1.0 Degree Title
Specify the two degrees for concurrent degree programs

| B.Sc. |

1.1 Major (Legacy = Subject) (30-char. max.)
Software Engineering

1.2 Concentration (Legacy = Concentration/Option)
If applicable (30 char. max.)

| |

1.3 Minor (with Concentration, if applicable)
(30 char. max.)

| |

1.4 Category
- Faculty Program (FP)
- Major
- Joint Major
- Major Concentration (CON)
- Minor
- Minor Concentration (CON)

| |

1.5 Complete Program Title
Core Science Component in Software Engineering

2.0 Administering Faculty/Unit
Science

2.1 Offering Faculty/Department
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

| Term: 201009 |

4.0 Existing Credit Weight

| 43-49 |

Proposed Credit Weight

| 48-49 |

5.0 Rationale for revised program
Changes are required to align the courses and structure with updates to the Software Engineering major program.

Liberal Core Science Component

6.0 Revised Program Description (Maximum 150 words)
LIBERAL PROGRAM: CORE SCIENCE COMPONENT IN SOFTWARE ENGINEERING

EXISTING as of 2009/10 (online)
LIBERAL PROGRAM: CORE SCIENCE COMPONENT IN SOFTWARE ENGINEERING  (48-49 credits)

COMP 202* Introduction to Computing 1 (3)
COMP 206 Introduction to Software Systems (3)
COMP 250 Introduction to Computer Science (3)
COMP 251 Data Structures and Algorithms (3)
COMP 273 Introduction to Computer Systems (3)
COMP 302 Programming Languages and Paradigms (3)
COMP 303 Software Development (3)
COMP 304 Object oriented Design (3)
COMP 310 Operating Systems (3)
COMP 361 Systems Development Project (3)
MATH 223 Linear Algebra (3)
MATH 240 Discrete Structures 1 (3)
* 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 (12-13 credits)
3 credits selected from:
  COMP 330 Theoretical Aspects: Computer Science (3)
  COMP 360 Algorithm Design Techniques (3)
3 credits selected from:
  COMP 335 Software Engineering Methods (3)
  ECSE 321 Introduction to Software Engineering (3)
6-7 credits selected from:
COMP 322 Introduction to C++ (1)
COMP 409 Concurrent Programming (3)
COMP 421 Database Systems (3)
COMP 435 Basics of Computer Networks (3)
or COMP 535 Computer Networks 1 (3)
COMP 520 Compiler Design (4)
COMP 525 Formal Verification (3)
COMP 529 Software Architecture (3)
COMP 533 Object-Oriented Software Development (3)
Or any computer science course at the 300-level or above, excluding COMP 364, COMP 396, and COMP 431.

PROPOSED 2010/11
LIBERAL PROGRAM: CORE SCIENCE COMPONENT IN SOFTWARE ENGINEERING  (48-49 credits)

COMP 202* Introduction to Computing 1 (3)
COMP 206 Introduction to Software Systems (3)
COMP 250 Introduction to Computer Science (3)
COMP 251 Data Structures and Algorithms (3)
COMP 273 Introduction to Computer Systems (3)
COMP 302 Programming Languages and Paradigms (3)
COMP 303 Software Development (3)
COMP 310 Operating Systems (3)
COMP 361 Systems Development Project (6)
MATH 223 Linear Algebra (3)
MATH 240 Discrete Structures 1 (3)
* 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 (12-13 credits)
3 credits selected from:
  COMP 330 Theoretical Aspects: Computer Science (3)
  COMP 360 Algorithm Design Techniques (3)
9-10 credits selected from:
COMP 322 Introduction to C++ (1)
COMP 409 Concurrent Programming (3)
COMP 421 Database Systems (3)
COMP 435 Basics of Computer Networks (3)
or COMP 535 Computer Networks 1 (3)
COMP 520 Compiler Design (4)
COMP 525 Formal Verification (3)
COMP 529 Software Architecture (3)
COMP 533 Object-Oriented Software Development (3)
Or any computer science course at the 300-level or above, excluding COMP 364, COMP 396, and COMP 431.
### 8.0 Consultation with Related Units

[ ] Yes  [ ] No

Financial Consult [ ] Yes  [ ] No

Attach list of consultations

### 9. Approvals

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Submitted by

Name: ___________________________  To be completed by ARR:

Phone: ___________________________  CIP Code: ___________________________

Email: ___________________________

Submission Date: ____________________