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| --- | --- |
|  | 88-3XX Human and Machine Decisions |
| **Meeting Days, Times, Location:** [###] |
| **Semester:** Spring**, Year: 2024** |
| **Units:** [#]**, Section(s):** [#] |

**Instructor information**

|  |  |
| --- | --- |
| **Name** | Tyler Malloy |
| **Contact Info** | tylerjmalloy@cmu.edu |
| **Office location** | Porter Hall 223-G |
| **Office hours** |  |

**TA Information [If applicable]**

|  |  |
| --- | --- |
| **TA name** |  |
| **TA Contact Info** | [Include information for TA’s preferred method of contact here] |
| **Office location** | [Will the TA be located somewhere other than your office] |
| **Office hours** |  |

# **Course Description**

* What will students learn (i.e., knowledge or skills as opposed to topics) in your course? How will this information help them develop as scholars, learners, or future professionals? What will students experience in the course (e.g., instructional methods, assessments, etc.)?
* Are there any prerequisites for your course?

# **Learning Objectives**

* What, specifically, will students be able to do or demonstrate once they’ve completed the course? Identify 3-8 course-level learning objectives for the course syllabus.

# **Learning Resources**

* What materials are required for your course (e.g., textbooks, software, lab equipment, etc.)?

# **Assessments**

The final course grade will be calculated using the following categories:

|  |  |
| --- | --- |
| **Assessment** | **Percentage of Final Grade** |
| Weekly In-Class Assignments | 10% |
| Bi-Weekly Assignments | 20% |
| Mid-term Project | 20% |
| Final Project | 50% |

* Weekly quizzes will test the knowledge and understanding of course readings.
* [Brief description of assessment 2]
* [Brief description of assessment 3]

Students will be assigned the following final letter grades, based on calculations coming from the course assessment section.

|  |  |
| --- | --- |
| **Grade** | **Percentage Interval** |
| A | 90-100% |
| B | 80-90% |
| C | 70-80% |
| D | 60-70% |
| R (F) | <60% |

# **Grading Policies**

* **Late-work policy**: Completion of in-class assignments is required before the next class, the lowest 2 assignments will be dropped. Bi-weekly assignments
* **Make-up work policy**: Will you allow students to make-up assignments and/or assessments? If so, how should they request to make-up the work (e.g., in writing, at least 24-hours prior to the due date, etc.)? Will you require any sort of documentation (e.g., doctor’s note)?
* **Re-grade policy**: If students ask you to re-grade their work, will you? If so, how should they request a re-grade (e.g., in writing, in office hours, within one week of receiving the graded assignment)?
* **Attendance and/or participation policy**: Is attendance and/or participation a graded component of your course? If so, how will you measure student performance (e.g., a sign-in sheet, a tally sheet, etc.)?

# **Course Policies**

* **Attendance & Participation** (if applicable): Is attendance and/or participation a graded component of your course? If so, how will you measure student performance
* **Academic Integrity & Collaboration**: How is the policy motivated by the positive dimensions of academic integrity? What is and is not permitted with respect to collaboration and/or outside assistance for each type of graded work in your course?
* **Late-work/Make-up work policy**: Will you accept late work? If so, up until when? Will you deduct points for late work, and if so, how many? Will you require any sort of documentation
* **Accommodations for students with disabilities**: Sample Text *“If you have a disability and require accommodations, please contact Catherine Getchell, Director of Disability Resources, 412-268-6121, getchell@cmu.edu. If you have an accommodations letter from the Disability Resources office, I encourage you to discuss your accommodations and needs with me as early in the semester as possible. I will work with you to ensure that accommodations are provided as appropriate.”*
* **Statement on student wellness**: Sample Text *“As a student, you may experience a range of challenges that can interfere with learning, such as strained relationships, increased anxiety, substance use, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may diminish your academic performance and/or reduce your ability to participate in daily activities. CMU services are available, and treatment does work. You can learn more about confidential mental health services available on campus at:*[*http://www.cmu.edu/counseling/*](http://www.cmu.edu/counseling/)*. Support is always available (24/7) from Counseling and Psychological Services: 412-268-2922.”*
* **Mobile Devices**: Are there times when having a mobile device would benefit student learning? If you have a zero tolerance policy for mobile devices, how will you enforce it?

# **Course Schedule**

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| --- | --- | --- | --- |
| **Date** | **Theme/Topic** | **Learning Outcomes Addressed** | **Assignments Due** |
|  | Cognitive Modelling |  |  |
|  | Human Learning and Decision Making |  |  |
|  | Artificial Learning and Decision Making |  |  |
|  | Psyhological Experimentation |  |  |
|  | Instance-Based Learning Theory |  |  |
|  | ShinyIBL |  |  |
|  | Introduction to Python Programming |  |  |
|  | PyIBL |  |  |
|  | Reinforcement Learning Theory |  |  |
|  | Intro: RL with Python |  |  |
|  | Deep RL with Python |  |  |
|  | Applications of Cognitive Models |  |  |