

# Thaddeus Stevens College of Technology

**Course: CSET 105 - Introduction to Web Applications**

**Classroom: Greenfield Campus, West**

**Semester: Fall 2019**

**Schedule: Mon 12:00 - 4:30 pm**

**Tue 12:00 - 4:30 pm**

**Instructor: Zach Fedor**

**Office Location: Greenfield Campus, West**

**Email: [fedor@stevenscollege.edu](mailto:fedor@stevenscollege.edu)**

**Office Hours: Thur 9:00 - 12:00 am**

## **Catalog Description:**

The course provides an introduction to the basic tools, processes, and workflow in the development of web applications. Students will cover version control, using the command line, and an introduction to automated testing during development. The course meets during the first eight weeks of the semester.

- Credit Hours: 3
- Lecture Hours per Week: 2.5
- Lab Hours per Week: 3.75

## **Learning Outcomes:**

Upon successful completion of the course, the student will be able to:

- Choose the best tools to address a given project
- Demonstrate the full spectrum of a project workflow
- Employ the most effective project methodology
- Describe the concepts and basic implementation of automated testing
- Explain the importance of automated testing
- Discuss the various concepts of version control, with emphasis on git
- Describe the different git workflow options (single dev vs team)
- Employ at least one git visual option in web development
- Discuss the command line and its purpose
- Demonstrate the most commonly used commands in web development

## **Prerequisites:**

- None

## **Minimum Grade Required**

**Schedule:**

WEEK	TOPIC	COMMENTS
1	Introduction to Programming Concepts	Computer Setup
2	Command Line Basics	
3	Intro to Version Control	
4	Github and Workflows	
5	Advanced Git	
6	Project Methodologies	
7	Bash Scripting	
8	Automated Testing	
9	-	Midterm Project Due
10 - 16	-	CSET-115
17	-	Final Project Due

**Required Tools:**

MacBook Pro - 2.5GHz

**Teaching Strategies:**

This course is a lecture/lab course. Concepts will be introduced via presentations and students will be provided time and guidance to develop projects in a workshop setting.

**Grading:**

50% - Labs

25% - Participation

25% - Quizzes

**Classroom Policies:**

- Above all, be respectful.
- Check your school email daily. The college, the administration, and myself will send out important information that you need to know about. Not seeing the email is not an excuse.
- Be prepared for class every day with a notebook, writing instrument, and your laptop and charger. A failure to be prepared is not an excuse to miss class or assignments.

**Attendance:**

- **Attendance is required.** Students who miss class will receive a zero for that day's participation, as well as projects that were due or scheduled quizzes. Projects will not be accepted late.
- Two unexcused absences will be reported to the Vice President of Academic Affairs. More than five unexcused absences may result in dismissal from the program.

- Students must communicate with instructor prior to their absence, via email or chat program, in order to be excused for their absence according to the discretion of the instructor. The only exception is for medical emergencies, car accidents, or bereavement. Scheduled doctor's appointments are not medical emergencies.

**Plagiarism and Cheating:**

- Collaboration and pair programming are an integral part of the computer science field and will be encouraged in class.
- However, taking credit for someone else's work is not. Presenting someone else's work, even small portions of it, as your own original work without proper attribution is considered plagiarism.
- Quizzes may contain open-book (or open-computer) portions. Using a computer or other outside help for closed-book portions is considered cheating.

Students will receive **a grade of zero for the first instance of cheating or plagiarism** on any quiz or project. **A second instance will be grounds for dismissal.**

**Students with Disabilities requesting Accommodations:** The Americans with Disabilities Act and Amendment Act of 2009 states that students may be eligible for accommodations that do not alter the essential skills required for a course or program of study. Students must meet with the Accessibilities Coordinator to discuss their challenges and provide documentation from a qualified professional to be approved. For further information see, Debra Schuch, Counselor/Accessibilities Coordinator, Hartzel 101 between 8:30- 4:30 weekdays. Phone 717-299-7408 or email [schuch@stevenscollege.edu](mailto:schuch@stevenscollege.edu) to schedule an appointment.

**COLLEGE'S STATEMENT OF ACADEMIC INTEGRITY**

- Recognizing the importance of academic integrity to the Thaddeus Stevens College of Technology community, the College Academic Policies & Standards Committee adopted a new Academic Integrity policy, Spring 2007. The shared conviction, represented in the procedures that follow, is that academic integrity is best taught and reinforced by faculty as an element of the teaching and learning process. Only in the limited instances in which faculty believe that disciplinary, as well as academic, sanctions are called for should the process move to the Vice President of Academic Affairs.
- Definition and expectations: Academic integrity is the pursuit of scholarly activity in an open, honest and responsible manner. Academic integrity is a basic guiding principle for all academic activity at Thaddeus Stevens College of Technology, and all members of the College community are expected to act in accordance with this principle. Consistent with this expectation, College's Code of Conduct demands that students conduct themselves in a responsible manner that corresponds to acceptable and mature adult standards of behavior and comply with all College regulations and directives. All students should act with personal integrity, respect other students' dignity, rights and property, and help create and maintain an environment in which all can succeed through the fruits of their efforts.

- Academic integrity includes a commitment not to engage in or tolerate acts of falsification, misrepresentation or deception. Such acts of dishonesty violate the fundamental ethical principles of the College community and compromise the worth of work completed by others.
- To protect the rights and maintain the trust of honest students and support appropriate behavior, faculty and administrators should regularly communicate high standards of integrity and reinforce them by taking reasonable steps to anticipate and deter acts of dishonesty in all assignments. At the beginning of each course, it is the responsibility of the instructor to provide students with a statement clarifying the application of College academic integrity policies to that course.
- Academic Honesty: Section 7324 of the Crimes Code of Pennsylvania makes it a misdemeanor of the 3<sup>rd</sup> degree to sell or offer for distribution any dissertation, thesis, term paper, essay, report, or other written assignment, or to sell or offer for distribution any assistance in the preparation of such assignments, for submission to an educational institution to meet the requirements for a degree, diploma, certificate, or course of study. (Assignment is defined as a written, recorded, pictorial, artistic, or other academic task. To prepare is defined as to create, write, or in any way produce in whole or substantial part any such assignment.)
- The law does not prohibit an educational institution or members of its faculty and staff from offering instruction or instructional services as part of its curricula or programs. Neither does the law apply to the sale of certain copyrighted materials described in Section 7324(f).

Plagiarism: Plagiarism is defined as ...

- Submitting an assignment claiming to be original work but which has been wholly or partially created by someone else.
- Allowing your work to be submitted by another student as if it were that student's own original work.
- Presenting as one's own the ideas (i.e., paraphrases or summaries of research), organization, or the wording (i.e., direct quotations) of another work without appropriate acknowledgement of the sources within the text of your work and a works cited page per the standards of an accepted academic documentation system (i.e., CBE, Chicago Manual of Style, APA, or MLA).

Disciplinary Sanctions

- Penalties that may be imposed include but are not limited to the following:
- Faculty may lower the grade or fail that particular assignment, lower the course grade, give a failing course grade and/or dismiss that student from the course. Additionally, Faculty may recommend further involvement from the Vice President of Academic Affairs.
- The Vice President for Academic Affairs may impose harsher measures within the context of the College.