Syllabus INST765: Programming on the Web

Mr. David E. Patrick
Office Hours: By appointment
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Additional information about the course is available on ELMS.

Prerequisites

There are no prerequisites for this class. It is intended as an introductory class for people with no programming experience. We will learn fundamentals of syntax for the first four weeks before progressing to more focused material on internet application development. This class may not be appropriate for students with extensive programming backgrounds.

Books

There are a lot of references online so there are no required books for this class.

Learning Outcomes

By the end of this course students will:

- Develop foundational programming skills
- Design applications and basic algorithms
- Demonstrate familiarity with standard web data formats
- Use web-based services and data in applications they build

Grading

- Weekly programming assignments - 25%
- Midterm project - 15%
- Midterm Exam – 10%
- Final Project - 30%
- Weekly Quizzes - 10%
- Final Exam – 10%

Rubrics and criteria for each assignment is given with the assignment itself.
Schedule

- Week 1 – Intro to the Internet
- Week 2 – HTML, CSS
- Week 3 – Page Layouts
- Week 4 – Forms
- Week 5 – Cookies and Sessions (Video Assignment)
- Week 6 – JavaScript
- Week 7 – DOM and Events
- *** SPRING BREAK WEEK ***
- Week 8 – ASP.NET
- Week 9 – Databases
- Week 10 – ASP.NET and Databases
- Week 11 – Web Security
- Week 12 – AJAX, XML, and JSON
- Week 13 – WCF and REST
- Week 14 – Project Presentations

Each week will have a programming assignment that is due at the beginning of class the following week. In addition, there will be an online quiz.

The final project is due the final week of class. It has its own set of intermediate deadlines.

- Week 8 - Select a project
- Week 9 - Code is written and basically ready to run
- Week 11 - Data collection mostly complete
- Week 13 - Analysis mostly done, paper outline turned in
- Week 14 - Presentation to class due

Resources

https://visualstudio.microsoft.com/dev-essentials/

Academic Integrity

The University of Maryland, College Park has a nationally recognized Code of Academic Integrity, administered by the Student Honor Council. This Code sets standards for academic integrity at Maryland for all undergraduate and graduate students. As a student you are responsible for upholding these standards for this course. It is very important for you to be aware of the consequences of cheating, fabrication, facilitation, and plagiarism. Please visit the Code of Academic Integrity or the Student Honor Council, for more information.
For this class in particular, you are not permitted to collaborate on assignments except for explicitly assigned group projects and collaborative exercises. You may not turn in code written by other people (e.g. code found on the internet), you may not work together on exercises, and you may not discuss the syntax or the logic of solving problems. I have sophisticated methods to detect this kind of cheating. Students suspected of violating these rules will be referred to the honor council and will face suspension or expulsion.

Students should hand write this statement and return it to the professor in class.

Students with Disabilities

Students with disabilities needing academic accommodation should: (1) register with and provide documentation to the Disability Support Services office, and (2) discuss any necessary academic accommodation with their teachers. This should be done at the beginning of the semester.

Extensions and Late Assignments

Timeliness is extremely important in graduate work, and extensions will only be available during personal emergencies. Students who need to request an extension should discuss the matter in advance with the professor before the time the assignment is due. If an extension is granted, the work must be submitted within the extension period to avoid grade penalties.

If you have not received an extension ahead of time, for assignments turned in a day or less late, you will lose 25% of your grade. Assignments more than a day late will not be accepted.

Emergency Preparedness

Information about the status of the campus is available at Emergency Preparedness. If the campus is closed, please make sure to stay safe. Information about possible rescheduling of course activities will be provided via e-mail once the campus has reopened.

Classroom Environment

The classroom environment should be professional and respectful. Discussions should be based on course readings and critical thinking. Remember--your classmates may have different perspectives on issues than you, but they still deserve your respect. As another aspect of respect in the classroom environment, turn off or mute all phones and other communication devices during each class session. If you use your laptop in the classroom, limit the usage of the computer to course-related reasons (i.e., taking notes).