

**Course Information**

Course Number: AWD1111

Course Name: Database Driven Web Development

Semester: Fall 2022 (1st)

Class Day(s): Monday- Friday

Class Time: 12:05 PM-3:55 PM

Number of Sessions: 80

Building/Room: N/A (Online )

**Instructor Information**

Name: Jeff Scott

Office Phone: (314) 286-3675

E-mail: jpscott@ranken.edu

Office Location: Ranken Wentzville Faculty Offices (across from Room T201)

Office Hours: 6 AM – 8 AM Monday – Friday

7 PM – 9 PM Monday – Thursday

**Program Level Student Outcomes**

* Graduates earning the Associates of Technology or Associates of Applied Science in Information Technology Application & Web Development will be able to develop and design websites that use the latest versions of HTML, CSS, JavaScript, and modern JavaScript libraries
* Develop, troubleshoot, and implement applications using object-oriented programming principles and fundamentals
* Create data-driven Web-based applications that utilize SQL, stored procedures, LINQ, and .NET data access techniques
* Utilize a version control system to manage code

**Course Materials and Texts**

**No Actual Textbook for the class**, but see the online resources shown below:

<https://www.w3schools.com/html/>

<https://www.w3schools.com/css/>

<https://www.w3schools.com/bootstrap5/index.php>

[https://www.w3schools.com/js/](https://www.w3schools.com/js/default.asp)

<https://www.ericsdevblog.com/index.php/beginners-roadmap-to-web-development/>

<https://matfuvit.github.io/UVIT/predavanja/literatura/TutorialsPoint%20JavaScript.pdf>

https://ibaslogic.com/react-tutorial-for-beginners/

**Course Description**

This web-based course includes an overview of the technologies needed to develop modern, mobile websites, including the use of Node.js on the server side. Students will get hands-on experience in the latest HTML, CSS, Bootstrap, and JavaScript/Node technologies. The focus is to build students’ abilities and confidence through hands-on exercises and real-world MERN (MongoDB, ExpressJS, ReactJS, NodeJS) projects. This course will continue to provide the base for a strong future in web development. Fourteen credit hours.

**Course Level Student Outcomes**

* Review JavaScript/Use CSS and Bootstrap to design responsive web sites.
* Use MongoDB, Express.js, Node.js, and React (MERN) with modern JavaScript syntax to build web applications.
* Develop web forms that post data to a server and retrieve results.
* Use a Database Management System (MySQL and MongoDB) to persist, manipulate, and query user data.
* Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.
* Use React.js to create dynamic web pages.

**Policies**

See the [Ranken Technical College Student Handbook](http://ranken.edu/student-life/student-handbook/).

**Attendance \*\***

Students are expected to attend all scheduled course sessions. Students are responsible for monitoring their attendance record on InsideRanken.

**\*\*NOTE: This is an online class: All lectures will be taped and made available on Microsoft Teams and/or** [**my YouTube channel**](https://www.youtube.com/channel/UC98Q7XElpqpCZ78R2sdm-Ww)**. Students are expected to either watch the videos live or on tape. Homework, Labs, and/or Tests will be given weekly. If work is turned in by the due dates provided, the student will be marked present. If not, they will be marked absent. With online classes, you get a maximum of 2 absences before the instructor is required to drop you from the class. You can appeal this as you deem necessary. Feel free to ask if you have any questions.**

**Seated/Face to Face Courses:**

* Not Applicable

**Academic Honesty**

Academic honesty is essential to the education process at Ranken Technical College. Thus, academic dishonesty is a basis for disciplinary action or dismissal. Such acts include:

- Cheating on any type of exam

- Cheating on homework assignments

- Helping another student to cheat on any type of exam

- Helping another student to cheat on homework assignments

- Illegal or unauthorized possession of exams or restricted material

- Illegal or unauthorized changes to a graded assignment or exam

- Plagiarism (including in your work, another’s work that is not properly cited)

**Course Grading**

(Percentage breakdown of projects, tests, homework, etc.)

