

# Ph.D. in Computer Science

A Ph.D. student must complete a minimum of 60 credits of coursework beyond the Bachelor's degree or a minimum of 30 credits of coursework beyond the Master's degree. The degree requirements for the Ph.D. degree are found at [www.cs.montana.edu/current-students-phd.html](http://www.cs.montana.edu/current-students-phd.html) (<http://www.cs.montana.edu/current-students-phd.html>).

## Required courses include:

|                            |               |    |
|----------------------------|---------------|----|
| CSCI 532                   | Algorithms    | 3  |
| CSCI 538                   | Computability | 3  |
| Doctoral Thesis (CSCI 690) |               | 18 |

## And four courses from the following:

|          |                                     |   |
|----------|-------------------------------------|---|
| CSCI 534 | Computational Geometry              | 3 |
| CSCI 535 | Computational Topology              | 3 |
| CSCI 540 | Advanced Database Systems           | 3 |
| CSCI 546 | Advanced Artificial Intelligence    | 3 |
| CSCI 547 | Machine Learning                    | 3 |
| CSCI 545 | Advanced Human Computer Interaction | 3 |
| CSCI 550 | Advanced Data Mining                | 3 |
| CSCI 551 | Adv. Computational Biology          | 3 |
| ESOF 522 | Empirical Software Engr             | 3 |