1. **Course:** SENG 513, Web-Based Systems - Winter 2024

   Lecture 01: TR 09:30 - 10:45 in ICT 121

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Email</th>
<th>Phone</th>
<th>Office</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steve Sutcliffe</td>
<td><a href="mailto:steve.sutcliffe@ucalgary.ca">steve.sutcliffe@ucalgary.ca</a></td>
<td>403 220-7745</td>
<td>ICT 708</td>
<td>By Appointment</td>
</tr>
</tbody>
</table>

   To account for any necessary transition to remote learning for the current semester, courses with in-person lectures, labs, or tutorials may be shifted to remote delivery for certain periods of time. In addition, adjustments may be made to the modality and format of assessments and deadlines, as well as to other course components and requirements, so that all coursework tasks are in line with the necessary and evolving health precautions for all involved (students and staff).

   **In Person Delivery Details:**

   This course is being offered in person. Students should attend all lectures and tutorials and actively participate in discussions and activities. Course material will be posted in D2L. Assignments and projects will be submitted electronically. All materials presented and posted on D2L must not be shared, distributed or published without the instructor's permission.

   **Course Site:**

   D2L: SENG 513 L01-(Winter 2024)-Web-Based Systems

   **Note:** Students must use their U of C account for all course correspondence.

   **Equity Diversity & Inclusion:**

   The University of Calgary is committed to creating an equitable, diverse and inclusive campus, and condemns harm and discrimination of any form. We value all persons regardless of their race, gender, ethnicity, age, LGBTQIA2S+ identity and expression, disability, religion, spirituality, and socioeconomic status. The Faculty of Science strives to extend these values in every aspect of our courses, research, and teachings to better promote academic excellence and foster belonging for all.

2. **Requisites:**

   See section 3.5.C in the Faculty of Science section of the online Calendar.

   **Prerequisite(s):**

   3 units from Software Engineering 300, 301 or Software Engineering for Engineers 480.

3. **Grading:**

   The University policy on grading and related matters is described in F.1 and F.2 of the online University Calendar.

   In determining the overall grade in the course the following weights will be used:
<table>
<thead>
<tr>
<th>Course Component</th>
<th>Weight</th>
<th>Due Date (duration for exams)</th>
<th>Modality for exams</th>
<th>Location for exams</th>
</tr>
</thead>
<tbody>
<tr>
<td>Group Formation Deadline</td>
<td>0%</td>
<td>Jan 22 2024</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Assignment 1¹</td>
<td>5%</td>
<td>Jan 30 2024</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Project: Proposal</td>
<td>10%</td>
<td>Feb 05 2024</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Repository Setup²</td>
<td>0%</td>
<td>Feb 09 2024</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Assignment 2³</td>
<td>5%</td>
<td>Feb 13 2024</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Project: Mock-ups</td>
<td>10%</td>
<td>Feb 16 2024</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Docker-compose file⁴</td>
<td>0%</td>
<td>Mar 01 2024</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Assignment 3⁵</td>
<td>10%</td>
<td>Mar 05 2024</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Database Schema and Seeding Script⁶</td>
<td>0%</td>
<td>Mar 15 2024</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Assignment 4⁷</td>
<td>10%</td>
<td>Mar 19 2024</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Technical Presentation⁸</td>
<td>10%</td>
<td>Mar 19 2024</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Front-end Implementation⁹</td>
<td>0%</td>
<td>Mar 28 2024</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Project: Submission and Demos</td>
<td>40%</td>
<td>Apr 09 2024</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

¹ Due during your respective tutorial session.
² Submissions directly impact the final project mark.
³ Due during your respective tutorial session.
⁴ Submissions directly impact the final project mark.
⁵ Due during your respective tutorial session.
⁶ Submissions directly impact the final project mark.
⁷ Due during your respective tutorial session.
⁸ Technical presentations begin.
⁹ Submissions directly impact the final project mark.

Each piece of work (reports, assignments, quizzes, midterm exam(s) or final examination) submitted by the student will be assigned a grade. The student's grade for each component listed above will be combined with the indicated weights to produce an overall percentage for the course, which will be used to determine the course letter grade.

The conversion between a percentage grade and letter grade is as follows.

<table>
<thead>
<tr>
<th>Minimum % Required</th>
<th>A+</th>
<th>A</th>
<th>A-</th>
<th>B+</th>
<th>B</th>
<th>B-</th>
<th>C+</th>
<th>C</th>
<th>C-</th>
<th>D+</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>95%</td>
<td>90%</td>
<td>85%</td>
<td>80%</td>
<td>75%</td>
<td>70%</td>
<td>65%</td>
<td>60%</td>
<td>55%</td>
<td>50%</td>
<td>45%</td>
</tr>
</tbody>
</table>

Assignments must be demonstrated to the TA's during your scheduled tutorial sessions. If you need to submit an assignment late, you must arrange this directly with your TA, subject to their availability. Late assignments will be graded on a simplified scale: they will receive either a passing grade of D+ (50%) or a failing grade of F (0).

