

Revised (1/24) Syllabus for COP 1830 - Ref.# 111593

COURSE INFORMATION

Scope:

This course teaches the fundamentals of programming Web pages and sites. Topics include Web page design and client side scripting. Additional topics include XHTML, XML, Cascading Style Sheets (CSS), Dynamic HTML with JavaScript. The course involves extensive reading, practical exercises, (projects) and classroom examinations.

Prerequisites: Knowledge of computer programming is required.

Expected Course Outcomes: At the completion of the course, students should be able to:

- Apply critical thinking through problem solving.
- Communicate with clarity and precision.
- Define the terms normally associated with web browsing, searching, and web page design.
- Compose and validate web pages using XHTML.
- Define the differences between XHTML and prior versions of HTML.
- Demonstrate the construction of basic XHTML elements within a web page.
- Demonstrate how to link to elements both within and outside of a web page.
- Define clickable image maps within a web page.
- Prepare Web pages and sites using Cascading Style Sheets™ (CSS).
- Define the difference between inline, embedded and externally defined style specifications.
- Explain how JavaScript is used on a web page to create Dynamic HTML (DHTML).
- Demonstrate the implementation of the fundamental control structures in JavaScript.
- Demonstrate the implementation of functions using JavaScript.
- Explain how scalar and array data structures are implemented in JavaScript.

Assessment of Learning Outcomes:

Learning outcomes are determined by measuring the ability of each student to accomplish the learning objectives of the course as measured against industry standards, job descriptions, and state curriculum frameworks. The assessment tools used for this course include observation of mastery of critical skills and performance-based methods, such as completion of discussion posting activities, assigned projects, and online quizzes and a written final exam consisting of either essay, multiple-choice, true/false or fill-in-the-blank questions.

Dates: January 10 - April 26, 2008 - [See schedule below](#).

A detailed course schedule for this section of the course will also be posted in the course calendar on the [\[Blackboard server\]](#) for this course. It will show due dates for all course activities and provides links to instructions for each of them.

Textbooks:

- *HTML Complete, Third Edition* (Paperback) compiled by Sybex Inc. from multiple popular texts, ©2003, ISBN 0-7821-4209-5.
- *Perl, CGI, and JavaScript Complete, Second Edition* (Paperback) compiled by Sybex Inc. from multiple popular texts, ©2003, ISBN 0-7821-4213-3.

Required Materials:

- One [USB flash drive](#) (a.k.a. "Jump Drive" or "Thumb Drive") 32 MB or greater, for storage of hands-on class activities.
- Two [Magnetic Storage Diskettes](#): 3.5 inch, double sided, 720 KB or 1.44 MB capacity, for project submission.
- At least one 9" x 12" [clasp envelope](#) (any color) for project submission.

Web Site Addresses:

- Instructor's Page at <http://faculty.ircc.edu/FACULTY/RGibson/>
- Primary Class Page at <http://www.gibson.vero-beach.fl.us/classes/cop1830/>
- College Virtual Classroom (Blackboard) Site at: <http://webct6.ircc.edu/>
- Textbook Home Pages at:
 - HTML: <http://www.sybex.com/WileyCDA/SybexTitle/productCd-0782142095.html>
 - JavaScript: <http://www.sybex.com/WileyCDA/SybexTitle/productCd-0782142133.html>

INSTRUCTOR INFORMATION

Name & Department: Randolph Gibson, Computer Science

Office Location: V 424 (Main Campus) - 3209 Virginia Avenue, Ft. Pierce, FL 34981

Office hours: For latest schedule, view the web page at

<http://www.gibson.vero-beach.fl.us/classes/contact.html>

Phone Numbers:

Residence (Vero Beach) - 772-234-8941 (7 a.m.- 10 p.m.)

Main (Fort Pierce) Campus: 772-462-7620 (from outside S.L. County, dial: 866-866-4722 Ext. 7620)

Mueller (Vero Beach) Campus Faculty Office: 772-226-2514

College E-mail Address: rgibson@ircc.edu

STUDENT RESPONSIBILITIES

Participation:

You are expected to participate in each class meeting and will be tested on text *and lecture* content. It is your responsibility to notify me if you miss the daily roll call and to get the lecture notes from a classmate. Bring your textbook, a **pencil**, notepaper and one of your class diskettes to each class meeting. The maintenance and security of your textbook and storage media is your responsibility. The loss of these items does not exempt a student from his or her class/homework responsibilities.

