1. **Course number and name**  
   CptS 489: Web Development

2. **Credits and contact hours**  
   3 credits, 3 lecture hours

3. **Instructor’s or course coordinator’s name**  
   Chris Hundhausen

4. **Textbook, title, author, and year**  
   No textbooks used.  
   **Other supplemental materials**  
   Online course textbook: <w3schools.com>.  
   Instructor provides curated resources from web for each course topic.

5. **Specific course information**  
   a. **Catalog description:** Web development using markup languages, style sheet language, and scripting languages; developing and consuming web services; testing web applications.  
   b. **Prerequisites or corequisites:** CptS 322 with C or better; certified major in CptS, CE, EE, or SE.

6. **Specific goals for the course**  
   By the end of the course, students will be able to  
   ● Design, implement, and evaluate responsive web apps to meet a given set of requirements (2a, 2c, 2d, 2e, 2g)  
   ● Communicate effectively in a simulated job interview for a web developer position (3a, 3b, 3c, 3f)  
   ● Function effectively as a member of a web development team (5a 5b, 5d, 5f, 5g)  
   ● Design web apps that that enable users to complete supported tasks quickly and easily (6a, 6b, 6c)  
   ● Design web apps that are coded according to existing conventions and standards (6a)  
   ● Use appropriate learning strategies to acquire and apply new knowledge needed to solve web programming problems (7a - 7g)

7. **Brief list of topics to be covered**  
   ● Setting up a development environment for web development  
   ● HTML  
   ● CSS  
   ● JavaScript  
   ● jQuery  
   ● jQuery UI  
   ● jQuery Forms  
   ● jQuery UI
- React.js
- Development of web apps using Google Apps Script framework
- Consumption of web services using GET, POST, and AJAX protocols
- Modular web application design using file includes
- User-friendly and responsive web application design using navigation bars, side menus, bottom menus, and floating action buttons
- Client-side debugging techniques using pop-up alert boxes built-in browser tools
- Server-side debugging techniques using server log messages and server logs
- Development of web services and server-side programs using Google Apps Script