

Course Outline

1. Document Information

Degree Program	Computer Science
Course Number	CS 350
Course Title	Web Application Development
Semester Hours	3
Course Coordinator	Dunren Che
Revision Term	Spring 2020
Latest Revision	Fall 2020

2. Catalog Description

A comprehensive introduction to languages and tools used to create client side and server side Web applications. Topics include, but are not limited to, markup languages, scripting languages, dynamic web pages, processing forms, server-side technologies, and database access.

3. Textbooks

- Dayley, B. (2018). Node.js, MongoDB and Angular Web Development: The Definitive Guide to Using the MEAN Stack to Build Web Applications, Addison-Wesley, 2nd Edition, ISBN: 9780134655536.

4. References

5. Course Learning Outcomes

- To learn the various concepts of web application development.
- To learn the basic tools and languages related to web application development.

6. Assessment of the Contribution to Student Outcomes

Outcome	1	2	3	4	5	6
Assessed		X				X

7. Prerequisites by Topic

CS 202 and CS 221 with a grade of C or better or consent of the instructor.

8. Major Topics Covered in the Course

1. Introduction {2 classes}
2. HTML and XHTML {3 classes}
3. Cascading Style Sheets {3 classes}
4. JavaScript {6 classes}
5. Dynamic HTML with JavaScript {4 classes}
6. Java Applets {3 classes}
7. XML {3 classes}
8. Perl and CGI Programming {6 classes}
9. Java Servlets {4 classes}
10. PHP and Database Access {6 classes}