

Valparaiso University
IT-540-STEM Web Programming
2019 Summer-1
Syllabus

Instructor: Saso Poposki

Email: saso.poposki@valpo.edu

Session: May 21-June 28, 2019

Delivery: Online

Textbook: *Head First PHP & MySQL*, Beighley & Morrison, 1st edition
ISBN: 978-0596006303

Additional materials and videos will be posted in Blackboard.

Course Information: An introduction to web technology, covering a number of specific systems, such as html, PHP, MySQL, and javaScript. A laboratory component provides hands-on experience.

Prerequisite: IT 500 or consent of the instructor.

Course Objectives:

- Demonstrate basic competency in Web development and programming.
- Explain the basic concepts of the Internet, client-server architecture, features, and tools.
- Explain and distinguish the types of software capabilities that can be programmed for the client side and the server side.
- Develop a basic Web site and set of Web pages using a modern Web development tool.
- Explain and apply basic Web design and usability principles.
- Develop and incorporate software capabilities in Web pages using various programming languages.
- Deploy a basic Web site on a Web server.
- Explain basic privacy and security issues.
- Explain applications of Web-based technology in the real world and give examples.
- Demonstrate “hands on” proficiency in using computer software tools and/or languages to accomplish the above course objectives.

Student Learning Objectives: Information Technology Program

1. To understand and practice methods of inquiry and strategies of interpretation within the student's field of study.
 - a. Students will master several programming environments.
 - b. Students will learn to identify and isolate problems.
2. To master the knowledge and skills pertinent to the student's field of study.
 - a. Students will acquire an extensive technological vocabulary.
 - b. Students will become comfortable with a wide range of technology environments.
3. To effectively articulate the ideas, concepts, and methods through written and oral presentation.
 - a. Students will be taught how to make formal oral presentations and be required to give 6 such presentations during their program.
 - b. Students will write numerous thorough papers requiring extensive research. They will be required to use the services of the writing center.
4. To understand the connection between their knowledge and skills on one hand and their professional identity, responsibilities, and demands on the other.
 - a. Students will understand the implications of legal and professional regulations as they relate to information technology.
 - b. Students will study how technology can be made available to people that are traditionally less advantaged.
5. To integrate knowledge and methods of their study with cognates and other disciplines.
 - a. Students will learn techniques of modeling data from other disciplines.
 - b. Students will study human factors in IT.
6. To practice ethical and cultural sensitivity as it relates to professional and personal responsibility.
 - a. Students will examine a wide range of ethical issues related to technology and the potential side effects on people and the environment.
 - b. Students will explore the relationship between IT and ethnic and cultural diversity.

Course Policies and Expectations: My expectations for your work and participation in this course are very high! This is a hybrid project class which will involve working independently on a website. We will have a lab period for questions, but the majority of the work will be done on your own, outside of class. In addition to the website, you will have supporting assignments and quizzes. Please plan time for completing supporting assignments and studying for quizzes. There will also be a Final Quiz.

Homework: Your homework assignments will be in the form of small web projects.

Assignments are expected to be turned in on time. Generally, late assignments will not be accepted. A penalty of up to 20% per day will be applied to accepted late assignments.

Assignments must be submitted in the manner described in each assignment handout. Assignments submitted in a different form may not be submitted.

Technology difficulties, including those in VU computing labs, are not considered reason for being late with assignments!

Each student is responsible for verifying that the correct assignment has been submitted in Blackboard.

Please remember that the submission of someone else's work as your own constitutes plagiarism, which is a serious academic offense. Submitting code that is not your own or that is not part of accepted course resources is also plagiarism. Plagiarized work will not be accepted for credit, and may result in additional disciplinary actions. We will be discussing in class how to document code as well as other guidelines for avoiding plagiarism.

You may discuss general details with classmates on programming assignments; however, this should be limited. You should submit original work, and not the work of others.

You may work together on assignments, but each person must type his or her own code. It is not acceptable to copy and paste code written by anyone else. It is not acceptable for more than one person to work on a single piece of code and then submit the same code for more than one individual.

Please remember that programming can be time consuming. Waiting until the night before the due date is a bad idea. Start as soon as you receive the assignment.

Tests: Tests and quizzes must be taken on the announced dates and times. The VU Honor Code applies to all tests and quizzes.

