

**DEGREE/PROGRAM CHANGE
FORM C**

Fields marked with * are required

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Initiator's Rank / Title* Dept Administrator 2: Computer

Science

Faculty Contact* Jared Saia

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Department* Computer Science

Division

Program

Branch

Proposed effective term:

Semester Fall ▼ Year 2008 ▼

Course Information

Select Appropriate Program Graduate Degree Program ▼ CIP Code

Name of New or Existing Program * Master of Science in Computer Science

Catalog Page Number 423 Select Category Degree ▼ Degree Type MS

Select Action Revision ▼

Exact Title and Requirements as they should appear in the catalog.

See current catalog for format within the respective college (enter text below or upload a doc/pdf file)

See attached changes to Master's Program in Computer Science

[Master's Program.doc](#)

This Change affects other departmental program/branch campuses

Reason(s) for Request * (enter text below or upload a doc/pdf file)

We propose to make these changes for two reasons: 1) To simplify & streamline the Master's program requirements so that our students can more easily fulfill the requirements within two years; and 2) To introduce more flexibility into the Master's program so that our students can explore more elective courses both within and outside the CS Department.

Statements to address budgetary and Faculty Load Implications and Long-range planning

*(enter text below or upload a doc/pdf file)

No additional budget or faculty resources will be required beyond our current allocations.

Master's Program
Pg. 423 of 2007-2008 Catalog

Current (Track 1)	Proposed
The M.S. in computer science has two tracks, each with its own set of requirements. Students can get an M.S. under either track. Both tracks are offered under Plans I and II.	The M.S. in Computer Science can be completed under Plan I or Plan II.
In addition to all Office of Graduate Studies requirements for the master's degree, the department also requires the following:	In addition to all Office of Graduate Studies requirements for the master's degree, the department also requires the following:
1. Thirty-two semester hours of approved graduate courses.	1. Thirty-two semester hours of approved graduate courses.
2. Exactly 2 semester hours of CS 592 (<i>Colloquium</i>), taken at the University of New Mexico.	2. At least 2 semester hours of CS 592 (<i>Colloquium</i>), taken at the University of New Mexico.
3. At least 18 hours must be in regularly scheduled and special-topics courses offered by the Computer Science Department; this specifically excludes thesis and individual study.	Delete
4. In addition to Colloquium, at least 15 of the 32 hours must be in courses offered by the Computer Science Department at the 500 level or above.	3. At least 26 of the 32 hours must be in courses offered by the Computer Science Department at the 500 level or above.
5. Students graduating under Plan I must take a minimum of 6 hours of CS 599 and submit an acceptable thesis. Only 6 hours of CS 599 may be counted toward the 32 hours.	4. Students graduating under Plan I must take a minimum of 6 hours of CS 599 and submit an acceptable thesis. Only 6 hours of CS 599 may be counted toward the 32 hours.
6. Completion of CS 561 (<i>Algorithms/Data Structures</i>) and four common core courses: CS 500 (<i>Introduction to the Theory of Computation</i>), CS 530 (<i>Geometric and Probabilistic Methods in Computer Science</i>), CS 580 (<i>The Specification of Software Systems</i>) and a course in complex adaptive systems (contact the department for a list of acceptable courses).	5. Completion of a minimum of two courses from each category below: <ul style="list-style-type: none"> a. Mathematical Methods – CS 500, CS 530, CS 550, CS 561 b. Empirical Methods – CS 512, CS 527, CS 529, CS 532, course in Complex Adaptive Systems (contact department for a list of acceptable courses). c. Engineering/System Building Methods – CS 554, CS 580, CS 585, CS 587
7. Completion of an advanced course in algorithms: contact the department for a list of acceptable courses.	Delete

<p>8. Completion of an advanced course in system design: contact the department for a list of acceptable courses.</p>	<p>Delete</p>
<p>9. Passing the master's examination. For Plan I students, the master's examination is the defense of thesis. For Plan II students, the master's examination is a written examination based on the five courses CS 451, 481, 500, 530 and 561. A brochure describing the program and requirements can be obtained from the department.</p>	<p>6. Passing the master's examination. For Plan I students, the master's examination is the defense of thesis. For Plan II students, the master's examination is an oral examination demonstrating mastery of core areas above.</p>

Current (Track 2)	Proposed (Same as Track 1)
The M.S. in computer science has two tracks, each with its own set of requirements. Students can get an M.S. under either track. Both tracks are offered under Plans I and II.	The M.S. in Computer Science can be completed under Plan I or Plan II.
In addition to all Office of Graduate Studies requirements for the master's degree, the department also requires the following: 1. Thirty-five semester hours of approved graduate courses.	In addition to all Office of Graduate Studies requirements for the master's degree, the department also requires the following: 1. Thirty-two semester hours of approved graduate courses.
2. Exactly 2 semester hours of CS 592 (<i>Colloquium</i>), taken at the University of New Mexico.	2. At least 2 semester hours of CS 592 (<i>Colloquium</i>), taken at the University of New Mexico.
3. At least 18 hours must be in regularly scheduled and special-topics courses offered by the Computer Science Department; this specifically excludes thesis and individual study.	Delete
4. In addition to Colloquium, at least 15 of the 32 hours must be in courses offered by the Computer Science Department at the 500 level or above.	3. In addition to Colloquium, at least 24 of the 32 hours must be in courses offered by the Computer Science Department at the 500 level or above.
5. Students graduating under Plan I must take a minimum of 6 hours of CS 599 and submit an acceptable thesis. Only 6 hours of CS 599 may be counted toward the 32 hours.	4. Students graduating under Plan I must take a minimum of 6 hours of CS 599 and submit an acceptable thesis. Only 6 hours of CS 599 may be counted toward the 32 hours.
6. Completion of CS 561 (<i>Algorithms/Data Structures</i>)any three of the four common core courses: CS 500 (<i>Introduction to the Theory of Computation</i>), CS 530 (<i>Geometric and Probabilistic Methods in Computer Science</i>), CS 580 (<i>The Specification of Software Systems</i>) and a course in complex adaptive systems (contact the department for a list of acceptable courses).	5. Completion of a minimum of two courses from each category below: d. Theoretical Methods – CS 500, CS 530, CS 550, CS 561 e. Imperical Methods – CS 512, CS 527, CS 529, CS 532, course in Complex Adaptive Systems (contact department for a list of acceptable courses). f. Engineering/System Building Methods – CS 554, CS 580, CS 585, CS 587
7. Completion of one of several focus areas defined and approved by the faculty of the Computer Science Department. These focus areas will comprise 9 to 12 units. Plan I students can apply 3 units of 599 towards their focus area.	Delete

8. Passing the master's examination. For Plan I students, the master's examination is the defense of thesis. For Plan II students, the master's examination is a written examination based on the five courses CS 451, 481, 500, 530 and 561. A brochure describing the program and requirements can be obtained from the department.

6. Passing the master's examination. For Plan I students, the master's examination is the defense of thesis. For Plan II students, the master's examination is an oral examination demonstrating mastery of core areas above.