

Syllabus for COP 1830 - Ref.# 120024

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, on-line discussions, practical exercises (projects) and 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.

Delivery Method:

This course delivered on-line via a web-based e-Learning environment named [Blackboard®](#). To learn how students interact with this online version of the course, see the web page about [COP 1830 Distance Learning Protocols](#). Students registered in online classes *for the first time at the college* are welcome to attend a *general* online orientation session on June 19th at 4:00, 5:00, and 6:00 PM in V-110 of the Kight Center for Emerging Technologies. A series of repeating specific orientation sessions about this course will be held every hour by your instructor from 4:00-7:00 PM in V-209A. For assistance, see the [JIRCC Blackboard® Support Page](#) or contact your instructor.

Participation in a distance learning course demands extreme academic discipline from the student. The substitution of distance learning mechanisms in place of face-to-face classroom participation requires that students define and maintain their own rigorous schedule of study. Understand that in a conventional classroom setting, the average student should expect to spend at least as much time studying outside of class as spent in class. This means that the average *distance learning* student should expect to spend *twice* as much time working on this class as you would sitting in the classroom for a conventional class.

Dates: June 23 - August 5, 2008 - [See schedule below](#).

A detailed course schedule for this online section of the course also can be found by viewing the course calendar on the [\[Blackboard server\]](#) for this course. It shows 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.

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 AM - 10 PM)

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

Mueller (Vero Beach) Campus: 772-226-2500

College E-mail Address: rgibson@ircc.edu

STUDENT RESPONSIBILITIES

Attendance:

In this course, you are required to come to the [IRCC Assessment \(Testing\) Center](#) on the Main Campus to take your final exam (see the [Course Schedule](#) below).

Contact:

You are responsible for keeping me informed of changes in your contact information. You must send me a message 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. All student email related to this course must be sent to the instructor via the Blackboard mail system. My email address within the Blackboard® system is my name "Randy Gibson". *Please also [maintain your personal contact records with the college](#) via the [\[Online Registration Page of the IRCC Web Portal\]](#).*

Participation:

You are expected to participate the class via email, group discussion facilities, and web-based instruction. Read the chapters in your textbooks as scheduled below. Be proactive in your study habits! Try to stay **ahead** of the schedule, don't just keep up with it. *Be aware that course schedules are compressed almost 3:1 during summer semesters. As such, we will be covering nearly one chapter per day this semester.*

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 also 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. Typically you will submit results of those projects as email attachments via Blackboard.

Please note the following important constraints:

- You must do all assignments alone! Plagiarism will not be tolerated and will result in severe disciplinary action.
- Points will be subtracted from any assignment that is not submitted as requested. Only assignments that you submit by 11 PM on the evening of their scheduled due dates will earn credit.
- All assignments must be completed in order to pass the course. Note this well! A student with A's on every quiz and project will fail the course if they have not completed *all* posting activities by the deadline for the final one.
- Keep a copy of all work submitted.

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 & Exams:

Your quizzes will be taken interactively through the Blackboard system and available for only a limited period of time as shown on the schedule below. These quizzes are accessible from the Blackboard® class home page [\[login here if desired\]](#) under the link labeled "Assessment". Because of the compressed schedule in the summer semester, the proctored final exam will be given at only the [Assessment \(Testing\) Center](#) on the Main Campus in W-109 in the W Building. You must take a photo ID (preferably a license) to the Assessment Center to take the test.

Grading:

Instruments of Evaluation	Points
Five hands-on projects, each worth 20 points, totaling	100
Three online Quizzes, each worth 50 points, totaling	150
Final (unit) exam (in an Assessment (Testing) Center)	50
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

<https://webreg1.ircc.edu/FCCSC/navigate/student.jsp>

Incomplete Grade:

IRCC policy states that an [Incomplete \(I\) grade](#) may be considered *only* in cases when a student is currently passing a course, but could not complete it due to circumstances judged to be beyond the student's control, and when there is a reasonable expectation that the work can be satisfactorily completed within a calendar year. An incomplete grade which is not resolved within a calendar year, will automatically become an "IF" (failing grade).