**Overall Grade Scale**

A 92.5-100% Excellent

B+ 89.5-92.49% Very Good

B 83.5-89.49% Good

C+ 80.5-83.49% Above Average

C 74.5-80.49% Average

D 69.5-74.49% Unsatisfactory. Does not satisfy course requirement\*\*

F BELOW 69.49% Failing

**Workload Table**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Category | Reading | Homework | Lecture & Discussion | Quiz | Exam | Projects | Total |
| Instructor Led Lecture & Discussion |  |  | 40 |  | 20 | 260 | 320 |
| Out-of-class participation by student | 65 | 15 |  |  | 10 |  | 90 |
| Lab/Shop |  |  |  |  |  |  |  |

**Inside Ranken**

Students are expected to use Inside Ranken (<http://insideranken.org>) to gain access to general course information, digital course materials, current attendance record, current grades, and online assignments. Students are to notify their instructor immediately of any error in grades or attendance.

**General College Information**

Tutorial Assistance

Students experiencing academic difficulties are encouraged to use the tutorial services offered by the Student Success Center (SSC) located on the top floor on the Finney Building and through the Gray Bridge. You can contact the SSC at (314) 286-4891. Contact Patrick Glynn, Admissions Counselor - Ranken Wentzville at (314)286-3306 or [pmglynn@ranken.edu](mailto:jwsutton@ranken.edu) for Ranken-specific information. More in class.

Students with Disabilities

Ranken Technical College makes every effort to accommodate individuals with disabilities. To obtain accommodations, students must identify themselves to the Student Success Center (SSC) and provide written documentation of their disabilities from qualified professionals or agencies. You can contact the SSC at (314) 286-4891. Contact Patrick Glynn, Admissions Counselor - Ranken Wentzville at (314)286-3306 or [pmglynn@ranken.edu](mailto:jwsutton@ranken.edu) for Ranken-specific information.

Career Services

The Career Services department is available to help students with resume writing and job placement. You can contact Career Services at (314) 286-3665. Contact Patrick Glynn, Admissions Counselor - Ranken Wentzville at (314)286-3306 or [pmglynn@ranken.edu](mailto:jwsutton@ranken.edu) for Ranken-specific information.

Snow Days and Campus Emergencies

If classes are canceled due to weather or an emergency, students will be notified via the notification system which will generate a text message to the assigned cell phone and/or email address. Notifications are also posted on the College website and Inside Ranken web portal.

Notifications are active for the time period you specify during the sign-up process. It is recommended that you sign up for a one-year period. If you are still actively taking classes at Ranken after this time period, your notifications can be revalidated for an additional period of time. This will also allow you to verify that your information is correct on a yearly basis.

