

# CSCI 482R: Interdisciplinary Project

Fall 2020

**You \*\*MUST\*\* be an Interdisciplinary option student and have taken ESO 322 (co-requisite is ok) to take this course –no exceptions.**

Date	Event	Activities
08.20	Class Introduction	Start looking for project partners. Presentations from potential project sponsors
08.27	Software Factory projects	Presentations from potential project sponsors
09.03	<b>No class</b>	
09.10	Other potential projects	Projects/Partners <b>must</b> be chosen Class will be via WebEx: <a href="https://montana.webex.com/meet/c57c274">https://montana.webex.com/meet/c57c274</a>
09.17	<b>No class</b>	
09.24	All groups must be formed and projects selected	Prepare to discuss a high-level overview of your project and share with the rest of the class
10.01	<b>No class</b>	<b>HW:</b> Email a half page/description abstract of your project to Clem. Make sure you include all team member names. (10%)
10.08	Writing a Technical Report Writing a proposal	
10.15	<b>No class</b>	
10.22	Discuss progress on proposals	<b>HW:</b> Send 2 or 3 slides to Clem by the start of the week (5%)
10.29	<b>No class</b>	
11.05	Proposals. <b>No class</b>	<b>HW:</b> Preliminary proposal portfolio due. Deliver printed copy to CS office or place in Clem's mail cubby.
11.12	Hand in proposals & presentations	10 min. presentations (15%)
11.19	Hand in proposals & presentations	<b>HW:</b> Final proposals due (70%) 10 min. presentations (15%)

## Potential Meeting Times

- Thursdays 14:05 - 14:55 p.m. in NAH 165.
- Masks required.

- Note that **\*\*we do not meet every Thursday\*\***. You must attend class, and it will be taken into consideration on your final grade.

## Instructors

- [Clem Izurieta](#). NAH 253D. 994-3720. Office hours are by appointment at my WebEx room: <https://montana.webex.com/meet/c57c274>

## Course Outcomes

At the end of the course, students should be able to

- Create a professional portfolio with a complete design ready for implementation in CSCI 483R
- Understand how to write an effective proposal
- Understand how to make an effective presentation
- Understand how to write an effective report

## Grading

- 70% - submit a well written technical proposal that describes your intended project. The proposal should contain the following sections (**Please note** that in some cases, some sections will be merged, and in others, some sections may not be relevant):
  - Introduction: What problem are you trying to solve
  - Qualifications: Include all team member resumes (1 page each)
  - Background: Provide any special knowledge needed to understand your proposal. Are there other tools, research, projects that tackle this issue? How is your work different? Full citations are expected.
  - Work Schedule: What to expect from whom. Assign responsibilities and describe your milestones. Describe your lifecycle approach and justify it.
  - Proposal Statement: Describe your project and include the following sub sections: (1) functional and non-functional requirements (2) performance requirements (3) interface requirements (4) architectural design documents and (5) development standards, tools used, etc.
  - Methodology: Include the following subsections under architectural design documents:
    - (1) UML diagrams and any other relevant designs. Provide Use case, Class, and Component diagrams.
    - (2) Identify one or more design patterns that you will use in the implementation
    - (3) Discuss the various design tradeoffs and decisions that you make (at the design level)
  - Expected Results
  - References

- 10% - Abstracts
- 5% - Slides for discussion
- 15% - demonstrate and submit a well-constructed 10 min. power point presentation.