Classroom Civility: All students who register for this class are assumed to be adults who take their education seriously. Therefore, studious adult behavior is expected. While I like to maintain an informal classroom with plenty of questions and discussion, order and respect must be maintained at all times. Interruptions and rude behavior will not be tolerated. Please be seated and ready to begin at the class start time. All electronic devices must be turned OFF during class time. You may not leave class to return calls, texts, or pages. If you feel your situation warrants an exception, please let me know.

Arriving late to class will result in attendance points being subtracted for that day.

Grading System: Your grade will be based upon the following:

| | | |
|-----------------------|--------------|-----|
| Labs & Assignments | | 40% |
| Quizzes | weekly | 30% |
| Final Quiz | as scheduled | 30% |
| <hr/> | | |
| Total | | |

Grading Scale:

| | | |
|------------|------------|------------|
| >93%: A | 90-92%: A- | |
| 87-89%: B+ | 83-86%: B | 80-82%: B- |
| 77-79%: C+ | 73-76%: C | 70-72%: C- |
| 67-69%: D+ | 63-66%: D | 60-62%: D- |
| <60%: F | | |

Honor Code: You must adhere to and sign the University's Honor Code on all your work.

Valparaiso University operates under a student initiated Honor Code. Each student studying at Valparaiso University agrees to conform to that Code. All new students should read the following explanation, since they must sign their registration form indicating that they will abide by the Honor Code. The Honor Code is an integral part of VU and permits students to do their academic work in an atmosphere of responsible freedom. The Honor Code is based on the highest principles of Christian ethics and morality and presumes every student is willing to maintain honesty in all academic work, as well as other phases of university living. Students are required to sign the pledge, indicating that they have submitted honest work and have not allowed the dishonesty of others to erode the integrity of the Honor System:

**I have neither given nor received
nor have I tolerated others' used of unauthorized aid.**

The Honor Code applies to all students registered for academic credit at Valparaiso University. Students have the responsibility for not using, giving, or tolerating unauthorized aid. When the definition of unauthorized aid is in question, students should ask the instructor to interpret the application of the Honor Code. In case of further doubt, students share the responsibility of clarifying the definition of unauthorized aid. Ignorance is not acceptable as a valid excuse for violations of the Honor Code. Students should report suspected violations to the Honor Council.

Support Services

Disability Support Services

Please contact Dr. Sherry DeMik, Director of Disability Support Services, at x6956, if you believe you have a disability that might require a reasonable accommodation in order for you to perform as expected in class. Dr. DeMik will work with you and me to make sure you receive any reasonable accommodations needed as a result of a disability.

Academic Support

To get help with this course, the best place to start is to work with your professor during office hours and to ask your professor if there are any Help Sessions or department-level tutoring offered for this course. Another step is to use the Academic Success Center (ASC) online directory (www.valpo.edu/academicsuccess) or contact the ASC (academic.success@valpo.edu) to help point you in the right direction for academic support resources for this course. Valpo's learning centers offer a variety of programs and services that provide group and individual learning assistance for many subject areas. These learning centers include:

- Graduate Tutoring Lab: Serves the academic needs of graduate students – tutors offer suggestions on organization of papers, assist in research and citations, and help in understanding difficult assignments. Additional one to one tutoring is also available.
- Writing Center: Primarily serves the needs of undergraduate students, but is also available for graduate students. Writing consultants provide proofreading and editing assistance for papers and assignments.
- Language Resource Center: Provides tutoring and other resources for language study as well as opportunities for authentic language use through conversation programs, enrichment activities and other exchanges.
- Academic Success Center: Provides referral service to help connect students with appropriate resources on campus to support their academic achievements.

Class Cancellations and Other Announcements

Notifications of class cancellations and other announcements will be made through Blackboard with as much advance notice as possible. It will be both posted in Blackboard and sent to your Valpo email address. If you don't check your Valpo email regularly or have set up to be forwarded to your preferred email account, you may not get the message. Please check Blackboard and your Valpo email before coming to class.

DIVERSITY AND INCLUSION

In this class we are committed to creating and fostering a positive learning environment based on mutual respect and inclusion.

ENGLISH LANGUAGE

The Graduate School has decided that since VU is an English language school, only English is to be used in the classroom when speaking to your professor, or each other.