

CIS 112 O2 SPRING 2010 CSM

INTERNET PROGRAMMING: AJAX

INSTRUCTOR Melissa Green greenm@smccd.edu <http://www.smccd.edu/accounts/greenm>
Office: 17-148 650-574-6374 Virtual office hours: T 8:30-10:00 PM

COURSE CIS 112 O2 CRN 42509 2 Units

NO ON-CAMPUS MEETINGS

Midterm Exam: due Friday, April 23 Final Exam: due Friday, May 28

TEXT Ajax Construction Kit by Michael Morrison Prentice Hall ISBN 0-13-235008-4

COURSE DESCRIPTION

Study of Ajax (Asynchronous JavaScript and XML) technologies, including JavaScript, HTML/XHTML, CSS, DOM, XML, and XMLHttpRequest. Covers Ajax design patterns, client- and server-side programming, RSS, JSON, browser issues, as well as advanced topics such as open source Ajax toolkits, mashups, security, performance, and Web Services.

Prerequisite: CIS 377 or equivalent.

Recommended Preparation: Eligibility for ENGL 836 or 848 and familiarity with the Internet.

GRADING

Assignments	50%	90-100	A	80-89	B
Midterm Exam	25%	70-79	C	60-69	D
Final Exam	25%	0-59	F		

Students with grades one point below cutoff will be promoted to the next highest grade if they have completed all assignments.

This course does allow “pass/no pass” grading. You must maintain a “C” average to receive credit for this course.

IMPORTANT DATES

Sunday, April 4, 2010	Last day to add class
Sunday, April 4, 2010	Last day to drop with eligibility for fee credit or refund
Sunday, April 4, 2010	Last day to declare pass/no pass option
April 3-9, 2010	Spring Break
Tuesday, April 20, 2010	Last day to drop class with no notation on student record
Monday, May 17, 2010	Last day to withdraw with a “W” on student record

COMPLETING ASSIGNMENTS

This course will require at least eight hours of computer work each week in addition to preparation time. There will be 5 programming assignments that will be graded on style and correctness, as well as other assignments. All assignments must be submitted by e-mail. Students are expected to do their own work. Any case of duplicate assignments will result in a grade of zero for all people involved. All assignments are due at 11:45 PM on the due date. Late assignments will have a 50% penalty and are accepted only up through the Monday following the due date. **NOTE:** any questions asked about an assignment on the due date will be answered on the following day.

FINAL EXAM SCHEDULE

The final exam covers all material for the semester.

CIS 112 O2 due Friday, May 28, 2010

PARTICIPATION

Anyone registered for the course must email me by Monday, March 22, 2010. Under normal circumstances I do **NOT** drop students from the class rolls. It is the student's responsibility to file the paperwork needed to drop or withdraw from this class. If you stop participating in the class you will probably receive an "F". If you have a documented disability and need accommodations for this class, please advise me immediately and contact the Disabled Students Programs & Services (DSPS) office: Bldg. 16, Room 150, Audra Fernandez: (650) 574-6438, fernandeza@smccd.edu

STUDENT LEARNING OUTCOMES

Upon completion of this course, students should be able to

1. Understand the various Ajax technologies and how they interact.
2. Write Web applications in JavaScript that use XMLHttpRequest to fetch XML or JSON data asynchronously from the server.
3. Develop interactive Web applications that integrate client- and server-side programming using JavaScript and a server-side language.
4. Explain Ajax design patterns and illustrate how they are used to create various Ajax applications.
5. Employ XML and JSON data sources in Ajax application development.
6. Create an advanced project using the various Ajax technologies, with attention to security and performance.