**Please Note:** You may incur charges from your cellular provider for each text message.

**NOTE: AS THIS IS AN ONLINE CLASS, ASSUME THAT CLASSES WILL ALWAYS BE HELD.**

**Course Schedule**

|  |  |  |
| --- | --- | --- |
| **Day 1**  08/22/2022 | **Course Introduction**   * **Class Introduction** * **Student Handbook Review** * **Department Handbook Review** * **Work Ethic Grade Sheet** * **Internet Usage Sheet** * **GitHub intro/”re-intro”**   **Lecture: Review of AWD1000 Material**  **Objective:**  **Review of HTML5 / CSS3 / Bootstrap 5 / JavaScript material**  **Specific Objectives:**   * **Complete Wes Bos Flexbox** * **Complete Wes Bos CSS Grid**   **Course Outcome Alignment:**   * **Review JavaScript/Use CSS and Bootstrap to design responsive web sites.** | **Assignment: NONE**  **Review of URLs on Page 1 of Syllabus and also:**  [**https://www.ericsdevblog.com/index.php/beginners-roadmap-to-web-development/**](https://www.ericsdevblog.com/index.php/beginners-roadmap-to-web-development/) **and also of:**  [**https://the-webdesigner.co/web-design-development-resources/**](https://the-webdesigner.co/web-design-development-resources/)  **Sign up for/go through Wes Bos CSS Grid at** [**https://cssgrid.io/**](https://cssgrid.io/)  **Sign up for/go through Wes Box CSS Flexbox at** [**https://flexbox.io/**](https://flexbox.io/) |
| **Day 2**  08/23/2022 | **Lecture Review of Intermediate JavaScript**  **Objective:**  **Review of HTML5 / CSS3 / Bootstrap 5 / JavaScript material**  **Specific Objectives:**   * **Complete Wes Bos Flexbox** * **Complete Wes Bos CSS Grid** * **Review online JavaScript material**   **Course Outcome Alignment:**   * **Review JavaScript/Use CSS and Bootstrap to design responsive web sites.** | **Assignment: Worksheet #1 Due by 11:59:59 PM Sunday 8/28/2022.** |
| **Day 3**  08/24/2022 | **Lecture Review of Intermediate JavaScript**  **Objective:**  **Review of HTML5 / CSS3 / Bootstrap 5 / JavaScript material**  **Specific Objectives:**   * **Continue review of online JavaScript material**   **Course Outcome Alignment:**   * **Review JavaScript/Use CSS and Bootstrap to design responsive web sites.** | **Assignment: Worksheet #1 Due by 11:59:59 PM Sunday 8/28/2022.** |
| **Day 4**  08/25/2022 | **Specific Objectives:**   * **Continue review of JavaScript material**   **Course Outcome Alignment:**   * **Review JavaScript/Use CSS and Bootstrap to design responsive web sites.** | **Assignment: Worksheet #1 Due by 11:59:59 PM Sunday 8/28/2022.** |
| **Day 5**  08/26/2022 | * **Lab All Period.** | **Assignment: Worksheet #1 Due by 11:59:59 PM Sunday 8/28/2022.**  **Worksheet #2 Due by 11:59:59 PM Sunday 9/4/2022.** |
| **Day 6**  08/29/2022 | **Specific Objectives:**   * **Continue discussion of JavaScript**   **Course Outcome Alignment**   * **Use JavaScript to create dynamic web pages.** | **Assignment: Worksheet #2 Due by 11:59:59 PM Sunday 9/4/2022.** |
| **Day 7**  08/30/2022 | **Specific Objectives:**   * **Continue discussion of JavaScript**   **Course Outcome Alignment**   * **Use JavaScript to create dynamic web pages.** | **Assignment: Worksheet #2 Due by 11:59:59 PM Sunday 9/4/2022.** |
| **Day 8**  08/31/2022 | **Specific Objectives:**   * **Continue discussion of JavaScript**   **Course Outcome Alignment**   * **Use JavaScript to create dynamic web pages.** | **Assignment: Worksheet #2 Due by 11:59:59 PM Sunday 9/4/2022.** |
| **Day 9**  09/01/2022 | **Specific Objectives:**   * **Continue discussion of JavaScript**   **Course Outcome Alignment**   * **Use JavaScript to create dynamic web pages.** | **Assignment: Worksheet #2 Due by 11:59:59 PM Sunday 9/4/2022.** |
| **Day 10**  09/02/2022 | * **Lab All Period**   **LABOR DAY MONDAY 09/05/2022 – NO CLASSES** | **Assignment: Worksheet #2 Due by 11:59:59 PM Sunday 9/4/2022.**  **Test #1. Due by 11:59:59 Sunday 9/11/2022.** |
| **Day 11**  09/06/2022 | * **Specific Objectives:**   **Begin discussion of NodeJS**   * **Course Outcome Alignment**   **Use NodeJS to create dynamic web pages.** | **Assignment: Test #1. Due by 11:59:59 PM Sunday 9/11/2022.** |
| **Day 12**  09/07/2022 | **Specific Objectives:**   * **Continue discussion of NodeJS**   **Course Outcome Alignment**   * **Use NodeJS to create dynamic web pages.** | **Assignment: Test #1. Due by 11:59:59 PM Sunday 9/11/2022.** |
| **Day 13**  09/08/2022 | **Specific Objectives:**   * **Continue discussion of NodeJS**   **Course Outcome Alignment**   * **Use NodeJS to create dynamic web pages.** | **Assignment: Test #1. Due by 11:59:59 PM Sunday 9/11/2022.** |
| **Day 14**  09//09/2022 | * **Lab All Period** | **Assignment: Test #1. Due by 11:59:59 PM Sunday 9/11/2022.**  **NodeJS Assignment #1. Due by 11:59:59 PM Sunday 9/18/2022.** |
