



**COURSE NUMBER:** CSCI165

**CREDITS:** 3

**COURSE TITLE:** INTRODUCTION TO THE INTERNET AND THE  
WORLD WIDE WEB

**PREREQUISITES:** None

**Weekly Hours:** 3

**Lecture:** 1.5

**Lab:** 1.5

**Total Hours:** 39

**Total Weeks:** 13

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### **COURSE DESCRIPTION:**

This course is an elementary introduction to the Internet and the World Wide Web. Students will study the fundamental concepts and terminology of the Internet, examine a variety of multimedia used by the Internet, and acquire elementary programming skills to generate dynamic web pages. There are no prerequisites for this course; no prior computer science background is required, but students should have ready Internet access. This course is offered in-class, and by distance education.

### **REFERENCE TEXTBOOK:**

Web Development & Design Foundations with HTML5. 8<sup>th</sup> Edition. Author: Terry Felke-Morris, Publisher: Pearson. Published 2016.

ISBN-13: 978-0-13-432275-9



**LEARNING OUTCOMES:**

By successful completion of this course, you should be able

to: Describe how computers are connected to the Internet.

Explain how information is transmitted over the Internet.

List some of the services and protocols available on the Internet.

Explain the difference between the Internet and the World Wide Web.

Describe the client-server model for static and dynamic requests.

Explain the fundamentals of packet switching.

Create static web pages from validated XHTML 1.0 Strict.

Apply CSS design to web pages.

Use graphics files with web pages.

Compare and contrast the formats of computer graphic files.

Understand the basics of web design for creating usable web sites.

Use appropriate XHTML tags to define common elements of web pages, including HTML forms.

Describe and implement commonly used CSS properties and rules.

Explain the separation of web page content and structure using XHTML and

CSS. Create simple dynamic web pages using XHTML forms to capture user

input. Define simple algorithms using pseudocode.

Create PHP programs that use these language features: i/o, variables,  
data types, control structures, functions and files.

Construct programs from algorithms using standard programming  
methodologies. Trace the execution of programs.

Develop dynamic web sites using PHP for server-side processing.



**COURSE CONTENT:**

Week	Topic
Week 1	Introduction to Multimedia, The Internet and The World Wide Web
Week 2	The Internet, HTML, File Transfer
Week 3	XHTML, CSS
Week 4	XHTML, CSS, Numbering Systems, Web Design
Week 5	CSS, Quiz 1
Week 6	CSS, Web Design
Week 7	Midterm Exam, PHP Programming
Week 8	PHP Programming
Week 9	PHP Programming
Week 10	PHP Programming, Quiz 2
Week 11	PHP Programming
Week 12	PHP Programming
Week 13	PHP Programming, Quiz 3

**EVALUATION:**

Lab Assignments / Participation	15%
Midterm	30%
Final exam	35%
Quizzes / Lab Tests	20%
Total	100%

Midterm Exam – Questions types may include: multiple choice, short answer, interpreting code (predict the output), writing code, as well as other kinds of questions. Questions could be based on the course resources and notes, example programs, and lab activities.

Cheating: Students cheating on tests and exams will receive a “F” grade in this course.

If a student misses an exam, a mark of zero will be assigned unless there are extenuating circumstances. In such cases, the proportion of grade assigned to the missed exam will be added to the proportion assigned to the final exam. The final exam will be held during exam week. NO consideration will be given to any student wishing to write the exam at any other time than that assigned.

It is a student's responsibility to know and follow the school's policies regarding cheating on exams.

The school's policy regarding electronic devices is that any student who has a cell phone or other unauthorized electronic device (ie. Ipad, laptop, playbook, etc.) on their person or around their desk during an exam will be guilty of cheating and will a grade of “F” for the course.