Syllabus

Coordinates:
Time: 1:10pm - 2:00pm, Tuesdays
Location: Olhmsted 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:

<table>
<thead>
<tr>
<th>week</th>
<th>Friday Due Date</th>
<th>Group Deliverable</th>
<th>Individual Deliverable</th>
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<tbody>
<tr>
<td>1</td>
<td>10/7</td>
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<tr>
<td>2</td>
<td>10/14</td>
<td>Wander Behavior</td>
<td>Assessment Report</td>
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<td>3</td>
<td>10/21</td>
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<td>4</td>
<td>10/28</td>
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<td>Assessment Report</td>
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<td>5</td>
<td>11/4</td>
<td>Design Specification</td>
<td>Assessment Report</td>
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<td>6</td>
<td>11/11</td>
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<td>Assessment Report</td>
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<td>7</td>
<td>11/18</td>
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<td>8</td>
<td>11/25</td>
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<td>Assessment Report</td>
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<td>9</td>
<td>12/2</td>
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<tr>
<td>Finals</td>
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<td>Oral Presentation</td>
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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%
- Self Assessments 10%
- Final report 20%
- Completed project 20%
- Design Specification 10%
- Peer Assessments 10%
- Oral presentation 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.