

# COMPUTER SCIENCE, ACCELERATED MASTER'S DEGREE

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Undergraduates accepted to an Accelerated Master's Degree program can begin taking master's level classes while still in the undergraduate program. Up to 12 graduate credits can be used to fulfill requirements for both the undergraduate and the master's degrees, effectively reducing the cost of, and time to, degree. Graduates of this program will be prepared for direct entry into the job market or continuation of graduate study towards an M.D. or Ph.D or other professional program.

B.S. in Computer Science (BSCS) curriculum requires 120 credit hours for graduation and the M.S. in Computer Science (MSCS) degree requires 30 credit hours. Students enrolled in the AMD program can substitute up to a maximum of 12 credits of their BSCS courses to 12 graduate credits of MSCS program to receive both BSCS and MSCS degrees in 5 years by completing a total of 138 credits.

The BSCS curriculum requires 6 credits of computer science major electives and 8 credits of free electives (see BSCS Study Plan). During their senior year, AMD students will take four CS graduate courses (one in fall semester and three in spring semester) at the 500 or 600 level for graduate degree credit (see MSCS plan of study) in lieu of major or free electives.

## Eligibility Requirements for Accelerated Master's Degree Program

- completed at least 80 hours toward the bachelor's degree;
- at least a 3.30 overall undergraduate GPA;
- at least a 3.30 GPA in the major.

## 5-Year Dual Degree in Computer Science

| Course                    | Title                         | Credit Hours |
|---------------------------|-------------------------------|--------------|
| <b>Fourth Year</b>        |                               |              |
| <b>Fall</b>               |                               |              |
| CS 360                    | Automata and Formal Languages | 3            |
| CS 510                    | Advanced Database Systems     | 3            |
| Science w/Lab 3           |                               | 4            |
| Writing Intensive         |                               | 3            |
| <b>Credit Hours</b>       |                               | <b>13</b>    |
| <b>Total Credit Hours</b> |                               | <b>13</b>    |

| Course             | Title          | Credit Hours |
|--------------------|----------------|--------------|
| <b>Fourth Year</b> |                |              |
| <b>Spring</b>      |                |              |
| CS 490 🍄           | Senior Project | 3            |
| CS 515             | Data Mining    | 3            |

|                           |   |           |
|---------------------------|---|-----------|
| Graduate Elective         | 3 |           |
| Graduate Elective         | 3 |           |
| Free Elective             | 2 |           |
| <b>Credit Hours</b>       |   | <b>14</b> |
| <b>Total Credit Hours</b> |   | <b>14</b> |

| Course                    | Title                | Credit Hours |
|---------------------------|----------------------|--------------|
| <b>Fifth Year</b>         |                      |              |
| <b>Fall</b>               |                      |              |
| CS 511                    | Advanced Programming | 3            |
| CS 620                    | Applied Algorithms   | 3            |
| Graduate Elective         |                      | 3            |
| <b>Credit Hours</b>       |                      | <b>9</b>     |
| <b>Total Credit Hours</b> |                      | <b>9</b>     |

| Course                    | Title                   | Credit Hours |
|---------------------------|-------------------------|--------------|
| <b>Fifth Year</b>         |                         |              |
| <b>Spring</b>             |                         |              |
| CS 600                    | Advanced Web Technology | 3            |
| Graduate Elective         |                         | 3            |
| Graduate Elective         |                         | 3            |
| <b>Credit Hours</b>       |                         | <b>9</b>     |
| <b>Total Credit Hours</b> |                         | <b>9</b>     |