Interruptions:

Portable electronic devices such as cellular phones, pagers, PDA's, media players, etc. must not be used during class. If you need to be reached at the college, use the following numbers:

- Daytime classes: Dean of Students 772-462-4706
- Night classes: Campus Security 772-462-4755

Contact:

You are responsible for keeping me informed of changes in your contact information. A password protected, web-based email account related to this course has been established for you on the IRCC Distance Learning Server to allow you to maintain contact with your instructor and to receive important notices from the college. This server is controlled by software named "Blackboard" (formerly known as "WebCT"). Instructions for [[using Blackboard](#)] and for [[logging into your account](#)] can be found under the [[E-Learning area of the IRCC Web Site](#)]. To ensure that you are accessible this semester, you must send me an email message using the Blackboard system within the first week of class that includes the following information: the course and reference number, your name, your phone number, and your county of residence. *Please also [maintain your personal contact records with the college](#) via the [\[Online Registration Page of the IRCC Web Portal\]](#).*

Assignments:

Blackboard® provides a group conferencing environment where students and teachers can post questions and have asynchronous discussions about topics of interest in this course. You will be required to participate in this area which is accessible from the class home page [[login here if desired](#)] under the link labeled "Discussion". Deadlines for your postings in the discussion area are listed in the [schedule below](#).

You will perform projects which may involve answering questions from the textbook or performing activities involving either your own computer or an IRCC server accessible by Internet or from an IRCC Computer Lab.

- You must do all projects alone! Plagiarism will not be tolerated and will result in severe disciplinary action.
- All projects must be completed in order to pass the course. Note this well! A student with A's on every exam and project will fail the course if they have not completed all projects and postings by the deadline for the final one. You might be asked to resubmit work after it is critiqued to

ensure that you have mastered important concepts and skills. Projects are not considered completed until accepted.

- Only projects that you submit at the *start* of class on their scheduled due dates will earn credit.
- Label everything: [diskettes](#), papers, etc.
- Put it all in a standard 9" x 12" [clasp envelope](#) (any color). Do *not* seal it. Do *not* put diskettes in plastic protectors. Label the envelope with at least: your name, the course & reference number, and the date.
- **Keep a copy of all work submitted.** Either copy individual disk files from one storage device to another (using Windows Copy and Paste commands) or [make a backup copy of your entire diskette](#).

Campus Computer Labs:

You are welcome to use the IRCC Computer Labs (in Room V 125 on the [\[Main Campus\]](#), Room J 211 on the [\[St. Lucie West Campus\]](#), Room 19 in [\[Stuart\]](#), and Room V 114 in [\[Vero Beach\]](#)) at times as noted on the lab doors. The Student Assistants who supervise the labs are there to provide general guidance in using lab equipment, but are not expected to be familiar with all software used in each course. Contact your instructor for help with software and other class topics.

Quizzes and Exams:

No more than 1 quiz may be made up. The make-up item might be more difficult than the original. You must contact your instructor and schedule and take the make-up no later than 7 days after the original. The final exam cannot be made-up without an Incomplete (I) grade. Make-up exams will be given in the [\[IRCC Assessment Center\]](#). You must take a photo ID (preferably a license) to the [\[IRCC Assessment Center\]](#) to take a test or complete an assignment.

Grading:

Instruments of Evaluation	Points
Five hands-on projects, each worth 20 points, totaling	100
Three Quizzes, each worth 50 points, totaling	150
Final Exam, worth 50 points, totaling	500
Your final grade is based on your percentage of	300

One bonus point will be awarded for each posting that you complete to your instructor's satisfaction *and submit on time*. These will be added to your overall score total and can help to bolster weak scores. You can check on your class performance using the MyGrades area of the Blackboard system. Final grades result from the total points each student earns divided by the total points available, based on the scale: 100-90% = A, 89-80% = B, 79-70% = C, 69-60% = D, 59-0% = F. Final grades are posted to the college website shortly after the last day of final exams at the web address

[\[http://webreg1.ircc.edu/FCCSC/navigate/student.jsp\]](http://webreg1.ircc.edu/FCCSC/navigate/student.jsp)

Withdrawal:

If you feel the need to withdraw, please speak with me about alternatives. You will *not* be automatically withdrawn if you stop coming to class. Withdrawal requires that *you* submit an official IRCC form through an Educational Services office on any campus or through online submission at:

[\[http://webreg1.ircc.edu/FCCSC/navigate/student.jsp\]](http://webreg1.ircc.edu/FCCSC/navigate/student.jsp)

Degrees & Certificates:

This course is a requirement of the Computer Information Technology A.S. Degree program at IRCC. You are strongly encouraged to consider the advantages of completing a Technical Certificate or an Associate Degree. Check with your counselor to see how close you may be to increased earning potential.

