COURSE SYLLABUS

Fall 2025

Courses:	**CS44105 – Web Programming I**
Sections	600
CRN	12107
Term:	Fall 2025 – August 18th to December 7th
Virtual Meeting Time:	T 4:00 pm – 5:15 pm – COURSE WEB
Instruction Location:	100% Online – Set Meeting Times – Virtual link in Course Type section
Instructor:	Dr. Angela Guercio
Office Phone:	330-244-3424
Office Location:	Main Hall #422
Email:	aguercio@kent.edu
Office Hours:	**In person - TR** 10:00am – 10:50am, 3:00pm – 3:50pm, **TR –** 6:45pm – 7:00pm **Virtual** – by appointment or during set meeting times other times by appointment
Department:	Computer Science
Campus:	Stark

Course Description

3 Credit Hours (Schedule Type: Lecture, Level: Undergraduate): This course is the first of a two-course sequence on Web Programming covering basic information up to advanced topics on Web Programming based on open standards and best practices. Topics covered include the HyperText Markup Language (HTML), specifying look and feel using Cascading Style Sheets (CSS), client-side programming in Javascript, server-side programming in PHP, and the Hypertext Transfer Protocol (HTTP).

Pre-requisite Course(s): CS 23001 minimum grade C (2.0)

Designation: The course satisfies a requirement for the Computer Science major and minor.

Learning Outcomes

After the course, the students are expected to:

- Comprehend the essential hardware and software elements that form the foundation of web development.
- Build a simple website that effectively organizes information.
- Identify an organization for information based on its inherent structure (chronological, alphabetic, etc.).
- Use cascading style sheets to create style standards for a website.
- Create a navigational framework that aligns with the content and genre of the website.
- Explain the separation of concerns as it applies to the design and implementation of a website.
- Describe the issues involved in developing a web interface.
- Summarize the needs and issues involved in website implementation and integration.
- Explain why accessibility issues are an essential consideration in web page development.
- Design and implement a web interface.
- Compare and contrast graphic media file format characteristics such as color depth, compression, and CODECs.

- Explain and compare media file formats including lossy and lossless compression, color palettes, streaming formats, and CODECs.
- Explain and compare the interoperability of formats.
- Comprehend the responsibilities of web servers.
- Write simple introductory server-side programs in PHP.

Textbook and Reference Books

(Required) R. Connolly, R. Hoar – *Fundamentals of Web Development* - Pearson; 3rd ed., 2021, ISBN-13: 9780136792857

(Available under Safari)

P. Wang, Dynamic Web Programming and HTML5, Chapman and Hall/CRC Press, 2012, ISBN-13: 978-1439871829

Online Class Material

All the important class information, such as readings, assignments, notes, deadlines, cancellations, etc., will be available under Canvas, the Learning Management System of the course.

- Access Canvas at https://canvas.kent.edu/
- Select the course CS44105 Web Programming 1

Check it regularly!

Important Dates to Remember

- Last day to self-add an FT class or change section – Aug 24
- Last day to drop the class - Aug 31 (without W grade); Oct 26 (with W grade)
  - Exam 1 is Tuesday, Sept. 23
  - Exam 2 is Tuesday, Oct. 28
  - Final Exam is Tuesday, Dec. 2 (project) and Tuesday Dec 9 (quiz)

Fall Break: Oct 2 – Oct 5
Thanksgiving Recess: Nov 26 – Nov 30
Classes Begin: Aug 18 **Classes End:** Dec 7

Course Type

The course is scheduled 100% online with meeting times online on Tuesday at 4:00 pm - 05:15 pm. The link to the course is the following: Meeting Room of CS44105-600 Fall 2025. Attendance at the scheduled meeting time is **mandatory for the first two weeks of the semester** and optional for the remainder of the semester.

Grading

Students will be evaluated based on the following course activities and graded based on the following weighting:

Item	Percentage
Hands-On (Lab) Exercises and generic Assignments	15%
Projects (2)	30%
Midterm Exams (2 – 15% each)	30%
Final Exam (test + final project)	25%

Total percentage earned	Grade	Total percentage earned	Grade
92.5 – 100%	A	77 – 79.4%	C+
89.5 – 92.4%	A-	72 – 76.9%	C
87 – 89.4%	B+	68.5 – 71.9 %	C-
82.5 – 86.9%	B	62.1 – 68.4	D
79.5 – 82.4%	B-	62% and below	F

Course policies

Class participation and preparation

- The course is 100% online but set meeting times are used for class participation, clarifications, and exams. Regular attendance is strongly encouraged and is **MANDATORY for the first two weeks of the semester, as well as the days of the exams**, and optional for the remainder of the semester.

Exams

- Exams will be based on the combination of material covered in lectures, the assigned reading from the textbooks, and the material covered in the notes.
- All exams are closed books and closed notes.