| **Day 15**  09/12/2022 | **Specific Objectives:**   * **Continue discussion of NodeJS**   **Course Outcome Alignment**   * **Use NodeJS to create dynamic web pages.** | **Assignment: NodeJS Assignment #1. Due by 11:59:59 PM Sunday 9/18/2022.** |
| **Day 16**  09/13/2022 | **Specific Objectives:**   * **Continue discussion of NodeJS**   **Course Outcome Alignment**   * **Use NodeJS to create dynamic web pages.** | **Assignment: NodeJS Assignment #1. Due by 11:59:59 PM Sunday 9/18/2022.** |
| **Day 17**  09/14/2022 | **Specific Objectives:**   * **Continue discussion of NodeJS**   **Course Outcome Alignment**   * **Use NodeJS to create dynamic web pages.** | **Assignment: NodeJS Assignment #1. Due by 11:59:59 PM Sunday 9/18/2022.** |
| **Day 18**  09/15/2022 | **Specific Objectives:**   * **Continue discussion of NodeJS**   **Course Outcome Alignment**   * **Use NodeJS to create dynamic web pages.** | **Assignment: NodeJS Assignment #1. Due by 11:59:59 PM Sunday 9/18/2022.** |
| **Day 19**  09/16/2022 | * **Lab All Period** | **Assignment: NodeJS Assignment #1. Due by 11:59:59 PM Sunday 9/18/2022.**  **Test #2. Due by 11:59:59 PM Sunday**  **9/25/2022.** |
| **Day 20**  09/19/2022 | **Specific Objectives:**   * **Begin discussion of Databases**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a Database Management System (MySQL and MongoDB) to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, and Node.js with modern JavaScript syntax to build web applications.** | **Assignment: Test #2. Due by 11:59:59 PM Sunday 9/25/2022.** |
| **Day 21**  09/20/2022 | **Specific Objectives:**   * **Continue discussion of Databases**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, and Node.js with modern JavaScript syntax to build web applications.** | **Assignment: Test #2. Due by 11:59:59 PM Sunday 9/25/2022.** |
| **Day 22**  09/21/2022 | **Specific Objectives:**   * **Continue discussion of Databases**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, and Node.js with modern JavaScript syntax to build web applications.** | **Assignment: Test #2. Due by 11:59:59 PM Sunday 9/25/2022.** |
| **Day 23**  0922/2022 | **Specific Objectives:**   * **Continue discussion of Databases**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, and Node.js with modern JavaScript syntax to build web applications.** | **Assignment: Test #2. Due by 11:59:59 PM Sunday 9/25/2022.** |
| **Day 24**  09/23/2022 | * **Lab All Period** | **Assignment: Test #2. Due by 11:59:59 PM Sunday 9/25/2022.**  **MySQL Database Assignment, due by 11:59:59 PM Sunday 10/2/2022.**  **MongoDB Database Assignment, due by 11:59:59 PM Sunday 10/2/2022.** |
| **Day 25**  09/26/2022 | **Specific Objectives:**   * **Continue discussion of Databases**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, Node.js with modern JavaScript syntax to build web applications.** | **Assignment: MySQL Database Assignment, due by 11:59:59 PM Sunday 10/2/2022.**  **MongoDB Database Assignment, due by 11:59:59 PM Sunday 10/2/2022.** |
| **Day 26**  09/27/2022 | **Specific Objectives:**   * **Continue discussion of Databases**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, and Node.js with modern JavaScript syntax to build web applications.** | **Assignment: MySQL Database Assignment, due by 11:59:59 PM Sunday 10/2/2022.**  **MongoDB Database Assignment, due by 11:59:59 PM Sunday 10/2/2022.** |
| **Day 27**  09/28/2022 | **Specific Objectives:**   * **Continue discussion of Databases**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, and Node.js with modern JavaScript syntax to build web applications.** | **Assignment: MySQL Database Assignment, due by 11:59:59 PM Sunday 10/2/2022.**  **MongoDB Database Assignment, due by 11:59:59 PM Sunday 10/2/2022.** |
| **Day 28**  09/29/2022 | **Specific Objectives:**   * **Continue discussion of Databases**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, and Node.js with modern JavaScript syntax to build web applications.** | **Assignment: MySQL Database Assignment, due by 11:59:59 PM Sunday 10/2/2022.**  **MongoDB Database Assignment, due by 11:59:59 PM Sunday 10/2/2022.** |
| **Day 29**  09/30/2022 | * **Lab All Period** | **Assignment: MySQL Database Assignment, due by 11:59:59 PM Sunday 10/2/2022.**  **MongoDB Database Assignment, due by 11:59:59 PM Sunday 10/2/2022.**  **Test #3, due by 11:59:59 PM Sunday 10/9/2022.** |
| **Day 30**  10/03/2022 | **Specific Objectives:**   * **Continue work on semester project** * **Add Express and NodeJS components**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, and Node.js with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: Test #3, due by 11:59:59**  **PM Sunday 10/9/2022.**  **NodeJS/ExpressJS assignment, due by 11:59:59 PM Sunday 10/9/2022.** |
