

Web Application Development I

[Schedule](#), [Class Web space](#)

[Information Technology & Supply Chain Management](#)
[College of Business and Economics](#)
[Boise State University](#)

Micron Lab Schedule

This is a preliminary syllabus. It may change during the semester

Course Description

ITM 325, Network Applications Development: Analysis, design, and implementation of on-line systems using Internet and World Wide Web standards. Topics include client-server architectural alternatives, tools and development environments, database interfaces, use of multimedia, and challenges unique to the delivery environments. Subject to resource and technology availability, students may implement projects using client-side scripting, server-side programming tools, or other distributed/cooperative processing approaches.

Prerequisites: Proficiency in at least one college-level class in a modern procedural programming language; ITM 305.

Corequisite: ITM 315

Planning note: It is required that you take this course before you take ITM 425, Web Application Development II

Meeting times and places:

- T/Th: 1:40-2:55 PM; B216 for Section 1
 - T/Th: 4:40-5:55 PM; B216 for Section 2
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Learning Objectives

The learning objectives for this course are that by the end of the semester students will:

- Understand how World-Wide Web clients (browsers) and servers interact through HTTP and other Internet and TCP/IP protocols.
- Be able to prepare and manage static Web documents using XHTML, CSS, and at least one high-level Web site development tool (any text editor, HTML-Kit).
- Be able to develop (program, test, implement, and maintain) client-side Web application programs which execute in conjunction with a browser (JavaScript).
- Be able to develop server-side Web application programs which execute in conjunction with a database server (PHP and MySQL).
- Be able to develop client-server application programs in which components execute on both the client side and one or more servers.
- Be able to develop simple XML-based applications formatted with XSL.
- Be familiar with the capabilities and limitations of at least one example Web application development environment (PHP).
- Understand programming, database, telecommunications, project management, and other important issues involved with developing Internet-enabled applications.

Assessment of these learning objectives will be done through exams, homework, project assignments.

The following chart outlines the COBE core objectives supported in this class:

Students in this class will learn or practice the following COBE Core Curriculum concepts, methods, and skills:	
1. Understand and apply analytical and disciplinary concepts and methods related to business and economics:	
<input checked="" type="checkbox"/>	1.5. Information Technology Management
<input type="checkbox"/>	2.1. Communicate effectively: Write messages and documents that are clear, concise, and compelling
<input type="checkbox"/>	2.2. Communicate effectively: Give oral presentations that use effective content, organization, and delivery
<input checked="" type="checkbox"/>	3. Solve problems, including unstructured problems, related to business and economics
<input type="checkbox"/>	4. Use effective teamwork and collaboration skills
<input type="checkbox"/>	5. Resolve ethical issues related to business and economics

Expectations for Students

You are a participant in the educational process and will be expected to share in the responsibility for making the class and your individual experience successful. The following expectations are emphasized:

Be professional: We will start class on time and end at or before the official ending time. Please do not arrive late, leave and return, or leave early from class. Turn off your cell phone, pager, or other distracting devices. Do not carry on conversations during lectures or student presentations. Do not bring children or visitors without prior permission.

Be reachable: Everyone will be expected to check their Boise State email address (e.g., SallyStudent@mail.boisestate.edu) every day. This will be your only email address used for class purposes, however you can make arrangements to forward your mail to other addresses. Blackboard will also be used and you will be expected to maintain your Blackboard email address as the same address as your Boise State address.

Be responsible: Attend every class and notify the professor if you will be unavoidably absent. Obtain class notes from another student if you miss class. Complete all assignments on time and allow for the possibility of technology availability problems--no late assignments can be accepted. If you will miss class because of a University-approved absence, turn in your assignment early. No make-up exams will be given.

Be flexible: Please understand that our computing and networking environment changes constantly, particularly in the Micron Networking and Telecommunications Teaching Laboratory (B216). We may need to adjust the schedule, the technologies used, and our planned activities at times. In trying to give you a state-of-the-art learning environment, we sometimes encounter inconveniences due to the installation and use of new software.

Be honest: High standards of student conduct and academic honesty will be expected. In addition to avoiding conduct prohibited by the Academic Dishonesty section of the BSU Student Handbook, students should make sure to perform assignments without unauthorized assistance and take care to cite references and outside sources as appropriate. In particular, students should be aware that copying ideas or material from the Internet and representing it as their own constitutes plagiarism. **The typical minimum consequence for academic dishonesty will be a failing grade in the course, with additional consequences for severe or repeated cases.** All assigned work must be considered individual assignments unless announced as group assignments, however students are welcome to help each other learn general concepts and technologies (but not specific assignment solutions). If in doubt, please ask.

Be present for all exams: Attendance on scheduled exam days is mandatory. I do not give make-up exams.

Follow lab rules: General rules for using the Micron lab are posted. It is designed as both a classroom and a lab, but will usually not be used as both at the same time. During classroom sessions the desktop workstations will normally be turned off to reduce noise and distractions. If

you bring a laptop to class, you may not use it for web browsing, checking email, etc., but may use it for note taking if this is not in any way distracting to the professor or other class participants. **The default will be no computers in use during lectures.**

Grading

Grading will be on a scale of 90-100%: A; 80-89.9%: B; etc. I will **NOT** be using a +/- scale. While some adjustments and/or scaling will be done based on the actual number of homework assignments, etc., the approximate breakdown of points is expected to be:

Exam 1	80
Exam 2	80
Projects, homework, and quizzes	240
Comprehensive final exam	100
Total	500

Homework assignments may be graded using a sampling or spot-checking system.

The Student Code of Conduct, which includes information on academic dishonesty and describes the reporting and the Conduct hearing processes, can be found at: <http://www.boisestate.edu/osrr/>

Faculty

Dr. Tim Chenoweth

B213F; 426-2901; timchenoweth@boisestate.edu

Office Hours: TBD

Text, Links, and other Online Materials

Online tutorials from <http://www.w3schools.com/> will be used in conjunction with HTML, XHTML, XML, JavaScript, and other topics.

Blackboard will be used to an extent yet to be determined. You can access it at <http://blackboard.boisestate.edu>.

Links to IDEs and Utilities: [HTML-Kit](#), [Tidy UI](#), [phpDesigner](#), [Web Dev firefox plugin](#).

You also might want to try [Notepad++](#).

Link to [winSCP](#)

[PHP web sight](#)

For those of you who want your own PHP development environment I would suggest the [phpdev](#). It comes with PHP, Apache, MySQL, PERL, phpMyAdmin, and PHP-GTK preconfigured to run "out of the box." Makes installation much easier.

A useful sight for downloading open source and shareware applications for most everything (including PHP, javascript, and XML) is [hotscripts.com](#).

A partial list of suggested [reference manuals](#).

Additional readings and Internet-accessible resources may be introduced over the course of the semester. Depending on the project you work on and the software you use, you may need to (or want to) purchase additional books or other materials.