Homework assignments

- All homework assignments must be returned through Canvas. If the instructor requests to return an assignment directly in the virtual room during the set meeting time, the assignment is due before the end of that meeting time. Assignments turned after the meeting time will be counted late.
- **All the Hands-On** of the week are due by the **Sunday** night of that week and will remain open for late submission until the first **Saturday** night following the deadline, unless stated otherwise in the assignment.

Late Policy

- Late penalty is **4 points per day**.
- No late assignment will be accepted after a class assignment has been graded and the solution discussed in class.
- An assignment cannot be **more than 6 days late**.

Individual Work, Research, and Plagiarism

- All course assignments, projects, discussions, quizzes, or exams are assigned for individual work. No group work is permitted unless specifically allowed. Should two or more students turn in substantially the same solution or program, in the judgment of the instructor, the solution will be considered a group effort. All involved in group effort homework will receive a **zero** grade for that assignment. (See more details on cheating and plagiarism in the **Academic Honesty Policy** section below).
- Students are encouraged to engage in discussion or use other resources (such as research papers, library books, or internet articles) but must write their answers and provide references to the

resources used. **At any time, a student must not reproduce code/answers from other resources "as is" or without proper attribution. Answers to assignments must not be shared.** ***Any plagiarism (even partial work) or cheating on homework, assignments, quizzes, and exams is NOT acceptable, will result in an immediate failure in the class, and will be reported.***

Make-up exams

- Make-up exams will only be given in case of serious need and only when the instructor is notified **before** the exam time. If this is not done, the grade is automatically 0 for that exam.
- Written verification for the student's inability to take an exam will be required.

AI Course Policy

- In this course, **students are strictly prohibited from using generative AI tools**, such as ChatGPT or other similar platforms**, to solve lab problems, answer lab questions, or create lab code**, even if they provide proper attribution. Any unauthorized use of generative AI will be considered plagiarism and will be handled according to the institution's academic integrity and student conduct policies. These tools may only be used in tasks where their use is explicitly permitted by the instructor, such as for practice or to support understanding of the material. On occasion, code generation may also be allowed, but only when the instructor provides explicit written authorization. In such cases, students are required to provide proper citation and attribution for any AI-generated content. Any use outside these clearly defined activities will be considered a violation of academic integrity policies.

Email Communication with the Instructor

- Communicate with your instructor using the e-mail at the top of the syllabus. Allow 24 hours for a reply. The response time during the weekend may be around 48 hours.

University Policies

Academic Coaching: Academic Coaching is a personalized experience in which you work one-on-one with a peer coach to set goals, improve time management and develop learning skills in a supportive environment. Schedule your first coaching session through the Academic Success Center website at: www.kent.edu/coaching

Tutoring: Computer Science tutoring is available. Schedule an appointment as directed on the Tutoring Page.

Course Withdrawal: If you are considering withdrawing from this course, please consult with a staff member in the Student Services Office, 132 Main Hall. Withdrawal from a course can affect financial aid, student status, or progress within your major. For withdrawal deadlines, please search the Registration Schedule app located on the Financial, Billing and Enrollment Center page.

Academic Honesty: The use of the intellectual property of others without attributing it to them is considered a serious academic offense. Cheating or plagiarism will result in a failing grade for the work or the entire course. Repeat offenses result in dismissal from the University. University guidelines require that all infractions be reported to the Student Conduct Officer on our campus. Kent State University's policy on academic honesty can be found at www.kent.edu/policyreg/administrative-policy-regarding-student-cheating-and-plagiarism

Conduct: Students and faculty behavior at Kent State University are governed by the guidelines summarized in the Code of Conduct page that you can find at http://www.kent.edu/studentconduct/code-student-conduct.

Students with Disabilities: University policy 3-01.3 requires that students with disabilities be provided reasonable accommodation to ensure their equal access to course content. If you have a documented disability and require accommodation, please contact the instructor at the beginning of the semester to make arrangements for necessary classroom adjustments. Please note, that you must first verify your eligibility for these through *Student Accessibility Services* (contact 330-244-5047 or visit for more information on registration procedures).

Counseling Services: Free, confidential counseling appointments are available through Counseling Services in the Lower Level of the Campus Center. Counseling Services is open M-F. Students are encouraged to set up appointments by contacting the office and may also present as a walk-in for immediate or emergency assistance. Additional information can be found by contacting the office at starkcounseling@kent.edu, calling at 330-244-5048, or visiting the Counseling Service page to request an appointment.

Classes Cancelled /Campus Closings: Announcements of class cancellations and/or campus closings will be made on the campus home page. In the case of an emergency, weather-related or otherwise, please check the web page at www.kent.edu/stark for information on the buildings and times of the closing. While the information may be broadcast by radio and television, this should be confirmed by the web page, which is the official announcement of the campus and which will be the information used to determine issues related to student attendance, rescheduling of tests, and other concerns.