| **Day 31**  10/04/2022 | **Specific Objectives:**   * **Continue work on semester project** * **Add Express and NodeJS components**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, and Node.js with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: Test #3, due by 11:59:59**  **PM Sunday 10/9/2022.**  **NodeJS/ExpressJS assignment, due by 11:59:59 PM Sunday 10/9/2022.** |
| **Day 32**  10/05/2022 | **Specific Objectives:**   * **Continue work on semester project** * **Add Express and NodeJS components**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, and Node.js with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: Test #3, due by 11:59:59**  **PM Sunday 10/9/2022.**  **NodeJS/ExpressJS assignment, due by 11:59:59 PM Sunday 10/9/2022.** |
| **Day 33**  10/06/2022 | **Specific Objectives:**   * **Continue work on semester project** * **Add Express and NodeJS components**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, and Node.js with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: Test #3, due by 11:59:59**  **PM Sunday 10/9/2022.**  **NodeJS/ExpressJS assignment, due by 11:59:59 PM Sunday 10/9/2022.** |
| **Day 34**  10/07/2022 | * **Lab All Period** | **Assignment: Test #3, due by 11:59:59**  **PM Sunday 10/9/2022.**  **NodeJS/ExpressJS assignment, due by 11:59:59 PM Sunday 10/9/2022.**  **Test #4, due by 11:59:59 PM Sunday 10/16/2022.** |
| **Day 35**  10/10/2022 | **Specific Objectives:**   * **Continue work on semester project** * **Add Express and NodeJS components**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, and Node.js with JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: Test #4, due by 11:59:59**  **PM Sunday 10/16/2022.** |
| **Day 36**  10/11/2022 | **Specific Objectives:**   * **Continue work on semester project** * **Add Express and NodeJS components**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, and Node.js with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: Test #4, due by 11:59:59**  **PM Sunday 10/16/2022.** |
| **Day 37**  10/12/2022 | **Specific Objectives:**   * **Continue work on semester project** * **Add Express and NodeJS components**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, and Node.js with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: Test #4, due by 11:59:59**  **PM Sunday 10/16/2022.** |
| **Day 38**  10/13/2022 | **Specific Objectives:**   * **Continue work on semester project** * **Add Express and NodeJS components**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, and Node.js with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: Test #4, due by 11:59:59**  **PM Sunday 10/16/2022.** |
| **Day 39**  10/14/2022 | * **Lab all period** | **Assignment: Test #4, due by 11:59:59 PM Sunday 10/16/2022.** |
| **Day 40**  10/17/2022 | **Specific Objectives:**   * **Introduce React to complete the MERN stack**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, Node.js, and React with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.**   **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: React worksheet #1, due by 11:59:59 PM Sunday 10/23/2022.** |
| **Day 41**  10/18/2021 | **Specific Objectives:**   * **Introduce React to complete the MERN stack**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, Node.js, and React with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: React worksheet #1, due by 11:59:59 PM Sunday 10/23/2022.** |
| **Day 42**  10/19/2022 | **Specific Objectives:**   * **Introduce React to complete the MERN stack**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, Node.js, and React with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: React worksheet #1, due by 11:59:59 PM Sunday 10/23/2022.** |
| **Day 43**  10/20/2022 | **Specific Objectives:**   * **Introduce React to complete the MERN stack**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, Node.js, and React with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: React worksheet #1, due by 11:59:59 PM Sunday 10/23/2022.** |
| **Day 44**  10/21/2022 | * **Lab all period** | **Assignment: React worksheet #1, due by 11:59:59 PM Sunday 10/23/2022.**  **React worksheet #2, due by 11:59:59 PM Sunday 10/30/2022.** |
| **Day 45**  10/24/2022 | **Specific Objectives:**   * **Introduce React to complete the MERN stack**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, Node.js, and React with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: React worksheet #2, due by 11:59:59 PM Sunday 10/30/2022.** |
| **Day 46**  10/25/2022 | **Specific Objectives:**   * **Introduce React to complete the MERN stack**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, Node.js, and React with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: React worksheet #2, due by 11:59:59 PM Sunday 10/30/2022.** |
