

New Program Proposal

Artificial Intelligence, Undergraduate Certificate

The undergraduate 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.

Required Courses		
CMP SCI 3130	Design and Analysis of Algorithms	3
CMP SCI 4300	Introduction to Artificial Intelligence	3
Electives		12
CMP SCI 4320	Introduction to Evolutionary Computation	
CMP SCI 4340	Introduction to Machine Learning	
CMP SCI 4342	Introduction to Data Mining	
CMP SCI 4370	Introduction to Biological Data Science	
CMP SCI 4390	Introduction to Deep Learning	
CMP SCI 4420	Introduction to Digital Image Processing	
Total hours		18

Sign-offs from other departments affected by this proposal

Department	Contact Person	Phone #	Objections
S005150	Dinesh Mirchandani		No

Rationale

The certificate summarizes the fact that we have courses specializing in artificial intelligence and one can obtain this specialization as a part of a major study or separately. This will be used for advertising.