For submissions that directly affect the final project, a late penalty will be applied at the rate of 1% per day of the final project's total grade up to a maximum of 5%.

In cases of special circumstances, such as illness or personal emergencies, accommodations may be made regarding submission deadlines. These will be considered on a case-by-case basis. Students facing such circumstances are encouraged to contact me as soon as possible to discuss potential adjustments.

The University of Calgary offers a flexible grade option. Credit Granted (CG) to support student's breadth of learning and student wellness. Faculty units may have additional requirements or restrictions for the use of the CG grade at the faculty, degree or program level. To see the full list of Faculty of Science courses where CG is not eligible, please visit the following website: https://science.ucalgary.ca/current-students/undergraduate/program-advising/flexible-grading-option-cg-grade

4. Missed Components Of Term Work:

In the event that a student legitimately fails to submit any online or in-person assessment on time (e.g. due to illness, domestic affliction, etc...), please contact the course coordinator, or the course instructor if this course does not have a coordinator to arrange for a re-adjustment of a submission date, or possible exemption and reweighing of components. Absences not reported within 48 hours will not be accommodated. Students may be asked to provide supporting documentation (Section M.1) for an excused absence, See FAQ.

If an excused absence is approved, options for how the missed assessment is dealt with is at the discretion of the coordinator or course instructor. Some options such as an exemption and pro-rating among the components of the course may not be a viable option based on the design of this course.
5. **Scheduled Out-of-Class Activities:**

   There are no scheduled out of class activities for this course.

6. **Course Materials:**

   Course materials will be available on D2L.

   In order to successfully engage in their learning experiences at the University of Calgary, students taking online, remote and blended courses are required to have reliable access to the following technology:
   
   - A computer with a supported operating system, as well as the latest security, and malware updates;
   - A current and updated web browser;
   - Webcam/Camera (built-in or external);
   - Microphone and speaker (built-in or external), or headset with microphone;
   - Current antivirus and/or firewall software enabled;
   - Stable internet connection.

   For more information please refer to the UofC [ELearning](#) online website.

7. **Examination Policy:**

   No aids are allowed on tests or examinations.

   Students should also read the Calendar, [Section G](#), on Examinations.

8. **Approved Mandatory And Optional Course Supplemental Fees:**

   There are no mandatory or optional course supplemental fees for this course.

9. **Writing Across The Curriculum Statement:**

   For all components of the course, in any written work, the quality of the student's writing (language, spelling, grammar, presentation etc.) can be a factor in the evaluation of the work. See also [Section E.2](#) of the University Calendar.

10. **Human Studies Statement:**

    Students will not participate as subjects or researchers in human studies.

    See also [Section E.5](#) of the University Calendar.

11. **Reappraisal Of Grades:**

    A student wishing a reappraisal, should first attempt to review the graded work with the Course coordinator/instructor or department offering the course. Students with sufficient academic grounds may request a reappraisal. Non-academic grounds are not relevant for grade reappraisals. Students should be aware that the grade being reappraised may be raised, lowered or remain the same. See [Section I.3](#) of the University Calendar.

    a. **Term Work:** The student should present their rationale as effectively and as fully as possible to the Course coordinator/instructor within **ten business days** of either being notified about the mark, or of the item's return to the class. If the student is not satisfied with the outcome, the student shall submit the Reappraisal of Graded Term work form to the department in which the course is offered within 2 business days of receiving the decision from the instructor. The Department will arrange for a reappraisal of the work within the next ten business days. The reappraisal will only be considered if the student provides a detailed rationale that outlines where and for what reason an error is suspected. See sections [I.1](#) and [I.2](#) of the University Calendar.

    b. **Final Exam:** The student shall submit the request to Enrolment Services. See [Section I.3](#) of the University Calendar.

12. **Other Important Information For Students:**

    a. **Mental Health** The University of Calgary recognizes the pivotal role that student mental health plays in physical health, social connectedness and academic success, and aspires to create a caring and supportive campus community where individuals can freely talk about mental health and receive supports when needed. We encourage you to explore the mental health resources available throughout the university community, such as counselling, self-help resources, peer support or skills-building available through the SU Wellness Centre (Room 370, MacEwan Student Centre, [Mental Health Services Website](#)) and the Campus Mental Health Strategy website ([Mental Health](#)).

    b. **SU Wellness Services:** For more information, see their [website](#) or call 403-210-9355.

    c. **Sexual Violence:** The Sexual Violence Support Advocate, Carla Bertsch, can provide confidential support and information
by the end of the course, students should be able to apply design and usability principles to website design.

By the end of the course, students should be able to apply web-based technologies (CSS, JavaScript, PHP, MySQL, Ruby on Rails, and Node) to build web-based systems.

By the end of the course, students should be able to identify the benefits and drawbacks of using different web-based technologies.

By the end of the course, students should be able to apply design and usability principles to website design.

By the end of the course, students should be able to describe different mobile strategies, identify their benefits and

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Department Approval

drawbacks, and apply them to build websites that look good and work well on mobile devices.