| **Day 47**  10/26/2022 | **Specific Objectives:**   * **Introduce React to complete the MERN stack**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, Node.js, and React with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: React worksheet #2, due by 11:59:59 PM Sunday 10/30/2022.** |
| **Day 48**  10/27/2022 | **Specific Objectives:**   * **Introduce React to complete the MERN stack**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, Node.js, and React with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: React worksheet #2, due by 11:59:59 PM Sunday 10/30/2022.** |
| **Day 49**  10/28/2022 | * **Lab all period** | **Assignment: React worksheet #2, due by 11:59:59 PM Sunday 10/30/2022.**  **Test #5, due by 11:59:59 PM Sunday 11/6/2022.** |
| **Day 50**  10/31/2022 | **Specific Objectives:**   * **Semester MERN Stack Project**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, Node.js, and React with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: Test #5, due by 11:59:59 PM Sunday 11/6/2022.** |
| **Day 51**  11/01/2022 | **Specific Objectives:**   * **Semester MERN Stack Project**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, Node.js, and React with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: Test #5, due by 11:59:59 PM Sunday 11/6/2022.**  **Continue work on final project.** |
| **Day 52**  11/02/2022 | **Specific Objectives:**   * **Semester MERN Stack Project**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, Node.js, and React with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: Test #5, due by 11:59:59 PM Sunday 11/6/2022.**  **Continue work on final project.** |
| **Day 53**  11/03/2022 | **Specific Objectives:**   * **Semester MERN Stack Project**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, Node.js, and React with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: Test #5, due by 11:59:59 PM Sunday 11/6/2022.**  **Continue work on final project.** |
| **Day 54**  11/04/2022 | * **Lab All Period** | **Assignment: Test #5, due by 11:59:59 PM Sunday 11/6/2022.**  **Final project part 1, due by 11:59:59 PM Sunday 11/13/2022.** |
| **Day 55**  11/07/2022 | **Specific Objectives:**   * **Semester MERN Stack Project**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, Node.js, and React with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: Final project part 1, due by 11:59:59 PM Sunday 11/13/2022.** |
| **Day 56**  11/08/2022 | **Specific Objectives:**   * **Semester MERN Stack Project**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, Node.js, and React with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: Final project part 1, due by 11:59:59 PM Sunday 11/13/2022.** |
| **Day 57**  11/09/2022 | **Specific Objectives:**   * **Semester MERN Stack Project**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, Node.js, and React with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: Final project part 1, due by 11:59:59 PM Sunday 11/13/2022.**  **Continue work on final project.** |
| **Day 58**  11/10/2022 | * **Lab All Period**   **11/11/2022 No Class Veteran’s Day** | **Assignment: Final project part 1, due by 11:59:59 PM Sunday 11/13/2022.**  **Continue work on final project.** |
|  |  |  |
| **Day 59**  11/14/2022 | **Specific Objectives:**   * **Semester MERN Stack Project**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, Node.js, and React with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: Final project part 2, due by 11:59:59 PM Sunday 11/20/2022.**  **Continue work on final project.** |
| **Day 60**  11/15/2022 | **Specific Objectives:**   * **Semester MERN Stack Project**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, Node.js, and React with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: Final project part 2, due by 11:59:59 PM Sunday 11/20/2022.**  **Continue work on final project.** |
| **Day 61**  11/16/2022 | **Specific Objectives:**   * **Semester MERN Stack Project**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, Node.js, and React with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: Final project part 2, due by 11:59:59 PM Sunday 11/20/2022.**  **Continue work on final project.** |
| **Day 62**  11/17/2022 | **Specific Objectives:**   * **Semester MERN Stack Project**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, Node.js, and React with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.**   **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: Final project part 2, due by 11:59:59 PM Sunday 11/20/2022.**  **Continue work on final project.** |
| **Day 63**  11/18/2022 | * **Lab All Period** | **Assignment: Final project part 2, due by 11:59:59 PM Sunday 11/20/2022.**  **Continue work on final project.** |
