**CMPT221L – Software Development II**

**Syllabus updated – Sept 19, 2019**  
**Andrew Tokash**

**Lecture: Mondays & Thursdays, 2:00-3:15 HC 1021**

**Lab: Wednesdays, 2:00-3:15 HC 0005**

**1. Faculty Availability**

Office Hours: **Hancock 3002**   Mondays 12:45-1:45 Thursdays 12:00-2:00

Tuesdays 11:00-12:00, 2:00-4:00

**Please use iLearn messaging for all course-related communications.** (Do not use Marist e-mail.) There is also an iLearn forum for general questions on material, expectations, etc.

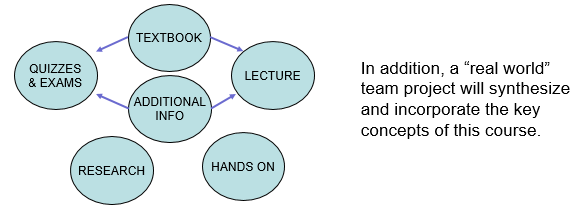
**2. Catalog Course Description**

This course builds on CMPT 220 to continue our students' progress towards true software craftsmanship. Students will study advanced concepts in software design and testing while developing skills including, but not limited to, the areas of advanced server-side programming and data integration. Students will work in teams to deploy a practical system. Prerequisite: CMPT 220

At the completion of this course, students will be able to:

* implement a lost/found database and web front end using php and My SQL
* understand user requirements and reflect requirements in final project
* describe and implement cloud stack resources required for the project (servers, storage, networking, and human skills) and likely technical problems
* describe and implement 10 basic design principles as illustrated in weekly lab exercises
* describe code sustainability and maintenance principles, including proper code documentation, unit test cases, security penetration testing, and sanitizing all inputs
* describe and Implement Fundamental Principles used in the project including page redirect, secure sign-on, eye-dropper principle, database search

**3. Educational Approach / Philosophy of Education**



**4. Required Text and Personal Laptop for Lab Exercises**

* “PHP & MySQL in Easy Steps” by Mike McGrath serves   
  Note: Second edition features SQL version 8!
* Free software: Abyss Web Server, PHP, MYSQL
* Please refer to my website for links to articles, videos, and other resources   
   https://sites.google.com/view/andrewtokash/home

**5. Course Evaluation**

10% Class Attendance and participation

10% Lab Assignments – there are 10 individual or team labs

25% Midterm

25% Final

30% Semester Project

25% Requirements (assignment 1)

25% Design (assignments 2, 3)

25% Build (assignment 4)

25% Demo/testing (assignment 5)

The aggregate grading policy for midterm and final grades will be the standard Marist grading system, and will be displayed in the iLearn gradebook. Please continuously monitor your iLearn grade and contact me for any questions. Do not wait until final weeks to bring up any issues.

**All assignments are to be submitted by the due date specified.** Late submissions – if accepted – will have a 20% penalty.   
Make-up opportunities for assignments, assessments, and exams are provided only for verifiable extenuating circumstances cleared through CAAS. Acceptable excuses for late submission of assignments include situations covered in the Student-Athlete Handbook, illness, and serious extenuating circumstances (e.g., death in the family, serious illness).

NOTE: I generally do not provide extra-credit or make-up assignments.

**6. Class Attendance Policy**

Students are expected to attend all classes and to actively participate in classroom activities and discussions.

Cell phones and laptops are not allowed during lecture class time. Laptops/tablets may only be used during labs.

