

Computer Science BS

Degree Requirements in Computer Science

Candidates for the B. S. Computer Science degree must complete the following work:

1) Computer Science Core

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| CMP SCI 1000 | Computer Science Experiences | 1 |
| CMP SCI 1250 | Introduction to Computing | 3 |
| CMP SCI 2250 | Programming and Data Structures | 3 |
| CMP SCI 2261 | Object-Oriented Programming | 3 |
| CMP SCI 2700 | Computer Organization and Architecture | 3 |
| CMP SCI 2750 | Linux Environment and Programming | 3 |
| CMP SCI 2751 | File Systems, Operations, and Tools | 3 |
| CMP SCI 3010 | Web Full Stack Development | 3 |
| CMP SCI 3130 | Design and Analysis of Algorithms | 3 |
| CMP SCI 3260 | C/C++ for Advanced Programming | 3 |
| CMP SCI 4250 | Programming Languages | 3 |
| CMP SCI 4280 | Program Translation Project | 3 |
| CMP SCI 4500 | Introduction to the Software Profession | 3 |
| CMP SCI 4760 | Operating Systems | 3 |

2) Computer Science Electives

Select ~~five~~ **four** more elective computer science courses, numbered ~~15~~ **12** above 3000.

3) Mathematics and Statistics

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| MATH 1320 | Introduction to Probability and Statistics | 3 |
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| MATH 1800 | Analytic Geometry and Calculus I | 5 |
| MATH 1900 | Analytic Geometry and Calculus II | 5 |
| MATH 2450 | Elementary Linear Algebra | 3 |
| MATH 3000 | Discrete Structures | 3 |
| 4) Additional Skills | | |
| ENGL 3130 | Technical Writing | 3 |
| Total Hours | | 71 |

There are no related area requirements for majors in Computer Science

Justification for request:

We are changing the introductory language, which triggers a number of changes in all dept degree programs.