UVU — UTAH VALLEY UNIVERSITY

Master Course Syllabus

For additional course information, including prerequisites, corequisites, and course fees, please refer to the Catalog: https://catalog.uvu.edu/

Semester: Spring
Course Prefix: DWDD 3780
Course Title: Rich Internet Application Dev II

Year: 2025
Course and Section #: 001
Credits: 3

Course Description

Use server-side JavaScript and associated back-end technologies to complement front end developer skills.   You will learn about Node, SvelteKit, APIs, Cloud Datastores, Authentication, Backend "serverless" services, and advanced JavaScript/TypeScript.

Course Attributes

This course has the following attributes:
- ☐ General Education Requirements
- ☐ Global/Intercultural Graduation Requirements
- ☐ Writing Enriched Graduation Requirements
- ☒ Discipline Core Requirements in Program
- ☐ Elective Core Requirements in Program
- ☐ Open Elective

Other: *Click here to enter text.*

Instructor Information

Instructor Name: Thor Anderson

Student Learning Outcomes

- Setup and manage a localhost SvelteKit web application
- Demonstrate sound understanding of advanced Javascript/TypeScript principles and methods
- Implement Authentication using server less APIs
- Design server-side APIs using SvelteKit and server less tools
- Deploy cloud-based no-sql MongoDB datastore with API access
- Connect CRUD functionality between a Svelte front end and server less services
- Write asynchronous code when appropriate
- Develop multiple data stores including User store
- Connect web client to RESTful and/or GraphQL APIs to retrieve and display data from multiple stores
- Deploy client and server-side app using modern processes and build tools

Course Materials and Texts

No textbook required

Course Requirements

Course Assignments, Assessments, and Grading Policy
Units
The combination of your homework assignments and our in-class coding sessions will be critical in helping you to complete your final project.
Discussions
Posted questions will be discussed during our class sessions and will help direct our live stream class time. Discussion postings will be graded as part of your Participation grade.
Projects
At the end of a few lessons, students will be assigned a project. Each of the projects are meant to reinforce the principles taught within the lesson and are used to assess the student's ability to implement the concepts. **This is the application of acquired knowledge in the process of building skill.**
Final Project
The final project encompasses the last part of the course. This allows students to direct their learning and choose to go more in-depth on the topics that interest them the most. Each student consults with the instructor to plan their final project.

Required or Recommended Reading Assignments
All reading assignments are public web pages.

General Description of the Subject Matter of Each Lecture or Discussion
There is no specific textbook or online course required for this course. We will be using MongoDB, AuthJS, and SvelteKit documentation, freely available online, to build our full stack web applications. We may have access to Pluralsight subscriptions to supplement that documentation.

Required Course Syllabus Statements

Generative AI
We will use tools such as CoPilot to get AI-assisted guidance on coding syntax and best practices.

Using Remote Testing Software
☒ This course does not use remote testing software.

☐ This course uses remote testing software. Remote test-takers may choose their remote testing locations. Please note, however, that the testing software used for this may conduct a brief scan of remote test-takers' immediate surroundings, may require use of a webcam while taking an exam, may require the microphone be on while taking an exam, or may require other practices to confirm academic honesty. Test-takers therefore shall have no expectation of privacy in their test-taking location during, or immediately preceding, remote testing. If a student strongly objects to using test-taking software, the student should contact the instructor at the beginning of the semester to determine whether alternative testing arrangements are feasible. Alternatives are not guaranteed.

Required University Syllabus Statements

Accommodations/Students with Disabilities

Students needing accommodations due to a permanent or temporary disability, pregnancy or pregnancy-related conditions may contact UVU Accessibility Services at accessibilityservices@uvu.edu or 801-863-8747.

Accessibility Services is located on the Orem Campus in BA 110.

Deaf/Hard of Hearing students requesting ASL interpreters or transcribers can contact Accessibility Services to set up accommodations. Deaf/Hard of Hearing services can be contacted at DHHservices@uvu.edu

DHH is located on the Orem Campus in BA 112.

Academic Integrity

At Utah Valley University, faculty and students operate in an atmosphere of mutual trust. Maintaining an atmosphere of academic integrity allows for free exchange of ideas and enables all members of the community to achieve their highest potential. Our goal is to foster an intellectual atmosphere that produces scholars of integrity and imaginative thought. In all academic work, the ideas and contributions of others must be appropriately acknowledged and UVU students are expected to produce their own original academic work.

Faculty and students share the responsibility of ensuring the honesty and fairness of the intellectual environment at UVU. Students have a responsibility to promote academic integrity at the university by not participating in or facilitating others' participation in any act of academic dishonesty. As members of the academic community, students must become familiar with their rights and responsibilities. In each course, they are responsible for knowing the requirements and restrictions regarding research and writing, assessments, collaborative work, the use of study aids, the appropriateness of assistance, and other issues. Likewise, instructors are responsible to clearly state expectations and model best practices.

Further information on what constitutes academic dishonesty is detailed in UVU Policy 541: *Student Code of Conduct*.

Equity and Title IX

Utah Valley University does not discriminate on the basis of race, color, religion, national origin, sex, sexual orientation, gender identity, gender expression, age (40 and over), disability, veteran status, pregnancy, childbirth, or pregnancy-related conditions, citizenship, genetic information, or other basis protected by applicable law, including Title IX and 34 C.F.R. Part 106, in employment, treatment, admission, access to educational programs and activities, or other University benefits or services. Inquiries about nondiscrimination at UVU may be directed to the U.S. Department of Education's Office for Civil Rights or UVU's Title IX Coordinator at 801-863-7999 – TitleIX@uvu.edu – 800 W University Pkwy, Orem, 84058, Suite BA 203.

Religious Accommodation

UVU values and acknowledges the array of worldviews, faiths, and religions represented in our student body, and as such provides supportive accommodations for students. Religious belief or conscience broadly includes religious, non-religious, theistic, or non-theistic moral or ethical beliefs as well as participation in religious holidays, observances, or activities. Accommodations may include scheduling or due-date modifications or make-up assignments for missed class work.

To seek a religious accommodation, a student must provide written notice to the instructor and the Director of Accessibility Services at accessibilityservices@uvu.edu. If the accommodation relates to a scheduling conflict, the notice should include the date, time, and brief description of the difficulty posed by the conflict. Such requests should be made as soon as the student is aware of the prospective scheduling conflict.

While religious expression is welcome throughout campus, UVU also has a specially dedicated space for meditation, prayer, reflection, or other forms of religious expression.