Text: There is no required textbook for this class. Readings will be assigned from various resources throughout the semester.

Course Description
This class is a continuation of your senior CS capstone experience. It provides the opportunity for you to coalesce the technical skills you have acquired during your time in our program, but also to develop additional crucial skills like project management, time management, leadership, professionalism, communication, and team building. This semester, you will continue work on your group project, focusing now on implementation and testing. You will also continue to work with and report to your client throughout the semester. At the end of the semester, you will make a formal presentation of the software you developed.

Student Learning Outcomes
Upon successful completion of this class, students should have an ability to:
1. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program’s discipline.
2. Communicate effectively in a variety of professional contexts.
3. Function effectively as a member or leader of a team engaged in activities appropriate to the program’s discipline.

Prerequisites
The prerequisite for this class is CSCI 426, or consent of the instructor. Prerequisites will be waived only under exceptional circumstance.

Course Evaluation: Your grade for the course will be determined by the following elements. Some of these elements are individually-based, and others are group-based. For group-based items, all team members will receive the same grade unless I learn that some are not contributing equally. In those cases, I reserve the right to downgrade certain team members.

[team grade]
Implementation Phase plan: (5%)
Very early in the semester, your team will submit an implementation plan for the rest of the semester. This plan will outline the system functionality to be completed by each of the checkpoints throughout the semester (see below). While your plan will be assessed, in part, based on ambition, you should strive to submit realistic implementation goals.
Software Deliverable: (45%)

The majority portion of your grade this semester will be determined by the quality and completeness of the software you are developing. Measures will be taken, and grades assigned, at 4 checkpoints throughout the semester:

<table>
<thead>
<tr>
<th>Implementation Checkpoint</th>
<th>Date (Thursday @ 11pm)</th>
<th>Grade %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phase 1</td>
<td>Week 5</td>
<td>10%</td>
</tr>
<tr>
<td>Phase 2</td>
<td>Week 8</td>
<td>10%</td>
</tr>
<tr>
<td>Phase 3</td>
<td>Week 12</td>
<td>10%</td>
</tr>
<tr>
<td>Phase 4</td>
<td>Week 15</td>
<td>15%</td>
</tr>
</tbody>
</table>

Written deliverables: (15%)

There will be significantly less formal documentation this semester as compared to last. However, your team will be required to prepare and submit software testing documentation, including UI testing, and a transition plan.

Progress reports: (5%)

These will happen frequently throughout the semester. You will meet with the class instructor to present a formal update on team progress. All group members must be present for these status updates. If you are absent, you will receive a zero for that update.

Class attendance: (5%)

While there will be class periods where I present and we discuss topical materials in a more traditional format, there will also be many other periods dedicated to status updates, group work, and client meetings. Students are expected to attend all class periods. Attendance will be taken and it will count substantially towards your final grade. If you are late for class, attendance points will be deducted. You shouldn’t be late for, or miss, a meeting with the client, so don’t be late for, or miss, a meeting with the class. If your attendance is affected by Covid-19 or other illness in any way, please just let the instructor know ahead of time. Special consideration will be allowed in these circumstances and attendance point deductions will be waived for any class periods missed due to illness.

Class engagement: (10%)

As this is a project-based class, significant time will be allocated for you to meet and work with your group during regular class hours. This ensures accountability to your teammates, and to me, and it provides us with a consistent period each week that is free from scheduling conflicts. At the conclusion of each class group meeting time, your team will submit a brief document outlining what was accomplished during the meeting and by whom. If you are absent during one of these group meetings without prior approval from your instructor, you will not receive credit for that week.

In addition to your engagement in weekly group meetings, your peers will also evaluate your contributions to the team approximately 3 times this semester. That will also contribute to your overall class engagement grade.

Lastly, your time contributions to your project as entered into TeamGantt will be assessed a couple of times per semester. This will also factor into your class engagement grade.
Client Evaluation: (10%)
Two or three times throughout the semester, I will ask your client(s) to evaluate your team.

Final Presentation: (5%)
At the end of the semester, your team will give a formal presentation.

Graduate Increment
If you are a graduate student enrolled in this course, you must complete the following additional work to satisfy the required graduate increment. These requirements will count towards your class engagement grade.

1. Take over as team leader as requested by the Instructor.
2. Conduct research on a topic germane to the course and prepare a 30-40 minute presentation for the rest of the class.

Academic Dishonesty
All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University. All students need to be familiar with the Student Conduct Code. The Code is available for review online at http://www.umt.edu/vpesa/Dean%20of%20Students/default.php

Additional class policies and information:

- If you miss a class, you and you alone are responsible for the material covered. This includes handouts, schedule changes, and lecture notes.
- For important dates and deadlines related to classes, visit: http://catalog.umt.edu/academics/policies-procedures
- Also in the University catalog, review the policy on in completes. In particular, note that in completes can only be assigned when the student has “been in attendance and doing passing work up to three weeks before the end of the semester.” Incompletes will not be issued simply to prevent a failing grade.
- Students with disabilities will receive reasonable modifications in this course. Your responsibilities are to request them from me with sufficient advance notice, and to be prepared to provide verification of disability and its impact from Disability Services for Students. Please speak with me after class or during my office hours to discuss the details. For more information, visit the Disability Services for Students website at http://www.umt.edu/disability.

Questions? Email yolanda.reimer@umontana.edu