

CSET 3250 Client-Side Scripting (3 semester credit hours)

CSET Elective  
IT Required**Current Catalog Description:**

Introduction to the Document Object Model (DOM), JavaScript and VBScript scripting languages, cascading style sheets, browser recognition, browser-specific content, data validation and layers. Prerequisite: CSET 3100

**Textbooks:**

None.

**References:**Course web pages: <http://cset.sp.utoledo.edu/cset3250/>**Related Program Outcomes:**

CSET Program Outcomes (b and i)

IT Program Outcomes (b and i)

See attached tables

**Course Objectives:**

After successful completion of this course, students will be able to:

- Utilize an application development methodology.
- Design client-side Web applications.
- Program client-side Web applications.
- Explain and utilize object models.
- Methodically handle browser and platform compatibility and security issues.

**Major Topics Covered in the Course**

Topic	Lecture Hours
Course Overview	1
Javascript	4
Programming Constructs	4
Objects and Properties	4
Forms and Events	4
VBScript Fundamentals	4
Programming Constructs	4
Objects and VBScript	4
VBScript and Forms	4
Java Applets	4
Applet and Parameter tags	4
Applet GUI Methods	4
Totals	45

**Laboratory Projects:**

None

**Oral and Written Communications**

Midterm and Final examinations are written using essay format and have a code writing component. In addition to being evaluated for technical content, all written materials are evaluated for grammar, spelling and punctuation.

**Social and Ethical Issues**

None

**Theoretical Content**

None

**Problem Analysis**

In assignments and exams, students are presented with a series of programming assignments and must select the proper algorithms to accomplish the tasks required.

**Solution Design**

None

**Course Coordinator:**

Hong Wang (hong.wang2@utoledo.edu)

2-24-2011

Syllabus: CSET 3250

CSET	Student Outcomes:	Course Outcomes	Assessment Methods
a	An ability to select and apply knowledge of computing and mathematics appropriate to the discipline. More specifically, an ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices. [CAC-j]		
b	An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution.	the ability to analyze and design and program client-side web applications	Graded homework assignments
c	An ability to design, implement and evaluate a computer-based system, process, component, or program to meet desired needs and to apply design and development principles in the construction of software systems of varying complexity. [CAC-k]		
d	An ability to function effectively as a member or leader on technical teams to accomplish a common goal.		
e	An understanding of professional, ethical, legal, security and social issues and responsibilities including a respect for diversity.		
f	An ability to communicate effectively with a range of audiences using a range of modalities including written, oral and graphical.		
g	An ability to analyze the local and global impact of computing on individuals, organizations, and society.		
h	Recognition and understanding of the need for and an ability to engage in self-directed continuing professional development.		
i	An ability to select and apply current techniques, skills, and tools necessary for computing practice.	The ability to design client-side web applications that effectively perform client side web computing	Graded homework assignment
j	An ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes.		
k	A commitment to quality, timeliness, and continuous improvement.		

Syllabus: CSET 3250

IT	Student Outcomes:	Course Outcomes	Assessment Methods
a	an ability to select and apply knowledge of computing and mathematics appropriate to the discipline. Specifically, an ability to use and apply current technical concepts and practices in the core information technologies. [IT-j]		
b	an ability to analyze a problem, and identify and define the computing requirements appropriate to its solution.	the ability to analyze and design and program client-side web applications	Graded homework assignments
c	an ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs. And, an ability to identify and analyze user needs and take them into account in the selection, creation, evaluation and administration of computer-based systems. [IT-k]		
d	an ability to function effectively as a member or leader on technical teams to accomplish a common goal.		
e	an understanding of professional, ethical, legal, security and social issues and responsibilities including a respect for diversity.		
f	an ability to communicate effectively with a range of audiences using a range of modalities including written, oral and graphical.		
g	an ability to analyze the local and global impact of computing on individuals, organizations, and society.		
h	recognition and understanding of the need for and an ability to engage in self-directed continuing professional development.		
i	an ability to select and apply current techniques, skills, and tools necessary for computing practice. And an ability to effectively integrate IT-based solutions into the user environment. [IT-l]	The ability to design client-side web applications that effectively perform client side web computing	Graded homework assignment
j	an understanding of best practices and their application. [IT-m]		
k	an ability to assist in the creation of an effective project plan. [IT-n]		