Writing Center: The Writing Center is a free service to help students become stronger writers. It is a place for students to discuss their work with an outside reader, both early on when they are still generating and considering ideas, as well as later during the drafting and revising stages. The Writing Center's staff of peer tutors is specially trained to help students identify their writing needs and to offer insight, feedback, and support. Visit the Writing Tutoring page for more information.

Emergency

If you are on the Stark campus, in case of an emergency please contact the security on campus.

Security phone on campus: #53333

Security cell phone (330) 705-0430 or, of course, 911.

I recommend that you program into your cell phone the previous numbers.

NOTICE OF MY COPYRIGHT AND INTELLECTUAL PROPERTY RIGHTS: *Any intellectual property displayed or distributed to students during this course (including but not limited to power-points, notes, quizzes, and examinations) by the professor/ lecturer/ instructor remains the intellectual property of the professor/ lecturer/ instructor. This means that the student may not distribute, publish or provide such intellectual property to any other person or entity for any reason, commercial or otherwise, without the express written permission of the professor/lecturer/instructor.*

Tentative Course Outline

Week	Major Items	Topics	Reference
All Hands-On are due by the Sunday of the week they are issued			
8/18 – 8/23 Week 1		• Syllabus • Introduction to Web Development	Ch 1, §1-3
8/25-8/30 Week 2	AS1: Syllabus Receipt Test accounts	• Internet • Working in Web Development • How the Web Works ○ Internet Protocols, DNS, and URL	Ch 1, §4-5 Ch 2, §1-3

9/1-9/6
Week 3
	Hands-On 1	• How the Web Works – HTTP, Web Browsers and servers
		• Intro to HTML
		  ○ Markup
		  ○ HTML history
		  ○ Tour of the elements
			Ch 2, §4-6
			
			Ch 3, §1-5

Week	Major Items	Topics	Reference

9/8-9/13
Week 4
	Hands-On 2
	Project 1 issued
		• Detailed HTML
		  ○ Semantic Structure Elements
		• Intro to CSS
		  ○ Including CSS
		  ○ Basic CSS examples
			Ch 3, §6
			Ch 4, §1-3

9/15-9/20
Week 5
	Hands-On 3
	Hands-On 4
		• Intro to CSS
		  ○ CSS Selectors
		  ○ Text Styles and Styles Interaction
		  ○ Box Model
		  ○ Frameworks and Variables
			Ch 4, §4-8

9/22-9/27 Week 6	*Project 1 due* Hands-On 5 Project 2 issued	• **EXAM 1 (covers Ch 1-4)** • HTML Tables	Ch 5, §1-2
9/29-10/3 Week 7	Hands-On 6	• HTML Forms • Tables and Form Accessibility • Styling and Designing Forms • Validating Input **Fall Break**	Ch 5, §3-7

10/6 – 10/11
Week 8
	Hands-On 7
	(GIMP)
		• Web Media
		  ○ Digital Representation of Images
		  ○ Color Models
		  ○ Image Concepts
		  ○ File Formats
		  ○ Audio and Video
		  ○ Working with colors
			Ch 6, §1-6

10/13-10/18
Week 9
	Hands-On 8	• Advanced CSS
		  ○ Floating Layouts
		  ○ Flexbox Layout
			Ch 7, §1-6

10/20-10/25
Week 10
	Hands-On 9
	Project 2 due
		• Advanced CSS
		  ○ Responsive Design
		  ○ CSS Effects
		  ○ CSS Preprocessors
			Ch 7, §3-6

10/27 – 11/1
Week 11
	EXAM 2
	Final Project issued
		TUESDAY - EXAM 2 (covers Ch 5-7)
		• Programming client side: Intro to Javascript
		  ○ Variables, Data Types
		  ○ Conditionals and Loops	

11/3-11/8
Week 12
	Hands-On 10	• JavaScript Fundamentals
		  ○ Objects
		  ○ Function
		  ○ Scope and Closure
			Ch 8, §1-9

11/10-11/14
Week 13
	Hands-On 11	• Using Javascript
		  ○ DOM
		  ○ Events
		  ○ Forms
		  ○ Regular Expressions
			Ch 9, §1-6

11/17-11/22
Week 14
	Hands-On 12	• More Javascript
		  ○ Array Functions
		  ○ Prototypes, Classes, Modules
		  ○ Asynchronous Coding
		  ○ Using Browser or External APIs
		• Using API: Intro to Programming server-side programming
			Ch 10, §1-5
			Ch 12, §1

11/24-11/29 Week 15		• Server-Side Programming with PHP • **Thanksgiving Recess**	Ch 12, §2-4

12/1 – 12/6
Week 16
	Final Exam*: Final Project discussion + Quiz*	• PHP
		  ○ Functions
		  ○ Arrays
		  ○ Superglobal arrays
		• An Intro to working with DataBases
		TUESDAY – FINAL EXAM – Part 1 - Final Project Discussion
			Ch 12, §5-6
			Ch 14, §1-2

12/8 - 12/13 FINALS WEEK		**TUESDAY – FINAL EXAM – Part 2 - Quiz**	