

- **SC 368: Introduction to Web Development** is an excellent course designed for students who wish to dive into the fascinating world of web technologies. This course provides a comprehensive foundation in the fundamental concepts of web development, equipping learners with the tools and knowledge needed to build modern, dynamic, and responsive websites. It covers a wide range of topics, including the basics of web design, front-end development, back-end development, and the integration of these components into functional web applications.
- The course begins with an introduction to the structure and styling of web pages using HTML and CSS. Students learn how to create well-structured documents with semantic HTML tags and enhance the visual appeal of their pages through cascading styles. Special emphasis is placed on responsive design principles to ensure websites look great on devices of all sizes, from smartphones to desktops. This section also includes hands-on exercises that encourage creativity and help students understand the importance of user experience (UX) in web design.
- Building on this foundation, the course delves into front-end programming using JavaScript. Students learn how to add interactivity to web pages, manipulate the Document Object Model (DOM), and use JavaScript frameworks and libraries like React or Vue.js to build dynamic user interfaces. By the end of this module, participants can create feature-rich, interactive websites that go beyond static content.
- A significant part of SC 368 is dedicated to back-end development, introducing students to server-side programming and databases. Topics include creating and managing servers, handling HTTP requests, and developing RESTful APIs using languages such as Python, Node.js, or PHP. Additionally, students gain hands-on experience with relational and non-relational databases like MySQL and MongoDB, enabling them to store and retrieve data efficiently.
- The course also highlights essential web development practices, such as version control using Git. Students are introduced to tools like GitHub, where they learn to collaborate on projects and manage their codebases effectively. Moreover, topics like web accessibility and Ensuring that students create websites that are inclusive and discoverable.
- The learning experience in SC 368 is enriched by the guidance of experienced instructors and the availability of well-curated resources. Interactive sessions, peer collaboration, and regular feedback ensure that students stay engaged and motivated. Whether you're a beginner or someone looking to enhance your skills, SC 368 offers a supportive environment to grow.
- In conclusion, **SC 368: Introduction to Web Development** is more than just a course; it's an opportunity to explore the endless possibilities of the web. By blending creativity with technical skills, this course empowers learners to build impactful digital experiences, paving the way for a rewarding career in the ever-evolving field of web development.

