

# Data Science Certificate

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The certificate in Data Science requires 15 graduate semester hours of coursework.

Code	Title	Semester Hours
<b>Computational Statistics/Algorithm Design, must take both courses (6 hours):</b>		
CS 588	INTRO TO BIG DATA COMPUTING	3
CS 617	DES & ANALY OF ALGORITHM	3
<b>Group A, select 2 courses (6 hours):</b>		<b>6</b>
CS 637	DEEP LEARNING	
CS 640	MACHINE LEARNING	
CS 641	DATA MINING	
CS 687	DATA BASE SYSTEMS	
<b>Group B, select 1 course (3 hours):</b>		<b>3</b>
CS 530	SURVEY ARTIFICIAL INTELLIGENCE	
CS 543	INTRO TO MULTIMEDIA SYSTEMS	
CS 545	INTRO COMPUTER GRAPHICS	
CS 554	INTRO TO CLOUD COMPUTING	
CS 581	MODELING & SIMULATION I	
CS 582	MODELING & SIMULATION II	
CS 643	DATA COMPRESSION	
<b>Total Semester Hours</b>		<b>15</b>