



UMSL



College of Arts and Sciences
Department of Mathematics and Computer Science

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Graduate Certificate in Artificial Intelligence



The graduate certificate in Artificial Intelligence is a six-course (18 credit hours) program. It provides skills and training necessary to start and/or advance in the growing areas of AI, with a range of electives to focus more specifically in one's desired direction of study. All students must take two required courses and four electives, subject to the [graduate school regulations](#). Courses may be substituted with the permission of the program director.

Required core courses	Computational track	2
CMP SCI 5130	Advanced Data Structures and Algorithms	
CMP SCI 5300/4300	Artificial Intelligence	
Choose four of the electives		4
CMP SCI 5320/4320	Evolutionary Computation	
CMP SCI 5340/4340	Machine Learning	
CMP SCI 5342/4342	Data Mining	
CMP SCI 5370/4370	Biological Data Science	
CMP SCI 5390/4390	Deep Learning	
CMP SCI 5420/4420	Digital Image Processing and Computer Vision	
CMP SCI 6320	Advances in Evolutionary Computation	
CMP SCI 6340	Genetic Programming	
Total courses (credit hours)		6(18)

For more information visit umsl.edu/cs.

For career information visit umsl.edu/cs/careers.

For electronic version of this document and more info visit <http://www.umsl.edu/cs/certificates>

UMSL|NOW : All courses available in the evening - some every semester some on rotation.