| **Day 64**  11/21/2022 | **Specific Objectives:**   * **Semester MERN Stack Project**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, Node.js, and React with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: Final project part 3, due by 11:59:59 PM Sunday 12/11/2022.** |
| **Day 65**  11/22/2022 | **Specific Objectives:**   * **Semester MERN Stack Project**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, Node.js, and React with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: Final project part 3, due by 11:59:59 PM Sunday 12/11/2022.** |
| **Day 66**  11/23/2022 | **Specific Objectives:**   * **Semester MERN Stack Project**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, Node.js, and React with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.**   **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.**  **NO CLASSES 11/24 – 11/25 Thanksgiving** | **Assignment: Final project part 3, due by 11:59:59 PM Sunday 12/11/2022.** |
| **Day 67**  11/28/2022 | **Specific Objectives:**   * **Semester MERN Stack Project**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, Node.js, and React with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: Final project part 3, due by 11:59:59 PM Sunday 12/11/2022.** |
| **Day 68**  11/29/2022 | **Specific Objectives:**   * **Semester MERN Stack Project**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, Node.js, and React with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: Final project part 3, due by 11:59:59 PM Sunday 12/11/2022.** |
| **Day 69**  11/30/2022 | **Specific Objectives:**   * **Semester MERN Stack Project**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, Node.js, and React with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: Final project part 3, due by 11:59:59 PM Sunday 12/11/2022.** |
| **Day 70**  12/01/2022 | **Specific Objectives:**   * **Semester MERN Stack Project**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, Node.js, and React with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: Final project part 3, due by 11:59:59 PM Sunday 12/11/2022.** |
| **Day 71**  12/02/2022 | * **Lab All Period** | **Assignment: Final project part 3, due by 11:59:59 PM Sunday 12/11/2022.** |
| **Day 72**  12/05/2022 | **Specific Objectives:**   * **Semester MERN Stack Project**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, Node.js, and React with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: Final project part 3, due by 11:59:59 PM Sunday 12/11/2022.**  **Begin E-Portfolio update.** |
| **Day 73**  12/06/2022 | **Specific Objectives:**   * **Semester MERN Stack Project**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, Node.js, and React with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: Final project part 3, due by 11:59:59 PM Sunday 12/11/2022.**  **E-Portfolio update.** |
| **Day 74**  12/07/2022 | **Specific Objectives:**   * **Semester MERN Stack Project**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, Node.js, and React with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: Final project part 3, due by 11:59:59 PM Sunday 12/11/2022.**  **E-Portfolio update.** |
| **Day 75**  12/08/2022 | **Specific Objectives:**   * **Semester MERN Stack Project**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, Node.js, and React with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: Final project part 3, due by 11:59:59 PM Sunday 12/11/2022.**  **E-Portfolio update.** |
| **Day 76**  12/09/2022 | * **Lab All Period** | **Assignment: Final project part 3, due by 11:59:59 PM Sunday 12/11/2022.**  **E-Portfolio update.** |
| **Day 77**  12/12/2022 | **Specific Objectives:**   * **Semester MERN Stack Project**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, Node.js, and React with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: Final project part 3, due by 11:59:59 PM Sunday 12/11/2022.**  **E-Portfolio update.** |
| **Day 78**  12/13/2022 | **Specific Objectives:**   * **Semester MERN Stack Project**   **Course Outcome Alignment**   * **Use NodeJS with databases to create dynamic web pages.** * **Use a DBMS to persist, manipulate, and query user data.** * **Use MongoDB, Express.js, Node.js, and React with modern JavaScript syntax to build web applications** * **Develop web forms that post data to a server and retrieve results.** * **Develop web APIs and use JavaScript AJAX calls to update web pages dynamically.** | **Assignment: Final project part 3, due by 11:59:59 PM Sunday 12/11/2022.**  **E-Portfolio update.** |
| **Day 79**  12/14/2022 | * **ANY/ALL WORK DUE TODAY!!!** | **Assignment: Part 3 of final project**  **And E-Portfolio due today.** |
| **Day 80**  12/15/2022 | * **Class Ends** |  |

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