

COMPUTER SCIENCE, M.S.

A bachelor's degree equivalent to the B.S. in computer science at Baylor or the B.A. in computer science at Baylor with calculus II and linear algebra is the standard requirement for admission. The submission of GRE score is required for admission. For those applying with less than the standard preparation, the quality and adequacy of the admissions record will be evaluated by the Graduate Committee of the Department of Computer Science after reviewing the application for admission. Requirements which must be met before admission will be determined by that committee. These requirements will be in addition to requirements for the M.S. degree.

All work presented to meet the requirements for this degree must be approved by the student's Advisory Committee or thesis Committee.

The Graduate Committee will appoint a graduate Advisory Committee for each student to monitor the progress of the student. The Master of Science program in computer science has two options, a thesis option and a project option.

Thesis Option

The thesis option is designed for students who are interested in eventually obtaining a Ph.D. in computer science or for well-qualified students who wish to complete a master's degree in the shortest time possible.

| Code | Title | Hours |
|-------------------------|------------------------------------|-------|
| Required Courses | | |
| CSI 5010 | Graduate Seminar (2 semesters) | 0 |
| CSI 5310 | Introduction to Computation Theory | 3 |
| CSI 5350 | Advanced Algorithms | 3 |
| CSI 5324 | Software Engineering | 3 |
| CSI 5321 | Advanced Data Communications | 3 |
| CSI 5335 | Advanced Database | 3 |
| CSI 5V92 | Master's Research | 3 |
| CSI 5V99 | Thesis | 3 |

Electives

A total of 12 semester hours of electives are required. 12

A student's undergraduate preparation will normally include courses in Data Communications and Operating Systems. For students without prior course work in these areas, one of the following two courses may be taken for graduate credit, but only one of these courses may count toward the master's degree requirements:

CSI 4321 Data Communications
or CSI 4337 Introduction to Operating Systems

With the approval of the advisory committee, the student may take one 5000-level course from outside the department. No more than one course from outside the department may count toward the master's degree requirements.

Except as mentioned above, any CSI course that is offered for graduate credit may be taken as an elective.

Total Hours 33

Project Option

The project option is designed for students interested in a terminal master's degree. It is also appropriate for students who continue to work while obtaining the degree. This option is designed for a fall entry. The program is intended to be completed in two years by a full-time student, but it is structured so that additional time may be taken to complete the degree.

| Code | Title | Hours |
|-------------------------|------------------------------------|-------|
| Required Courses | | |
| CSI 5010 | Graduate Seminar (2 semesters) | 0 |
| CSI 5310 | Introduction to Computation Theory | 3 |
| CSI 5350 | Advanced Algorithms | 3 |
| CSI 5324 | Software Engineering | 3 |
| CSI 5321 | Advanced Data Communications | 3 |
| CSI 5335 | Advanced Database | 3 |
| CSI 5V92 | Master's Research | 3 |
| CSI 5V96 | Master's Project | 3 |

Electives

A total of 12 semester hours of electives are required. 12

A student's undergraduate preparation will normally include courses in Data Communications and Operating Systems. For students without prior course work in these areas, one of the following two courses may be taken for graduate credit, but only one of these courses may count toward the master's degree requirements:

CSI 4321 Data Communications
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Total Hours 33

An oral examination will be required of every student in either option. There is no foreign language requirement for graduation.