

Department of Software Engineering  
 Building 70 # 1690  
 Phone: (585) 475-5461

Application Domain Description

**UNDERGRADUATE**

*Name of domain:* Artificial Intelligence

This domain provides students with a broad exposure to the multidisciplinary field of artificial intelligence. Within this domain, students will acquire both the theoretical knowledge and technical skills needed to interact with researchers and practitioners in domains, including game development, computer vision, and sensors.

### Courses

<i>Course number</i>	<i>Course title</i>	<i>Prerequisites</i>
CSCI-331	Introduction to Intelligent Systems	CSCI-261 & MATH-251 (see below)
PSYC-223	Cognitive Psychology	PSYC -101

In addition select *ONE* of the following courses:

CSCI-431	Introduction to Computer Vision	CSCI-331
CSCI-632	Mobile Robot Programming	CSCI-331
PSYC-222	Biopsychology	PSYC-101
PSYC-235	Learning and Behavior	PSYC-101

### Domain Prerequisites

<i>Course number</i>	<i>Course title</i>
PSYC-101	Introduction to Psychology (taken as LA elective)
CSCI-261	Analysis of Algorithms (taken as Engineering elective)
MATH-251	Probability and Statistics I (taken as Math/Science elective) or STAT-205 (Applied Statistics) by permission of instructor

### *Considerations*

Minor: See the Computer Science or Psychology Department websites for current minor requirements.

Before you start on an application domain you should work through the impacts on your schedule. There may be a need to coordinate your co-op blocks based on the semesters in which courses are typically offered as well as considering course pre-requisite chains required within the application domain. Be sure to check with the sponsoring department to obtain the

latest information on course prerequisites, scheduling, and registration constraints. Before embarking on a minor you should meet with the department sponsoring the minor to review their current minor requirements, register for the minor, and review scheduling strategies.

*Last reviewed: 02/25/2014*