Withdrawal:

If you feel the need to withdraw, please speak with me about alternatives. You will *not* be automatically withdrawn if you stop participating in the 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

The schedule below contains deadlines for activities that you will be performing in the class. Reading involving either textbook or any online notes should be completed before attempting any assignment, quiz, or exam. Exercises and review questions within the textbooks are useful, but will not be submitted for grading in this class. Review the schedule in advance to determine any conflicts that may arise regarding holidays or travel plans. With the exception of listed windows of opportunity to take online quizzes or proctored exams, all other dates listed below should be interpreted as final deadlines for activities that you will be performing in the class. 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 6/19			Orientations hourly from 4-7 PM in V-209A
Mon 6/23	HTML: Intro. and Ch.1	It is expected that you are already familiar with the material discussed in Chapter 1, but if not, you should study it.	
Tues 6/24	HTML: Chap.2	Also browse HTML: Appendix A	
Wed 6/25	HTML: Chap.3	Creating Your First HTML or XHTML Document	
Thu 6/26	HTML: Chap.7	Formatting the Body Section of Your Pages	Post 1: Introduction
Fri 6/27	HTML: Chap.10	Adding Graphics	
Sat 6/28	HTML: Chap.4	Stepping Out: Linking Your Way Around the Web	Post 2: XHTML Subject
Sun 6/29			Proj.1: XHTML Validation
Mon 6/30	HTML: Chap.11	Presenting Information in Tables	
Tues 7/1			Proj.2: XHTML Linked Pages
Wed 7/2	Review	Review for Online Quiz 1 - XHTML	
Thu 7/3 -Fri 7/4	HTML: 1-4,7,10,11	Online Quiz 1 - XHTML	
Sat 7/5	HTML: 16	Using Style Sheets (CSS)	
Sun 7/6	HTML: Ap.B	Browse Appendix B: CSS Reference	
Tue 7/8			Post 3: CSS Subject
Wed 7/9			Proj.3: CSS Validation
Thu 7/10	HTML: Chap.19	XHTML: HTML Goes XML	
Fri 7/11	HTML: Chap.20	Introduction to XML	
Sat 7/12	HTML: Chap.21	Fundamentals of XML	

Dates	Book/Chapter(s)	Topic / Event	Project or Posting Due
Sun 7/13	Review	Review for Online Quiz 2 - CSS & XML	
Mon 7/14 -Tue 7/15	HTML: 16,19-21	Online Quiz 2 - CSS & XML	
Wed 7/16	HTML: Chap.18	Bringing Pages to Life with Dynamic HTML and XHTML	
Thu 7/17	JavaScript: Chap.1	JavaScript: Learning the Fundamentals	
Fri 7/18	JavaScript: Chap.2	JavaScript: Working with JavaScript	
Sun 7/20	JavaScript: Chap.3	JavaScript: Adding JavaScript	
Tue 7/22			Post 4: JavaScript Subject
Wed 7/23			Proj.4: First JavaScript Project
Thu 7/24	Review	Review for Online Quiz 3 - JavaScript	
Fri 7/25 -Sat 7/26	HTML: 18, and Javascript: 1-3	Online Quiz 3 - JavaScript	
Sun 7/27	HTML: Chap.17	Developing Forms	
Tue 7/29	Javascript: Chap.4	JavaScript: Working with Objects	
Wed 7/30	Browse JavaScript: Ap.A	JavaScript: Working with Objects	
Thu 7/31	JavaScript: Chap.5	JavaScript: Processing Forms	
Sat 8/2			Proj.5: Second JavaScript Project
Sun 8/3	Review	Review for Final Exam - JavaScript	
Mon 8/4 -Tue 8/5	HTML: 17, and Javascript: 4-5	Proctored Exam at <i>Main Campus</i> [IRCC Assessment Center]	Final (Unit) Exam
Wed 8/5			Post #5: Evaluation

Last Revised: 19 June 2008

www.gibson.vero-beach.fl.us/classes/cop1830/sum2/cop1830dl_08.html

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