<tr>
<td></td>
<td>General Education humanities course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Natural Sciences (9 hrs.)</td>
<td>General Education natural science course sequence</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>(If 2 course sequence is taken in the physical sciences, the additional 3 hour course must be from the life sciences, and vice versa.)</td>
<td>General Education natural science course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Social Sciences (6 hrs.)</td>
<td>General Education social science course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>(At least three hours at the 2000-level.)</td>
<td>General Education social science course (2000-level)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
Proposed ISDS Curriculum without a concentration

CRITICAL REQUIREMENTS

SEMESTER 1: “C” or better in ENGL 1001, MATH 1021; 2.3 cumulative GPA

SEMESTER 2: “C” or better in ISDS 1102, MATH 1431; 2.3 business GPA; 2.6 cumulative GPA

SEMESTER 3: “C” or better in ACCT 2001, ECON 2000; 2.3 business GPA; 2.6 cumulative GPA

SEMESTER 4: ECON 2010; ISDS 2000; Admission to the College; 2.3 business GPA; 2.6 cumulative GPA

SEMESTER 5: “C” or better in ENGL 2000; ACCT 2101

Semester 1

CRITICAL: “C” or better in ENGL 1001, MATH 1021; 2.3 Cumulative GPA.

ECON 2000 Principles of Microeconomics (3)
ENGL 1001 English Composition (3)
ISDS 1102 Introduction to Management Information Systems for Business Majors (3)
MATH 1021 College Algebra (3)
General Education course - Natural Sciences (3)

Total Semester Hours: 15

Semester 2

CRITICAL: “C” or better in ISDS 1102, MATH 1431; 2.3 Business GPA; 2.6 Cumulative GPA.

ACCT 2001 Introductory Financial Accounting (3)
MATH 1431 Calculus with Business and Economic Applications (3)
Oral and Written Communication Requirement 1 (3)
General Education course - Humanities (3)
General Education course - Natural Sciences (3)

Total Semester Hours: 15

Semester 3

CRITICAL: “C” or better in ACCT 2001, ECON 2000; 2.3 Business GPA; 2.6 Cumulative GPA.

ECON 2010 Principles of Macroeconomics (3)
ISDS 2000 Introduction to Business Statistics & Analytics (3)
ACCT 2101 Introductory Managerial Accounting (3)
General Education course - Arts (3)
General Education course - Humanities (3)

Total Semester Hours: 15

Semester 4

CRITICAL: ISDS 2000; ECON 2010; Admission to the College; 2.3 Business GPA; 2.6 Cumulative GPA.

ECON 2035 Money, Banking and Macroeconomic Activity (3)
ENGL 2000 English Composition (3)
ISDS 2001 Methods and Models of Statistics in Analytics (3)
FIN 3716 Financial Management (3)
Oral and Written Communication Requirement 2 (3)

Total Semester Hours: 15

Semester 5

CRITICAL: “C” or better in ENGL 2000; ACCT 2101.

BLAW 3201 Business Law (3)
ISDS 3100 Foundations of Information Systems (3)
ISDS 3115 Introduction to Operations Management (3)
MKT 3401 Principles of Marketing (3)
Business Elective (3000/4000-level) (3)

Total Semester Hours: 15

Semester 6

ISDS 3110 Data and Information Management (3)
ISDS 3107 Design of Information Solutions (3)
MKT 3200 Principles of Management (3)
Business Elective (3000/4000-level) (3)
Elective (3)

Total Semester Hours: 15

Semester 7

ISDS 4113 Management of Information Systems Projects (3)
ISDS 4120 Enterprise Architecture (3)
Approved ISDS Elective (3)
General Education course - Humanities (3)
General Education course - Natural Sciences (3)

Total Semester Hours: 15

Semester 8

MGT 3830 Strategic Management (3)
ISDS 4125 Analysis and Design of Management Information Systems (3)
Approved ISDS Electives (6)
Elective (3)

Total Semester Hours: 15

120 Total Sem. Hrs.

1 - GENERAL EDUCATION NATURAL SCIENCE REQUIREMENT: If two course sequence is taken in the physical science, the additional: three hour course must be taken from the life sciences, and vice versa.

2 - Oral and Written Communication Requirement 1: Choose from CMST 2060, CMST 2061 or CMST 2064. A Communication Intensive (C-I) course may be substituted for the Oral and Written Communication Requirement with permission from an academic advisor.

3 - Business students cannot receive credit for ACCT 2000, ECON 2030, FIN 3715 or ISDS 1100.

4 - Oral and Written Communication Requirement 2: Choose from CMST 2060, CMST 2061 or CMST 4113. A Communication Intensive (C-I) course may be substituted for the Oral and Written Communication Requirement with permission from an academic advisor.

5 - BUSINESS ELECTIVES: select from the 3000 or 4000 level offerings of the following departments – ACCT, BADM, BLAW, ECON, FIN, GBUS, MGT, MKT, and ISDS.

6 - ELECTIVES: See “Electives” under “Degree Requirements of the College.” A list of approved ISDS electives is available from the Stephenson Department of Entrepreneurship & Information Systems.