

CSI 2520: Interactive Web Systems

Credits Hours: 4 credits, 3.57 contact hours/week.

Instructor: Gautam Singh, Ph.D.

Text book: “Introduction to JavaScript Programming with XML and PHP: Creating Dynamic and Interactive Web Pages”, Drake, ISBN: 9780133068306 Basics of Web Design: HTML5 & CSS3, Second Edition”, FelkeMorris, ISBN:9780133128918. Pearsonhighered.com.

Specific course information

This course introduces the fundamentals of interactive multimedia in context of web technologies. Topics covered include use of modern web development tools, Markup Languages, server-side processing, and client-side processing using languages such as JavaScript. Students will use these tools to create interactive and dynamic web sites. Satisfies the university general education requirement in the knowledge applications integration area. Prerequisite for knowledge applications integration: completion of the general education requirement in the formal reasoning knowledge foundation area.

Prerequisites: CSI 2300

Required course for IT major

Course Objectives: Upon successful completion of this course, students should be able to

- Design the structure and major building blocks of web systems [ABET IT: (c, i, j)]
- Develop interactive web applications with markup languages and client-side scripts [ABET IT: (c, i, j)]
- Design and develop server-side scripts to support the business logic of Web applications [ABET IT: (c, i, j)]
- Integrate and use data management packages [ABET IT: (c, i, j)]

List of Topics:

- Modern web development tools
- Markup Languages
- Server-side processing
- Client-side processing using languages
- JavaScript.