

# DATA 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 a Ph.D or other professional program.

The B.S. in Computer Science (BSCS) curriculum requires 120 credit hours for graduation and the M.S. in Data Science (MSDS) 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 the MSDS program to receive both BSCS and MSDS 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 MSDS 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 Data Science

Course	Title	Credit Hours
<b>Fourth Year</b>		
<b>Fall</b>		
CS 360	Automata and Formal Languages	3
CS 511	Advanced Programming	3
Science with 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
STA 535	Statistical Data Mining	3
CS 630	Machine Learning	3
Graduate Course (Domain 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 670	Visual Analytics	3
STA 634	Stat Mtds for Researchers	3
CS 660	Big Data Systems	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>		
Graduate Course (Domain Elective)		3
Graduate Course (Domain Elective)		3
Graduate Course (Domain Elective)		3
<b>Credit Hours</b>		<b>9</b>
<b>Total Credit Hours</b>		<b>9</b>