IS 218 Web Systems Development

Section 004 / CRN 13508

Location/Days

- CKB 120
- Tues/Thurs 4 PM

Professor

- Thomas Licciardello
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- Office hours by appointment, please email for coordination (virtually gives more options)
- Email is the preferred contact method, please allow 24-48 hours for response, or emergencies, please mark email as such with importance.

Resources

- No Book, we'll use websites, tutorial pages, and templates will be given for content and exercises
- Training module: Udemy Django Frameworks course highly recommended and used during the course: we will go over in class. https://www.udemy.com/course/python-django-the-practical-guide/

Course Summary & Objectives

(Pre-Requisite- no)

This course provides a critical, hands-on introduction to the design of Web-based Information Systems. We will explore and discuss emerging trends, capabilities, and limitations of web technologies used to capture, store, access, and disseminate information for both businesses and online communities. Students will design and develop different types of web applications, which will then be analyzed and critiqued for usability in actual public and private settings.

You will also learn/do: the evolutions of the web, advanced HTML/CSS, python basics and as it pertains to web frameworks, command line activities, package installs, Django framework install, virtual environments, API's, forms, database connections, MVC architecture, authentication/authorization.

You will perform research on web frameworks, do hands on activities with HTML/CSS, Python, Django administration. You will also use tools such as Git for version and source code control, learn the basics of project management, business analysis, secure coding practices and manage a term project beginning to end.

Grading

- Participation / Attendance = 10%
- 3 Tests/Quiz = 50%
- Individual Exercises = 20%
- Group Team(term) Projects = 20%

Policies

Academic Integrity

Students are expected to follow the University Policy on Academic Integrity. Any code used from an online resource should be cited in a comment. Any attempts to present other people's code as your own will be viewed as plagiarism. All violations of the Academic Integrity policy will be referred to the Dean of Students for review and possible disciplinary action.

Canvas

Students should monitor and use canvas for pertinent class information, announcements, weekly module contents, assignments etc...

Late Assignment Policy

Assignments that are turned in late (after the due date/time) will be subject to penalty as follows 5% after due date, and subject to further % penalty for days/weeks late…. If you are having issues or need additional time due to extreme circumstance, please let me know so we can coordinate.

Requesting Accommodations

If you are in need of accommodations due to a disability please contact the Office of Accessibility Resources & Services (OARS), Fenster Hall Room 260 to discuss your specific needs. A Letter of Accommodation Eligibility from the OARS authorizing your accommodation will be required.

Resources for NJIT Students

NJIT Service for Students, including Technical Support.

Class Etiquette

Students who are the most successful attend and participate in class. If you have questions, please ask them. This makes the class more dynamic and interesting for everyone.

Proctoring/Exams

NJIT policy requires that all midterm and final exams must be proctored, regardless of delivery mode, in order to increase academic integrity. Note that this does not apply to essays or authentic based assessments. Effective beginning Fall semester 2019, students registered for a fully online course section

(e.g., online or Hyflex mode) must be given the option to take their exam in a completely online format, with appropriate proctoring.

Since our class is in person Exams will be given in-person using Respondus lockdown browser. Be sure to bring your laptop and charger on the day of exams, as the test will be delivered via Canvas. If the test needs to be moved off-line (weather/ emergency) the test will utilize the Respondus online proctoring feature with webcams on.

Outline – this is subject to change, and meant just as a guide, please use Canvas weekly modules section for actual week by week activities.

Week 1 - Week 1 Slides Class Intro.pptx
Week 2 - Week 2 Slides HTML - CSS Basics.pptx - Assignment HTML
Week 3 - Week 3 Slides - Tools CLI GUI IDEs Coding.pptx
Week 4 - Week 4 Slides - GIT Repos.pptx
Week 5 - Early Semester Test 1 - Week 5 Slides - Python Basics.pptx
Week 6 - INTRO TERM PROJECT - Week 6 Slides - Python Part 2.pptx
Week 7 - Week 7 Slides - Python Basics Part 3.pptx - Assignment - Python
Week 8 - Mid-Term - Week 8 Slides - Database Mgmt.pptx
Week 9 - Web Frameworks Lectures & Lab Series - Udemy: Django Course HW
Week 10 - Lab 1 DJango Intro.docx - Assignment Lab 1 - Udemy Homework Suggestions
Week 11 - Week 11 Slides - SVD and SDLC Best Practice.pptx - Assignment Lab 2 Working with Templates, CSS & Forms.docx
Week 12 - Assignment Lab 3 Admin panel

Week 13 - Week 13 Slides - PM Basics.pptx
Week 14 -Week 14 Slides - Secure Coding Best Practices.pptx
Week 15 Final Deliverables