Course Title: Advanced Web Scripting

Course Number and Section: MM355   **Term:** Winter
Year: 2004

Number of Contact Hours: 6   **Time:** 3:00 pm Monday and Wednesday
Place: 180 N. Wabash

Instructor: Lindsay D. Grace

Office Phone / E-mail: LG3311@fac.aii.edu
Office Hours: TBA

Course Description:

This course will introduce students to the fundamentals of web script programming. Students will be taught the concepts, procedures, and standards to creating quality code for traditional object oriented and procedure based programming languages. Although the course will be taught primarily in JavaScript, students with a strong understanding will have little problem transitioning to other popular programming languages.

Textbook:
Beginning JavaScript
Paul Wilton
Paperback, 1056 pages, Second Edition
Wrox: **ISBN**: 0764544055

Required Materials
3 3.5" floppy disks (no exception), labeled with your name and disk number

Objectives:
Upon successful completion of this course, students should be able to explain and understand

- Client-side and server-side script code
- Programming fundamentals (variables, control structures, etc.)
- Interface design principles to interactive web sites
- Understand how to publish and distribute files on a network
- How to create programs that solve specified problems
- How to work in teams to solve problems through code

Weekly Schedule*

Week 1: Introduction and Chapter 1
        Review of HTML
        Overview of Programming Fundamentals
        Simple Debugging

Week 2: Chapter 2 and 3
        Data Types and Variables
        Decisions and Loops

Week 3: Chapter 3 and Supplements:
        Procedural Development
        Native functions
        Custom Functions

Week 4: Chapter 4 and 13
        Object Oriented Development
        The document object model (DOM)
        Event Handlers

Week 5: Chapter 6
        HTML forms and Validation
        Midterm

Week 6: User Interface Supplements
        Team proposals due
        Dynamic HTML

        Designing a user interface
        Development Samples

Week 7: Chapter 8
        Cascading Style Sheets
        Software Project Development and Management
        String Manipulation (if time)

Week 8: Chapter 5 and 15
        Introduction to Server Side Scripting
        Overview of Scripting languages and development
        BOM and Browser Compatibility

Week 9: Team Project Presentations (Beta)
        More Sever Side Scripting
        Development samples

Week 10: The Future of Web Scripting
        Publishing

Week 11: Final Presentations and Recommendations
        Final projects due (with documentation)

Grading System:

Point Score range	Letter Grade
93 and above	A
90-92	A-
87-89	B+
83-86	B
80-82	B-
77-79	C+
73-76	C
70-72	C-
67-69	D+
63-66	D
60-62	D-
Below 60	F

Score Breakdown:

Homework: 50%
Midterm Exam: 25%
Final Project: 25%

Course Requirements and Policies

All students must adhere to the guidelines set forth by the Illinois Institute of Art's student handbook.

All assignments are due at the beginning of the class. Students should hand provide a copy of their program on a **PC-formatted** 3.5" inch floppy disk.

Students should always keep a backup copy of their work.

No late assignments will be accepted. In this course, each assignment will build on the previous. Failure to complete the prior week's assignment will make each subsequent week harder. It is in your best interest to complete each assignment on time and to the best of your ability. Always hand in what you have, even if it does not work. **Partial credit is better than no credit at all.**

Attendance / Absences:

Students are expected to attend each class and arrive on time. Any student arriving late for an exam may not be given a chance to complete the exam. Late assignments are deducted one letter grade per day.

Makeup exams and acceptance of late assignments will only be granted in the following circumstances; Medical excuse, emergencies, campus-sponsored activities.

All issues of attendance and tardiness will be handled as school policy dictates and at the discretion of the instructor.

Cheating and Plagiarism:

Any student that cheats or plagiarizes will be reported to the academic standards committee and may be dismissed from the course.

All homework is to be completed independently (except when told otherwise). Any student who is caught or suspected of working in conjunction with any other student will be penalized. Using lines of code borrowed from any source other than the prescribed book for this course will be considered plagiarism. **Do not use websites, message boards, chat rooms, or other related resources to solve homework problems.**

*Schedule subject to change at the instructor's discretion.