

Western Kentucky University
Office of the Dean
745-2446

REPORT TO THE UNIVERSITY SENATE

DATE: March 2009

FROM: Graduate Studies and Research

The Graduate Council submits the following items for consideration. Items marked with an asterisks [*] are information items. All other items are consent items:

I. Multiple Revisions to a Course
 CS 442G Data Structures

II. Revise Course Prerequisites/Corequisites
 CS 565 Data Mining

Proposal Date: 11/05/2008

**Ogden College of Science and Engineering
Department of Mathematics and Computer Science
Proposal to Make Multiple Revisions to a Course
(Action Item)**

Contact Person: Art Shindhelm, 5-6247, art.shindhelm@wku.edu

1. Identification of course:

- 1.1 Current course prefix (subject area) and number: CS 442G
- 1.2 Course title: Data Structures
- 1.3 Credit hours: 3

2. Revise course title:

- 2.1 Current course title: Data Structures
- 2.2 Proposed course title: Data Structures and Algorithm Analysis
- 2.3 Proposed abbreviated title: Data Struct & Algrthm Analysis
- 2.4 Rationale for revision of course title: The revised title more accurately reflects what is currently taught in the course.

3. Revise course catalog listing:

- 3.1 Current course catalog listing:

Arrays, lists, trees, storage and file structures, sorting and searching techniques, dynamic storage allocation and garbage collection algorithms, structures, pointers, bit and character strings, list processing, recursive programming for tree processing.

- 3.2 Proposed course catalog listing:

Important data structures, algorithms, and their applications, emphasizing algorithm analysis and general algorithmic strategies. Includes balanced search trees, hashing, priority queues, sorting, and graph algorithms.

- 3.3 Rationale for revision of course catalog listing:

Changes in the field of computer science caused an increased emphasis on algorithm analysis in this course. The proposed catalog listing reflects this change in course emphasis.

4. Proposed term for implementation:

Fall 2009

5. Dates of prior committee approvals:

Department of Mathematics and Computer Science __11/20/08__

OCSE Graduate Curriculum Committee 12/5/08

Graduate Council _____2/12/2009_____

University Senate _____

Attachment: Course Inventory Form

10/25/08

OCSE
Department of _Mathematics and Computer Science
Proposal to Revise Course Prerequisites/Corequisites
(Consent Item)

Contact Person: Art Shindhelm, art.shindhelm@wku.edu, x56247

1. Identification of course:

- 1.1 Course prefix (subject area) and number: CS565
- 1.2 Course title: Data Mining
- 1.3 Credit hours: 3

2. Current prerequisites/corequisites/special requirements:

Prerequisite: CS 543 – Computer Information System Design

3. Proposed prerequisites/corequisites/special requirements:

Prerequisite: CS 443G – Introduction to Data Base

4. Rationale for the revision of prerequisites/corequisites/special requirements:

The new prerequisite more closely reflects the background needed for the course.

5. Effect on completion of major/minor sequence:

Not applicable

6. Proposed term for implementation : Fall,2009

7. Dates of prior committee approvals:

_Math/CS Department/Division: _____10/24/08_____

OCSE Graduate Curriculum Committee _____12/5/08_____

Graduate Council _____2/12/2009_____

University Senate _____

Attachment: Course Inventory Form