



SACRAMENTO STATE

Program Proposal Form B



Academic Group (College): College of Engineering and Computer Science	Date of Submission to College Dean: February 18, 2008
Academic Organization (Department): Computer Science Department	Requested Effective: Fall <u>X</u> , Spring __, 2008 __.
Department Chair: Du Zhang	Contact if not Department Chair:

Title of the Program: M.S. in Software Engineering

Type of Program Proposal:

- Modification in Existing Program:**
 Substantive Change
 Non-Substantive Change
 Deletion of Existing Program

- New Programs**
 Initiation (Projection) of New Program on to Master Plan
 New Degree Programs
 Regular Process
 Fast Track Process
 Pilot Process
 New Minor, Concentration, Option, Specialization, Emphasis
 New Certificate Program

PLEASE NOTE: Form B is to be used only as a Cover Form. Additional information is requested for each of the above as noted in the corresponding procedure in the Policies and Procedures for Initiation, Modification, Review and Approval of Courses and Academic Programs found at <http://www.csus.edu/acad/univmanual/index.htm>


Briefly describe the program proposal (new or change) and provide a justification.

Restructuring to merge required core courses CSC 230, 232, 233, 235, 238 and electives CSC 231, 234, 236 into one group from which students are required to take seven out of eight courses. The required core course in Research Methodology is now in its own lettered section. Other degree requirements remain the same.

Justification: This change will not reduce the rigor or change the units of the degree program but will provide flexibility in department course scheduling.

Approvals:

Department Chair:  **Date:** 2/18/2008

College Dean:  **Date:** 2/22/08

University Committee: _____ **Date:** _____

Associate Vice President and Dean for Academic Affairs: _____ **Date:** _____

**ANALYSIS OF PROGRAM CHANGE PROPOSAL
FOR THE M.S. IN SOFTWARE ENGINEERING
December 20, 2007**

1. **Form B:** Attached.

2. **Programmatic or Fiscal Impact on Other Academic Units' Programs.**

There will be no programmatic or fiscal impact on other academic units' programs.

3. **Fiscal Analysis of Proposed Changes.**

a. **How will the proposed changes be accommodated within department/college existing fiscal resources?**

No additional resources are needed.

b. **If the proposed changes will require additional resources, describe the level and nature of additional funding the college will seek.**

N/A.

c. **What additional space, equipment, operating expenses, library, computer, or media resources, clerical/technical support, or other resources will be needed? Estimate the cost and indicate how these resource needs will be accommodated.**

N/A.

4. **New/Old Program Requirements**

See the next page.

NEW PROGRAM

A. Required Software Engineering Courses (16 units) ++++

++++
++++
++++
++++
++++
++++
++++
++++

Select 7 out of the following 8 courses:

- (3) CSC 230 Software System Engineering (fully classified graduate status in Computer Science or Software Engineering; or fully classified graduate status in Computer Engineering and CSC 131)
- (3) CSC 231 Software Engineering Metrics (fully classified graduate status in Computer Science or Software Engineering)
- (3) CSC 232 Software Requirements Analysis and Design (fully classified graduate status in Computer Science or Software Engineering)
- (3) CSC 233 Advanced Software Engineering Project Management (fully classified graduate status in Computer Science or Software Engineering)
- (3) CSC 234 Software Verification and Validation (fully classified graduate status in Computer Science or Software Engineering; or fully classified graduate status in Computer Engineering and CSC 131)
- (3) CSC 235 Software Architecture (fully classified graduate status in Computer Science or

OLD PROGRAM

A. Required Software Engineering Core Courses (16 units)

- (1) CSC 209 Research Methodology (fully classified graduate status in Computer Science or Software Engineering, passing score on the WPE, completion of at least 12 units of 200-level courses in Computer Science)

++++
++++

- (3) CSC 230 Software System Engineering (fully classified graduate status in Computer Science or Software Engineering; or fully classified graduate status in Computer Engineering and CSC 131)

++++
++++
++++

- (3) CSC 232 Software Requirements Analysis and Design (fully classified graduate status in Computer Science or Software Engineering)

- (3) CSC 233 Advanced Software Engineering Project Management (fully classified graduate status in Computer Science or Software Engineering)

++++
++++
++++
++++
++++
++++

- (3) CSC 235 Software Architecture (fully classified graduate status in Computer Science or

<p>299. An additional three units in this category must be taken if a core course is waived.</p> <p>2. Related 200-level courses from outside the Computer Science Department may only be taken with prior department approval and may not have been used in another program.</p> <p>D. Culminating Requirement (2-5 units) Select one of the following: CSC 500 Master's Thesis (CSC 209; advanced to candidacy) OR CSC 502 Master's Project (CSC 209; advanced to candidacy)</p> <p>Note: Students are required to make an oral presentation of their master's project or conduct an oral defense of their master's thesis. The recommended department-level deadline in each semester for submitting an MS project or thesis signed by the committee chair and its members to the graduate coordinator's office is 10 weekdays prior to the University deadline.</p>	<p>299. An additional three units in this category must be taken if a core course is waived.</p> <p>3. Related 200-level courses from outside the Computer Science Department may only be taken with prior department approval and may not have been used in another program.</p> <p>D. Culminating Requirement (2-5 units) Select one of the following: CSC 500 Master's Thesis (CSC 209; advanced to candidacy) OR CSC 502 Master's Project (CSC 209; advanced to candidacy)</p> <p>Note: Students are required to make an oral presentation of their master's project or conduct an oral defense of their master's thesis. The recommended department-level deadline in each semester for submitting an MS project or thesis signed by the committee chair and its members to the graduate coordinator's office is 10 weekdays prior to the University deadline.</p>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------