MONTGOMERY COLLEGE
Rockville Campus
Engineering, Physical and Computer Sciences Department
CMSC220 Client-Server Programming with Java

Instructor Information

Name: Office Location:
Mailbox: Office Phone:
Email:
Office Hours:

Course Information

Semester: Course CRN:
Class starts: Class ends:

Class Meetings: Classroom:
Midterm Exam: Final Exam:

Check MyMC class schedule for your Specific   Check MyMC class schedule for your
Deadline to Drop without a grade W or to change Specific Refund Deadlines
from audit to credit or from credit to audit

Course Description

Examines major topics in the development of applications for the World Wide Web: website development using HTML and related standards, implementation of client-side applications using Java programming language, and design of server-side web applications. **PREREQUISITE(S):** CMSC201 *or consent of department. Three hours each week. Formerly CS 220.*
3 semester hours

Course Outcomes

#	Upon completion of the course, the student will be able to:
1.	Develop simple Web sites using HTML and related standards.
2.	Implement client-side applications using the Java programming language, including user interface development, asynchronous event handling, multi-threaded programming, and network programming.
3.	Design server-side web applications.
4.	Develop server-side web applications using Web protocol (HTTP), client-side interfaces (e.g., via HTML forms), and the server-side technology (e.g., via Java Servlet and JavaServer Pages).

Course Materials

Textbook: Murach's Java Servlets and JSP, 3rd Edition, Joel Murach, Michael Urban
Publisher: Mike Murach & Associates, Inc

Textbook and other materials may be purchased through the bookstore

Companion Web Site: www.murach.com

Grade Basis

Final Examination	30%
Midterm Examination	20%
Quizzes on Reading Assignments (10)	20%
Assignments (5)	10%
Projects (5)	20%
Total:	**100%**

Grading Scale:

90 - 100%	A
80 - 89%	B
70 - 79%	C
60 - 69%	D
Below 60%	F

General Class Policies

- ❖ You are responsible for all work missed, and for meeting assignment due dates when absent. Please call or email your instructor if you are going to be late or absent.
- ❖ You are strongly encouraged to contact your instructor at home by phone or e-mail if you are having difficulties, or have any questions about assignments.
- ❖ Please include your name and the course information in the submitted assignments.
- ❖ Incomplete assignments receive no more than 50% of the grade.
- ❖ Assignments are considered incomplete, if they do not compile, they do not contain reasonable comments.
- ❖ There is always a means to submit your assignments on time. Be creative, be persistent, and keep your instructor informed!
- ❖ All assignments (Tests, Quizzes, Assignments, and Projects) must be turned in on or before the due dates to receive full credits.
- ❖ Missed Tests, Quizzes, Assignments, and Projects: NO MAKEUPS without a doctor's excuse. If the Final Exam is not taken, the student will receive a grade of F for the course.

Course Topics

Topics
Chapter 1 An introduction to Web Programming with Java
Chapter 2 How to structure a web app with the MVC
Chapter 3 How to use NetBeans
Chapter 4 A crash course in HTML5 and CSS3
Chapter 5 How to develop servlets
Chapter 6 How to develop JavaServer Pages (JSP)
Chapter 7 How to work with sessions and cookies
Chapter 8 How to use EL
Chapter 9 How to use JSTL
Chapter 10 How to use the JSP Tags
Chapter 11 How to use MySQL database
Chapter 12 How to use JDBC to work with a database
Midterm Exam
Chapter 13 How to use JPA to work with a database
Chapter 14 How to use JavaMail to send email
Chapter 15 How to use SSL to work with a secure conn
Chapter 16 How to restrict access to a web resource
Chapter 17 More security skills
Chapter 18 How to work with HTTP requests and resp
Chapter 21 How to work with JavaServer Faces (JSF)
Final Exam