# Computer Science MS

## Degree Requirements

~~Students choose one of the following options.~~

~~1. Traditional Computer Science option~~

~~2. Certificate option~~

~~3. Professional option~~

~~Students must complete the following common requirements, and additional specific requirements specific to the chosen option.~~

Candidates for the M.S. degree in Computer Science must complete 30 credit hours of ~~course work~~ coursework in Computer Science (CMP SCI~~), subject to the Graduate School regulations~~. ~~Up to 6 hours can be completed outside CMP SCI in a related field, based on student's interests and with the permission of the Graduate Director. Up to a third of the required credit hours can be transferred into the program.~~

~~At least 18 credit hours must be numbered 5000 or above, and at least 3 credit hours must be at the 6000-level (research courses or thesis). All courses numbered below 5000 must be completed with a grade of at least B-.~~

~~All students must complete the following core courses~~

- Up to 6 credit hours of related coursework can be completed outside of CMP SCI, based on the student's interests with the permission of the Graduate Director

- Up to 10 credit hours can be transferred into the program

- Up to 12 credits hours from 4000-level courses completed with at least a B- can be used in the program

- At least 3 credit hours must be at the 6000-level

- Students with relevant prior full-time training and/or experience of a minimum of one year can apply for up to 6 proficiency transfer credit hours in CMP SCI 5991

## Core Courses

| | | |
|---|---|---|
| CMP SCI 4250 | Programming Languages | 3 |
| CMP SCI 5130 | Advanced Data Structures and Algorithms | 3 |
| CMP SCI 5500 | Software Engineering | 3 |
| CMP SCI 5710 | Modern Computing | 3 |

## Additional Requirements

| | |
|---|---|
| CMP SCI 6000-level course | 3-6 |
| Electives [1] | 12-15 |
| Colloquia [2] | 0 |
| **Total Hours** | **~~9~~ 30** |

[1] Electives can count towards graduate certificates.
[2] A student must attend at least five seminars or colloquia.

Students finding an internship/co-op opportunity can enroll in a credit course CMP SCI 5900 for up to 3 credit hours to be counted as an elective.

If other departments are affected by this proposal, please secure "sign-offs" and indicate for each department the following:

| Department | Contact Person | Phone # | Objections |
|---|---|---|---|
| Information Systems | Dinesh Mirchandani | | No |

**Justification for request:**
Simplifying the program into one option, with one new course added to the core (the course is also submitted)