

CSCI 4862 - Server-Side Web Development and Programming

Fall 2026 Syllabus, Section 01, CRN 41621,

Credit hours: 3

Instructor

Angello Astorga

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Public Instructor Information

Instructor Title: Part-Time Faculty

Instructor Professional Qualifications:

Ph. D., Computer Science, University of Illinois Urbana-Champaign, 2024

Bachelor's, Computer Science and Engineering, The Ohio State University, 2015

Instructor Office Location: Meshel Hall 324

Instructor Office Phone: 330-941-3289

Course Description

4862. Server-Side Web Development and Programming. Configuration of web server software and the use of server-side programming. Server-side scripting. Database access and drivers. Security issues, including access control and secured transmissions. Prereq.: CSIS 3700 or CSIS 3701. 3 s.h.

Course Readings

Group	Title	Author	ISBN
Optional	Express in Action.	Evan Hahn	978-1617292422
Optional	Web Development with Node and Express (2nd Edition).	Ethan Brown	978-1492053514
Optional	JavaScript: The Definite Guide (7th Edition).	David Flanagan	9781491951989
Optional	HTML5 Pocket Reference	Jennifer Niederst Robbins	9781449368777

These books are available **free of charge through O'Reilly**.

For example, this link will take you to the O'Reilly search results for *Web Development with Node and Express*.

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Tentative Course Schedule

Week of	Proposed Topic	Due/To Prepare for Class
8/24	Introduction to server-side web programming	
8/31	Using Node.js as a simple web server	Project proposal due
9/7	Express middleware and request routing	
9/14	Form handling and input validation	
9/21	External functions and model-based design	
9/28	Session handling	Routing
10/5	Templating Middleware	
10/12	Creating dynamic views	Exam 1
10/19	Shopping carts	
10/26	AJAX and single-page applications	Input Validation

11/2	Introduction to React client-side programming	
11/9	Server-side database manipulation	Exam 2
11/16	Encryption, certificates, and authentication	
11/23	Thanksgiving week	UI
11/30	Java Server Pages and servlets	
12/7	Finals Week	Final Exam

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.