COLLEGE OF ENGINEERING
COURSE AND CURRICULUM CHANGES
To be considered at the College of Engineering Faculty Meeting

April 3, 2014
Fiedler Auditorium
3:30
Undergraduate/Graduate

NON-EXPEDITED

Contact Person: James Goddard
532-3569
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Units that may be directly impacted by these changes:
Apparel, Textiles, and Interior Design, Animal Sciences and Industry, Business Administration,
Arts & Sciences, Statistics

Please provide the sponsors of a proposal change with any information regarding fiscal or
programmatic impact on your department, program or students
Non-Expedited COURSE PROPOSALS
Courses Numbered 000-599

Computing and Information Sciences

Change: CIS 101 - Introduction to Computing Systems, Information Search, and Security (1). Introduction to basic computer and Internet security including basic computer security and privacy issues, computer networks, malware protection; effective use of the Internet as a resource including website evaluation and effective search tools and techniques.

Note
One hour lecture, two hours scheduled laboratory, and two hours unscheduled open laboratory each week. Course meets in one contiguous block of four weeks.

Requisites
None

When Offered
Fall, Spring, Summer

To: CIS 101 - Introduction to Computing Systems (1). Introduction to computer hardware, securing your system, networking, understanding application and system software, and effective use of the Internet as a resource including website evaluation and use of search tools and techniques.

Note
One hour lecture and two hours unscheduled open laboratory each week. Course meets in one contiguous block of eight weeks.

Requisites
None

When Offered
Fall, Spring, Summer

Rationale: Current course description not reflective of the current content of the course. Course has also been shifted from a 4-week course to an 8-week course to allow better coverage of the content of the course. Students were struggling to complete the course work within such a short time frame. Current Course title also needs to be truncated since “Information Search, and Security” are no longer objectives of the course.

Effective: Fall 2014
**Impact:** The following heads of the affected departments were officially notified of the change from a four week to eight week format in March of 2013. Changes were not implemented until the Fall 2013 semester.

- Barbara Anderson - Apparel, Textiles, and Interior Design
- Kenneth G. Odde - Animal Sciences and Industry
- Stacy Kovar – Business Administration*
- Alison Wheatley – Arts & Sciences

*This course is no longer required by Business Administration. It serves only as an optional prerequisite for some of the required courses.

**Change:** CIS 102 - Introduction to Spreadsheet Applications (1). Designing, building, and modifying spreadsheets. Addressing techniques and formatting. Use of formulas and functions. Spreadsheets as management and decision tools. Charting of data.

**Note**
One hour lecture, two hours scheduled laboratory, and two hours unscheduled open laboratory each week. Course meets in one contiguous block of **four** weeks.

**Requisites**
None.

**When Offered**
Fall, Spring, Summer

**To:** CIS 102 - Introduction to Spreadsheet Applications (1). Designing, building, modifying and formatting spreadsheets. Use of formulas, functions and charts. Editing document properties and printing. Using large spreadsheets as management, decision and goal seeking tools.

**Note**
One hour lecture and two hours unscheduled open laboratory each week. Course meets in one contiguous block of **eight** weeks.

**Requisites**
None.

**When Offered**
Fall, Spring, Summer

**Rationale:** Current course description requires minor modification to reflect current content of the course. Course has also been shifted from a 4-week course to an 8-week course to allow better coverage of the content of the course. Students were struggling to complete the course work within such a short time frame.

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Change: CIS 103 - Introduction to Database Applications (1). Design, create, modify, and maintain relational databases. Create relationships. Add and modify data. Search and query database. Design and create screen forms and reports.

Note
One hour lecture, two hours scheduled laboratory, and two hours unscheduled open laboratory each week. Course meets in one contiguous block of four weeks.

Requisites
None.

When Offered
Fall, Spring, Summer

To: CIS 103 - Introduction to Database Applications (1). Design, create, modify, and maintain relational databases. Creating and modifying tables, relationships, queries, and forms. Add and modify data to the tables. Database backup and recovery. Search, sort and query database. Database maintenance.

Note
One hour lecture and two hours unscheduled open laboratory each week. Course meets in one contiguous block of eight weeks.

Requisites
None.

When Offered
Fall, Spring, Summer

Rationale: Current course description requires minor modification to reflect current content of the course. Course has also been shifted from a 4-week course to an 8-week course to allow better coverage of the content of the course. Students were struggling to complete the course work within such a short time frame.

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Note
One hour lecture, two hours scheduled laboratory, and two hours unscheduled open laboratory each week. Course meets in one contiguous block of four weeks.

Requisites
None

When Offered
Fall, Spring, Summer

To: CIS 104 - Introduction to Word Processing Applications (1). Basic features of word processing that include creating, formatting, and editing a document. Inserting and formatting pictures within a document. Revise, update, and rearrange text. Changing document properties and printing the document. Creating a research paper and a business letter.

Note
One hour lecture and two hours unscheduled open laboratory each week. Course meets in one contiguous block of eight weeks.

Requisites
None

When Offered
Fall, Spring, Summer

Rationale: Current course description requires minor modification to reflect current content of the course. Course has also been shifted from a 4-week course to an 8-week course to allow better coverage of the content of the course. Students were struggling to complete the course work within such a short time frame.
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Non-Expedited COURSE PROPOSALS
Courses Numbered 600-999

Industrial and Manufacturing Systems Engineering

New Course

IMSE 785. Big Data Analytics. Topics include big data management, data architecture of hosting big data, big data retrieval languages, parallel computing methods, big data analytical methods, and data visualization.

Credits: (3)

Requisites:
CIS 209; STAT 510 (or STAT 350).

When Offered:
Spring, on campus every other year; online every year

Effective term for requested action: Term Spring Year 2015

Please attach a course syllabus for review by the college course and curriculum committee.

Rationale: This course aims to enhance data analytics education at K-State. This proposed course will extend traditional data analytics to situations where the data is big in terms of volume, velocity, and variety.

Impact (i.e. if this impacts another unit) – Possible on-campus students other than those from IMSE, who will take this course, are from Statistics and CIS. This proposed course was brought to the attention of the department heads of Statistics and CIS, Drs. Gadbury, and Singh during the data science meeting on February 18, 2014. Dr. Singh suggested we need Dr. Dan Andresen’s approval to use the K-State Beocat computer facility for instructional purposes. We did make the request and gain the permission on March 11, 2014.