Publications:

The college provides extensive information to help students succeed. A list of links to some of the most important information can be found at

<http://www.gibson.vero-beach.fl.us/classes/ircclinks.html>

Professionalism:

Students enrolled in IRCC's Computer Science courses are encouraged to develop their professional character through participation in the local chapter of the national student organization, [\[Phi Beta Lambda\]](#). For more information, contact Professor Terri Holly <tholly@ircc.edu> at 772-462-7669.

COURSE SCHEDULE

Review the schedule in advance to determine any conflicts that may arise regarding holidays or travel plans. All dates listed below should be interpreted as final deadlines for activities that you will be performing in the class. Reading involving either the textbook or notes (posted online) should be completed before attempting any project or exam. You are welcome to submit work early. Try to stay **ahead** of the schedule; don't just keep up with it. Contact me immediately if you cannot meet a deadline.

This schedule and any changes to it will be posted on the course web site. You also are advised to review the [\[web pages regarding academic schedules\]](#) on the [\[IRCC web site\]](#).

The textbooks used in this course are compiled from other popular texts related to the content of this course. Beware that we will be jumping amongst chapters in the two texts and will not follow numeric sequence in each book. Chapters from [\[the book about HTML\]](#) will be identified below preceded by "HTML:". Chapters from [\[the book about Perl, CGI, and JavaScript\]](#) will be identified below preceded by "JavaScript:". We will not cover all chapters from these books, although all are valuable reading. The Appendices in these books are extensive and extremely useful reference material. When listed as a reading assignment below, you are expected to browse through the appendix, but not to study it in detail.

Exercises and review questions within the textbooks are useful, but will *not* be submitted for grading in this class.

Dates	Book/Chapter(s)	Topic / Event	Project or Posting Due
Thu 1/10	HTML: Intro., Chaps.1&2	Also browse HTML: Appendix A	
Thu 1/17	HTML: Chaps.3, 7 and 10	Creating Your First XHTML Document Formatting Your Pages and Adding Graphics	Post 1: Introduction
Thu 1/24	HTML: Chaps.4 and 11	Stepping Out: Linking Your Way Around the Web and Presenting Info. in Tables	Post 2: XHTML Postponed Proj.1: XHTML Validation
Thu 1/31	HTML: 1-4,7,10,11	Quiz 1 - XHTML	Postponed Post 2: XHTML, and Proj.2: XHTML Linked Pages
Thu 2/7	HTML: 16	Using Style Sheets (CSS)	
Thu 2/14	HTML: Ap.B	Browse Appendix B: CSS Reference	Post 3: CSS Subject
Thu 2/21	HTML: Chaps.19-21	XHTML: HTML Goes XML Introduction to XML Fundamentals of XML	Proj.3: CSS Validation
Thu 2/28	HTML: 16, 19-21	Quiz 2 - CSS & XML	
Thu 3/6	HTML: Chap.18 and JavaScript: Chap.1	Bringing Pages to Life with Dynamic HTML and XHTML and JavaScript: Learning the Fundamentals	
Thu 3/13	JavaScript: Chaps.2 & 3	JavaScript: Working with JavaScript and Adding JavaScript	Post 4: JavaScript Subject
Thu 3/20	HTML: 18, and Javascript: 1-3	Quiz 3 - JavaScript	Proj.4: First JavaScript Project
Thu 3/27	HTML: Chap.17 and Javascript: Chap.4	Developing Forms and Working with Objects	
3/31- 4/4	<i>IRCC SPRING BREAK NO CLASSES</i>		

Dates	Book/Chapter(s)	Topic / Event	Project or Posting Due
Thu 4/10	Javascript: Appendix A and Chap.5	Browse the appendix and read JavaScript: Processing Forms	
Thu 4/17	HTML: 17, and Javascript: 4-5	Review for Final Exam - JavaScript	Proj.5: Second JavaScript Project
Thu 4/24	HTML: 17, and Javascript: 4-5	Final Exam - 5:30-7:30 PM	
Sat 4/26			Post 5: Evaluation

Last Revised: 9 January 2008

www.gibson.vero-beach.fl.us/classes/cop1830/spr/cop1830r_08.html

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