

# Course Syllabus

## HOME DEPARTMENT

WDDBS Web Design and Development – Bachelor of Science

## COURSE NAME

Front-End Web Frameworks

## CONTACT INFORMATION

Catalog Course Code:	WDD372
Three-Letter Course Abbreviation:	FWF
Instructor:	Sean Bernath
Telephone:	321-274-4687 , 407-679-0100 x8583
Email:	<a href="mailto:sbernath@fullsail.com">sbernath@fullsail.com</a>
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Hours: Indicate office hours, chat hours, and preferred method of contact.	By Appointment. Contact via iChat (AIM) or iMessage to schedule.

## COURSE DESCRIPTION

The Front-End Web Frameworks Course reinforces and builds upon the concepts presented in the previous client-side development courses. Students will explore, compare, and contrast the features and uses of current client-side development libraries and frameworks. This course teaches students how to architect, develop, and deploy rich internet applications utilizing industry-standard Open Source tools.

## COURSE MATERIALS

Itemize the required materials for your course.

- Laptop with Approved Code Editor

## COURSE LEARNING OUTCOMES AND OBJECTIVES

- 1.0 Student will be able to build small applications using a JavaScript Framework.
  - 1.1 Student will be able to load remote data asynchronously as needed.
  - 1.2 Student will be able to organize business logic into Model-View-Controller.
- 2.0 Student will be able to research and implement other frameworks using concepts learned in this class.
  - 2.1 Student will be able to identify the framework requirements of a given project.
  - 2.2 Student will be able to describe application components using appropriate vocabulary.

## GENERAL EDUCATION COMPONENT

Course is designed to teach students the necessary knowledge and skills to be successful in their lives, their education, and their work, additionally to teach them emerging technologies in a fast paced interactive development environment. Students will be required to submit written assignments and take practical exams. Students will also be asked to answer questions in class. Course also encourages students and awards those who attend educational events.

## DEGREE CONNECTION

Students will gain a better understanding of how to organize their client-side code to best facilitate collaboration and project longevity.

## INDUSTRY CONNECTION

As projects grow in scope, both client-side and server-side code organization becomes paramount to a project's success or failure. In this class, we will be focusing on implementing MVC separation in primarily client-side applications.

## RESEARCH COMPONENT

Students will be required to independently research and implement 3<sup>rd</sup> party code libraries and APIs.

## TOPICS COVERED

In this section, list the main topics that will be covered in your course. Since campus classes are subject to rearrangement due to scheduling, do not include what lecture or lab you expect to touch on each topic. A simple listing will suffice for both campus and online courses.

- Building an Application with AngularJS
- Working with Data Binding
- Implementing a Data Service
- Using Local Storage for client-side data persistence.
- Using the Ajax functions built into AngularJS

## GRADE WEIGHTS

Professionalism:	10%
Week 1 Assignment:	20%
Week 2 Assignment:	20%
Week 3 Assignment:	20%
Research Project	30%