

COMPUTER SCIENCE

Requirement Checklist for Master of Science

Last _____	First _____	Start Quarter _____
Degree Goal _____	E-mail _____	Student ID # _____

COURSE REQUIREMENTS

CORE Course	Quarter Passed	BREADTH Course	Area	Quarter Passed
CMPS 201	_____	_____	_____	_____
CMPS 203	_____	_____	_____	_____
		_____	_____	_____

ARCHITECTURE

CE 110/202 _____

**CE110 only waives the architecture requirement, units will not be counted.*

RESEARCH & TEACHING (CS 200) _____

PROJECT TRACK

40 Credits (includes courses above)

Course	Quarter Passed
_____	_____
_____	_____
_____	_____
_____	_____
CMPS 296	_____

THESIS TRACK

43 Credits (includes courses above)

Course	Quarter Passed
_____	_____
_____	_____
_____	_____
_____	_____
CMPS 299	_____

Project Committee

Thesis Committee

MS in Computer Science - Project Track

Each student is required to take 40 credits as follows:

- CMPS 200, Research and Teaching in Computer Science and Engineering, 3 credits
- CMPS 201, Analysis of Algorithms, 5 credits
- CMPS 203, Programming Languages, 5 credits
- CMPS 296, Master's Project, 2 credits
- A base requirement in computer architecture must be met by taking Computer Engineering 110 (grade B or higher) or Computer Engineering 202. Computer Engineering 110 can be taken to meet the architecture requirement, however, the credits will not be counted toward graduation requirements.
- One course each from three different breadth categories for a total of three courses (15 credits)—see www.cs.ucsc.edu/graduates/breadth/
- All remaining courses must be regular, 5-credit graduate courses from computer science; courses that do not count include all courses numbered 200, 280, 296, 297, and 299.
- At least 25 credits must be in computer science.
- Upper-division undergraduate UCSC computer science courses may be taken to strengthen a student's preparation for graduate studies. At most 10 units of UCSC upper-division undergraduate computer science courses (other than CMPS 101) may be counted towards the degree requirements.
- With the exception of 200, 280, 296, 297, and 299, all graduate courses and upper-division courses must be taken for letter grade. Only courses with a letter grade of B- or higher can be counted towards the MS degree requirements.
- Courses that are taken to satisfy an undergraduate degree requirement cannot be counted towards the MS degree requirements. Undergraduates who are in their senior year at UCSC and are taking computer science upper-division courses or computer science graduate courses that are beyond their undergraduate degree requirements can count those courses as part of their MS degree should they apply to the computer science MS program.
- Courses from other institutions may be substituted for equivalent courses at UCSC (with the approval of the graduate advisor and graduate committee) but may not count towards the 40 unit requirement of the computer science MS degree. For example, a student may substitute an equivalent course for CMPS201 but may not count that course towards the 40 unit requirement. As another example, a student may substitute an equivalent graduate course for CMPS260 and count that as breadth but may not count that course towards the 40 unit requirement or as part of the 25 units from Computer Science.

Each student must complete CMPS 200 in their first year.

Each student must complete CMPS 201 or a course to prepare the student for CMPS 201 in their first year, after which CMPS 201 should be completed by the end of the second year.

Each student must complete CMPS 203 or a course to prepare the student for CMPS 203 in their first year, after which CMPS 203 should be completed by the end of the second year.

Each student must complete Computer Engineering 110 or Computer Engineering 202 in their first year.

Project

Completion of a Master's Project is required for the Master's degree. In consultation with the advisor, the student forms a [Master's Project Reading Committee](#) of at least two faculty members (including the advisor), each of whom is provided a copy of the project report. The final project must be accepted by the review committee before the award of the Master of Science degree.

MS in Computer Science - Thesis Track

Each student is required to take 43 credits as follows:

- CMPS 200, Research and Teaching in Computer Science and Engineering, 3 credits
- CMPS 201, Analysis of Algorithms, 5 credits
- CMPS 203, Programming Languages, 5 credits
- CMPS 299, Thesis Research, 5 credits
- A base requirement in computer architecture must be met by taking Computer Engineering 110 (grade B or higher) or Computer Engineering 202. Computer Engineering 110 can be taken to meet the architecture requirement, however, the credits will not be counted toward graduation requirements
- One course each from three different breadth categories for a total of three courses (15 credits) —see www.cs.ucsc.edu/graduates/breadth/
- All remaining courses must be regular, 5-credit graduate courses from computer science; courses that do not count include all courses numbered 200, 280, 296, 297, and 299.
- At least 25 credits must be in computer science.
- Upper-division undergraduate UCSC computer science courses may be taken to strengthen a student's preparation for graduate studies. At most 10 units of UCSC upper-division undergraduate computer science courses (other than CMPS 101) may be counted towards the degree requirements.
- With the exception of 200, 280, 296, 297, and 299, all graduate courses and upper-division courses must be taken for letter grade. Only courses with a letter grade of B- or higher can be counted towards the MS degree requirements.
- Courses that are taken to satisfy an undergraduate degree requirement cannot be counted towards the MS degree requirements. Undergraduates who are in their senior year at UCSC and are taking computer science upper-division courses or computer science graduate courses that are beyond their undergraduate degree requirements can count those courses as part of their MS degree should they apply to the computer science MS program.
- Courses from other institutions may be substituted for equivalent courses at UCSC (with the approval of the graduate advisor and graduate committee) but may not count towards the 40 unit requirement of the computer science MS degree. For example, a student may substitute an equivalent course for CMPS 201 but may not count that course towards the 40 unit requirement. As another example, a student may substitute an equivalent graduate course for CMPS 260 and count that as breadth but may not count that course towards the 40 unit requirement or as part of the 25 units from computer science.

Each student must complete CMPS 200 in their first year.

Each student must complete CMPS 201 or a course to prepare the student for CMPS 201 in their first year, after which CMPS 201 should be completed by the end of the second year.

Each student must complete CMPS 203 or a course to prepare the student for CMPS 203 in their first year, after which CMPS 203 should be completed by the end of the second year.

Each student must complete Computer Engineering 110 or Computer Engineering 202 in their first year.

Thesis

Completion of a master's thesis is required for the master's degree. To fulfill this requirement, the student submits a written proposal to a faculty member, usually by the third academic quarter. By accepting the proposal, the faculty member becomes the thesis adviser. In consultation with the adviser, the student forms a [master's thesis reading committee](#) with at least two additional faculty members, each of whom is provided a copy of the proposal. The student presents an expository talk on the thesis research, and the final thesis must be accepted by the review committee before the award of the master of science degree.