

Programming II (WIS-308-37)

Course Syllabus

INSTRUCTOR: James Lynn
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LOCATION: Muhlenberg College, Shankweiler 234S (Week 2 and Week 4)

MEETING TIMES: Wednesday, January 5 – February 2, 2022 / 6:00pm - 10:00 pm

TEXT: JavaScript: The Web Warrior Series 6th Edition
Vodnik & Gosselin, Cengage Learning, ISBN: - 978-1305078444

COURSE OBJECTIVE:

This module will build upon the Fundamentals of Programming I module. The primary focus will be on the design and development of data-driven n-tier client/server applications. Various types of application paradigms will be examined, including traditional web and mobile-based solutions. The course will emphasize architectural and design concepts with opportunities for code review and hands-on coding.

GRADING:

#	Type	Description	Pct
1	Team Project	Details will be discussed in week #1 for presentation to the class in week #5.	40%
3	Individual Projects	The student will complete hands-on exercises from the textbook.	45%
8	Individual Weekly Textbook Quiz	The student will be evaluated on their understanding of the assigned chapters of the textbook.	15%

Grading Scale: A 93-100%, A- 90-92%, B+ 87-89%, B 83-86%, B- 80-82%, C+ 77-79%,
C 73-76%, C- 70-72%, D+ 67-69%, D 60-66%, F Below 60%

SCHEDULE:

Date	Assignments Due	Class Agenda
1/5/21	<ul style="list-style-type: none">Read chapter 9Quiz 9	<ul style="list-style-type: none">Discuss chapter 9Discuss software development concepts.Validate XAMP environmentsIn-class work on individual projectsReview team project assignment
1/12/21	<ul style="list-style-type: none">Read chapter 10Quiz 10Hands-on Exercise 9-5	<ul style="list-style-type: none">Review chapter 10Intro to PHP with SQLIn-class work on individual projectsReview of final presentation
1/19/21	<ul style="list-style-type: none">Read chapter 11Quizzes 11Hands-on Exercise 10-1	<ul style="list-style-type: none">Review chapter 11In-class work on individual projectsReview of final presentation
1/26/21	<ul style="list-style-type: none">Hands-on Exercise 11-5	<ul style="list-style-type: none">Review of final presentationPresentation run-throughs
2/2/21	<ul style="list-style-type: none">Team project written submission	<ul style="list-style-type: none">Present team projects

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STUDENT LEARNING OUTCOMES:

After completing this course, students will be able to:

1. Identify and explain a programming development lifecycle, including planning, analysis, design, development, and maintenance.
2. Document and format code in a consistent manner.
3. Apply basic searching and sorting algorithms in software design.
4. Apply single- and multi-dimensional arrays in software.
5. Use a debugger to find and fix runtime and logical errors in software.

PROGRAM LEARNING OUTCOME(S)

Teamwork

Oral & Written Communication

Critical Thinking

Software Development

Course Unit Instruction

This class is scheduled to meet for four hours per week of classroom instruction. You are also required to meet face-to-face with your team weekly. Team meetings are mandatory in the Accelerated Program and provide an additional 20 hours of instruction.

Canvas

We will be using Canvas in this module to post and submit assignments, share files and exchange information. Please log in to Canvas prior to our first class and review any material that is present. The Canvas portal can be reached from the <https://muhlenberg-college.onelogin.com> portal. Your authentication credentials are your network username and password.

Written Work

All written homework and project submissions will be graded not only on content but on overall coherence including structure, spelling and grammar. A writing assessment rubric will be distributed to provide you with a defined standard of performance. Refer to the APA style guidelines for clarification and guidance.

Attendance

Students are expected to attend class. If schedule commitments or illness impacts your ability to attend any of the class meetings, please let me know ASAP. You are still responsible for the material covered in any classes that you miss. Late individual assignments will be accepted but will be penalized 10% per week. Assignments more than two weeks late will not be accepted.

Instructor Accessibility

I welcome questions outside of class and will be happy to meet with you by appointment if you have concerns or need additional help. I am reachable anytime by e-mail. You may text or call me anytime on my mobile phone. If you call, and I don't pick up immediately, please leave a message. I will return your call as soon as I am able.

Students With Disabilities And Special Needs

Students with disabilities requesting classroom or course accommodations must complete a multi-faceted application/approval process through the Office of Disability Services prior to the development and implementation of an Accommodation Plan. Each Plan is individually and collaboratively developed with the directors or other staff of the following Departments, as appropriate: Academic Resource Center, Counseling Services, Student Health Services, and the Office of Disability Services. If you have not already done so, please contact the appropriate Department to begin a dialogue regarding your academic needs and recommended accommodations, auxiliary aids, and services.

Academic Behavior Code

As an academic community devoted to the discovery and dissemination of truth, Muhlenberg College insists that its students will conduct themselves honestly in all academic activities. On all forms of work submitted for a grade (e.g. paper, oral, digital, and electronic), students shall write and sign the following pledge: "I pledge that I have complied with the Academic Integrity Code in this work" or simply "I pledge the A.I.C."