**7. Semester schedule**

Below is the tentative semester schedule. It is a work in progress and will change through the semester. The “CLASS NOTES” file in iLearn will be updated and will reflect the current schedule. I will display it at the start of each class.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Wk | Date | Topic(s) | Subtopic(s) | Chapter |
| 1 | 26-Aug | Course intro & Lab 1 | Protocol stack, HTML5, DOM, WAMP | 1 |
| 2 | 2-Sep | Gathering requirements & Lab 2 & Assign. 1 | User stories |  |
| 3 | 9-Sep | Creating users databases - part 1 & Lab 3 | MySQL Assembling tables | 5 |
| 4 | 16-Sep | Creating users databases - part 2 & Lab 4 & Assign. 2 | MySQL Handling data | 6 |
| 5 | 23-Sept | Creating users databases - part 3 & Lab 5 | PHP ops, connecting to MySQL | 2 & 7 |
| 6 | 30-Sept | Providing a register page & Lab 6 | PHP control, forms | 3 & 4 |
| 7 | 7-Oct | **Midterm Exam** | PHP forms | 4 |
| 8 | 14-Oct | Processing registrations & Lab 7 & Assign. 3 | PHP security |  |
| 9 | 21-Oct | Providing login page, supplying login tools & Lab 8 | PHP cookies |  |
| 10 | 28-Oct | Processing login attempts, confirming login success & Lab 9 & Assign. 4 | Good programming style |  |
| 11 | 4-Nov | Project & Lab 10 | Testing |  |
| 12 | 11-Nov | Project & Assign. 5 | Debugging |  |
| 13 | 18-Nov | No Class (Thanksgiving) | Demos |  |
| 14 | 25-Nov | Project | Demos |  |
| 15 | 2-Dec | Project | Demos |  |
| 16 | 9-Dec | **Final Exam Week** (may be moved to last day of class) |  |  |

**8. Rubric/Core Competencies**

Listed in the iLearn Resources (filename: “Class Notes”) lists the core competencies successful students will be expected to acquire, and these compentencies is the rubric for exam and project t grading.

**9. Academic Honesty**

Faculty will uphold and enforce the general policies of this institution on academic honesty and plagiarism. All examinations, assignments, and projects are subject to the standards of academic honesty as described in the Student Handbook and/or other related publications.

Neither plagiarism not cheating will be tolerated. If you are suspected of cheating, you will be asked to explain the work. If you cannot you will be ejected from the course with a failing grade, in addition to any other forms of recourse available to the instructor as specified by the Student Handbook.

You are encouraged to discuss the course material, concepts, and lessons with other students in the class. However, your labs, exams and discussions must be your own work. If you are caught copying or otherwise submitting material that is not solely your work, you will fail the course and a letter will be sent to the department chair.

Please consult the ACM code of ethics. See [www.acm.org/constitution/code.html](http://www.acm.org/constitution/code.html).

**10. Learning Disabilities**

Students have all types of learning disabilities. It is your responsibility to notify the professor in the beginning of the semester in order to make sure you are successful within this course! If you’re unsure whether you have a learning disability, make sure you see Special Services within Donnelly as soon as you suspect your disability.

**11. Submission Guidelines**

Assignment, lab and project files must be submitted into ILearn. Documents must follow a standard naming convention and have proper page headers. Refer to the file “Submission Guidelines” in the Ilearn Resources section.

The guidelines file also lists information on using/citing references and the difference between a 90% A and a 100% A.

**12. Steps to Getting an “A”**

1. Attend classes. If something is unclear ASK for a better/different explanation.
2. Be an active student. Take notes, listen, speak, ask questions.

Refer to: http://www.dartmouth.edu/~acskills/success/notes.html

1. Do a quick review of chapters BEFORE the class to identify confusing sections.
2. Read the chapter and review each section’s TEST YOUR UNDERSTANDING questions.
3. Do all assignments and submit them on time with proper formatting and citations. Begin assignments early in case you have questions.
4. Do not copy assignments from other students, the Internet or any other source.
5. Take your time when doing the SELF ASSESSMENTS. Review material BEFORE taking the quiz.
6. Study for the exams.
7. Work with other students and take advantage of office hours.
8. Monitor your grades weekly!

**Changes to This Syllabus**

9/19/2019 Added submission guidelines.

9/9/2019 Changed Monday office hours to 12:45-1:45

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