1.0 Degree Title
Specify the two degrees for concurrent degree programs

2.0 Administering Faculty/Unit

2.1 Science

2.2 Offering Faculty/Department
Science / Computer Science

3.0 Effective Term of revision or retirement
Please give reasons in 5.0 “Rationale” in the case of retirement
(Ex. Sept. 2004 = 200409) Retirement

3.1 Term: 201209

4.0 Existing Credit Weight

4.1 36-37

4.2 Proposed Credit Weight

4.3 36-37

5.0 Rationale for revised program
This is a minor change that is due to a course retirement (COMP 431) in the list of Complementary Courses.

6.0 Revised Program Description (Maximum 150 words)

**CURRENT**

This Major concentration provides a program of study that covers the subject commonly known as "Software Engineering". This program may be used to satisfy part of the requirements for a B.A. & Sc. degree. This program does not lead to certification as a Professional Engineer.

- Students may complete this program with a minimum of 36 credits or a maximum of 37 credits depending on their choice of complementary courses.

**PROPOSED**

- The Major Concentration Software Engineering focuses on the techniques and methodology required to design and develop complex software systems and covers the subject commonly known as "Software Engineering".
- MATH 133, MATH 140, and MATH 141 (or their equivalents) must be completed prior to taking courses in this program.

Note: This program does not lead to certification as a Professional Engineer.
MAJOR CONCENTRATION IN SOFTWARE ENGINEERING (36-37 credits)

**Required Courses (30 credits)**
- COMP 202* (3) Introduction to Computing 1
- COMP 206 (3) Introduction to Software Systems
- COMP 250 (3) Introduction to Computer Science
- COMP 251 (3) Data Structures & Algorithms
- COMP 273 (3) Introduction to Computer Systems
- COMP 302 (3) Programming Languages & Paradigms
- COMP 303 (3) Software Development
- COMP 421 (3) Database Systems
- MATH 223 (3) Linear Algebra
- MATH 240 (3) Discrete Structures 1

*Students who have sufficient knowledge in a programming language do not need to take COMP 202 and can replace it with additional computer science complementary course credits.

**Complementary Courses (6-7 credits)**

6-7 credits selected from:
- COMP 322 (1) Introduction to C++
- COMP 361 (6) Systems Development Project
- COMP 529 (3) Software Architecture
- COMP 533 (3) Object-Oriented Software Development

Or any computer science course at the 300-level or above, excluding COMP 364, COMP 396, and COMP 431.

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MAJOR CONCENTRATION IN SOFTWARE ENGINEERING (36-37 credits)

**Required Courses (30 credits)**
- COMP 202* (3) Introduction to Programming
- COMP 206 (3) Introduction to Software Systems
- COMP 250 (3) Introduction to Computer Science
- COMP 251 (3) Algorithms and Data Structures
- COMP 273 (3) Introduction to Computer Systems
- COMP 302 (3) Programming Languages & Paradigms
- COMP 303 (3) Software Development
- COMP 421 (3) Database Systems
- MATH 223 (3) Linear Algebra
- MATH 240 (3) Discrete Structures 1

*Students who have sufficient knowledge in a programming language do not need to take COMP 202 and can replace it with additional computer science complementary course credits.

**Complementary Courses (6-7 credits)**

6-7 credits selected from:
- COMP 322 (1) Introduction to C++
- COMP 361 (6) Systems Development Project
- COMP 529 (4) Software Architecture
- COMP 533 (3) Object-Oriented Software Development

Or any computer science course at the 300-level or above, excluding COMP 364, COMP 396, and COMP 400.
8.0 Consultation with Related Units  ☐ Yes  ☐ No  ☐ Yes  ☐ No  

Attach list of consultations

9. Approvals

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Submitted by

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