

Syllabus

Coordinates:

Time: 1:10pm - 2:00pm, Tuesdays
 Location: Olhsted 1122

Instructor:

Christian Shelton
 cshelton@cs.ucr.edu
 office hours: Thursdays 1:30 - 3:30 pm

TA:

Teddy Yap, Jr.
 tyap@cs.ucr.edu
 office hours: TBD

Texts: *The Elements of Style* by Strunk & White (*Artificial Intelligence: A Modern Approach* by Russell & Norvig is also highly recommended)

Course Work: The main objective of this course is the production of an robotic artificial intelligence system. Surrounding that goal there are a number of deadlines:

week	Friday Due Date	Group Deliverable	Individual Deliverable
1	10/7		
2	10/14	Wander Behavior	Assessment Report
3	10/21		
4	10/28		Assessment Report
5	11/4	Design Specification	
6	11/11		Assessment Report
7	11/18		
8	11/25		Assessment Report
9	12/2		
10	12/9	Final Report & Project	Assessment Report
Finals		Oral Presentation	

As an individual, you will be required to submit **assessment reports** every two weeks. In each report, you will outline your progress since the last report and your expectations for the upcoming two weeks. Additionally, for each other student in the class, you will score the amount of interaction you've had with that student and your assessment of his or her productivity.

Within your group, you will be responsible for 4 deliverables:

Wander: A simple project to help you get familiar with the robot and simulation environments.

Design Specification: A technical documentation of your chosen design.

Final Report & Project: The full project and documentation.

Oral Presentation: An oral presentation of your work.

Grade: Each group's grade will be decided based on the following graded work (and relative weighting).

Wander Project	10%	Design Specification	10%
Self Assessments	10%	Peer Assessments	10%
Final report	20%	Oral presentation	20%
Completed project	20%		

Lectures: Lectures will be one hour each week. Two main topics will be covered: robotic algorithms and methods & group work and presentations.

Labs: Lab will be held for three hours each week. The TA will run the lab sessions. Labs are your chance to get help with your project and learn how to use the simulator and robot. The TA's job is to assist you with specific AI knowledge relevant to your problem. Treat him as a technical consultant. Weekly labs are his consulting hours during which you are free to use his knowledge to direct your proposal, find solutions to specific problems, and refine your designs.

Communication: This course involves writing and oral presentation. Communication is vital to any engineering endeavor. It is useless to create if you cannot explain and disseminate your creation and the knowledge it encapsulates. This is a senior-level course. You are expected to write clearly and concisely.