Artificial Intelligence, Graduate Certificate

The graduate certificate in Artificial Intelligence is a four-course (12 credit hour) 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 two electives.

A minimum of three courses must be taken from UMSL. A maximum of two courses can be used from the 4000-level. Courses may be substituted with the permission of the certificate coordinator. For more information, students can contact the department chair or email info@arch.umsl.edu.

Required Courses

| CMP SCI 5130 | Advanced Data Structures and Algorithms | 3 |
|-------------------------|---|----|
| CMP SCI 5300 | Artificial Intelligence | 3 |
| Elective Courses | | 6 |
| Choose 2 two of the fo | ollowing: | |
| CMP SCI 4610 | Database Management Systems | |
| CMP SCI 5151 | Statistical Methods for Data Science | |
| CMP SCI 5320 | Evolutionary Computation | |
| CMP SCI 5340 | Machine Learning | |
| CMP SCI 5342 | Data Mining | |
| CMP SCI 5370 | Biological Data Science | |
| CMP SCI 5390 | Deep Learning | |
| CMP SCI 5420 | Digital Image Processing and Computer | |
| | Vision | |
| CMP SCI 6320 | Advances in Evolutionary Computation | |
| CMP SCI 6340 | Genetic Programming | |
| Total Hours | | 12 |

Justification for request:

Adding to electives a new course on statistics for CS and an existing DB course