

Certificate in
Artificial Intelligence

UMSL

UMSL is a NSA/DHS National
Center of Academic Excellence in
Cyber Defense Education



College of Arts and Sciences

**Department of Mathematics
and Computer Science**

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Undergraduate Certificate in Artificial Intelligence



The certificate in Artificial Intelligence is a six-course (18 credit hours) program. It provides skills and training necessary to start or progress in the growing areas of AI, with a range of electives to focus more specifically in one's desired direction of study. A minimum GPA of 2.5 is required for admission. All students must take two required courses and four electives.

A minimum of four courses must be taken in residence in the [Department of Mathematics and Computer Science at UMSL](#). Courses may be substituted with the permission of the program director.

In addition to university scholarships, the department awards about \$40k annually in mostly [merit-based scholarships](#).

Required core courses	2
CMP SCI 3130	Analysis of Algorithms
CMP SCI 4300/5300	Introduction to Artificial Intelligence
Choose four of the electives	4
CMP SCI 4320/5320	Introduction to Evolutionary Computation
CMP SCI 4340/5340	Introduction to Machine Learning
CMP SCI 4342/5342	Introduction to Data Mining
CMP SCI 4370/5370	Introduction to Biological Data Science
CMP SCI 4390/5390	Introduction to Deep Learning
CMP SCI 4420/5420	Introduction to Digital Image Processing and Computer Vision
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.