CSIT 231: DYNAMIC FLASH & SCRIPTING PROGRAMMING ELEMENTS FOR WEB PAGES

1. Course Information

Subject
CSIT - Computer Science/ Information Technology

Course Number
231

School
Science, Technology, Engineering, Mathematics

Course Title
Dynamic Flash & Scripting Programming Elements for Web Pages

2. Hours

Semester Hours
3.00000

Lecture
3

Lab
0

Practicum
0

3. Catalog Description

For display in the online catalog
This course provides an overview of the construction of dynamic and interactive web pages with a concentration on client side, object-oriented core technologies, and server side scripting languages. The course will cover how dynamic content can be provided with plug-in technologies and scripting languages. The course improves the skills of current and aspiring website authors and Internet/Intranet developers. Open lab time required.

4. Requisites

Prerequisites
CSIT165 and CSIT133

Corequisites
None

5. Course Type

Course Fee Code
3

Course Type for Perkins Reporting
vocational (approved for Perkins funding)

6. Justification

Describe the need for this course
This is a program specific elective in the Computer Science/Information Technology AAS degree.

7. General Education

Will the college submit this course to the statewide General Education Coordinating Committee for approval as a course, which satisfies a general education requirement?

No

If the course does not satisfy a general education requirement, which of the following does it satisfy:

Elective

8. Consistency with the Vision and Mission Statements, the Academic Master Plan, and the strategic initiatives of the College

Please describe how this course is consistent with Ocean County College's current Vision Statement, Mission Statement, Academic Master Plan, and the strategic initiatives of the College:

	Add item
1	Offer comprehensive educational programs that develop intentional learners of all ages and ensure the full assessment of student learning in these programs. (Mission Statement)
2	Foster educational innovation through effective teaching-learning strategies, designed to develop and nurture intentional learners who are informed and empowered. (Vision Statement)
3	Employ technology and learning outcomes assessment to ensure student success in an increasingly diverse and complex world. (Vision Statement)
4	Prepare students for entrance into the workforce and/or for successful transfer to other educational institutions. (Academic Master Plan)
5	Seek to empower students through the mastery of intellectual and Practical Skills. (Academic Master Plan)
6	Challenge students to transfer information into knowledge and knowledge into action. (Academic Master Plan)

9. Related Courses at Other Institutions

Comparable Courses at NJ Community Colleges

Institution

Atlantic Cape CC

Course Title

Web Page Design

Course Number

CISM163

Number of Credits

3

Institution

Brookdale CC

Course Title

None

Institution

Rowan College at Burlington County

Course Title

Fundamentals of Web Design

Course Number

CIS-155

Number of Credits

3

Institution
Camden County College

Course Title
Web Development

Course Number
CGR-220

Number of Credits
3

Institution
Mercer County CC

Course Title
None

Transferability of Course

Georgian Court University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
CS209 Programming for the Web 3 cr.	Computer Science Elective	

Kean University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
CPSX1003 Computer Science Free Elective 3 cr.	Computer Science Elective	

Monmouth University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
CS002 200 Level Computer Science Elective 3 cr.	Computer Science Elective	

Rowan University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
INTR99070 Free Elective 3 cr.	Elective	

Rutgers - New Brunswick, Mason Gross School of the Arts

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
		Will not transfer

Stockton University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
CSISEC Comp Science & Info Sys Elective	Computer Science Elective	

10. Course Learning Outcomes

Learning Outcomes

	Students who successfully complete this course will be able to:
CLO1	Develop scripting and programming languages to create quality Web sites that are dynamic and interactive.
CLO2	Use basic script elements, variables, rules, flow control structures functions and event handlers.
CLO3	Create pop-up windows, image rollovers, and form validation.

CLO4	Employ scripts and use DirectAnimation multimedia as well as plug in controls to animate Web pages and control applets.
CLO5	Apply Structured Graphics to control various shapes with filters and transitions to create special effects.
CLO6	Describe how to use Sequence Control to control timing and synchronization of Transactions on a Web page.

11. Topical Outline

(include as many themes/skills as needed)

	Major Themes/ Skills	Assignments (Recommended but not limited to)	Assessments (Recommended but not limited to)	Course Learning Outcome(s)
TO1	Introduction 1. How Browsers and Web Servers work Protocols - HTTP	None	None	CLO1
TO2	Introduction to Scripting 1. Adding scripting to an HTML page 2. Input and Output scripting statements Variables	Hands-on; Lab exercises	Programming Exercises; Exam	CLO1,CLO2
TO3	Scripting – Advanced Topics 1. Control Structures 2. Basic problem-solving techniques Creating and using Functions	Hands-on; Lab exercises	Programming Exercises; Exam	CLO1,CLO2
TO4	Common Applications with Scripting 1. Form Validation 2. Event Handling 3. User Interaction 4. Creating Windows Interactive Graphics	Hands-on; Lab exercises	Programming Exercises; Exam	CLO2,CLO3,CLO6
TO5	Adding Dynamic Elements 1. Using Programming for Viewer Involvement 2. Action Scripting and Programming Commands 3. Applying Actions to Created Objects 4. Utilizing Action Scripting in the Web Animation 5. Normal vs. Expert Mode 6. Navigation and Interaction for the End User 7. Applying the Algorithm to build a cohesive Web Animation Complex Animations	Hands-on; Lab exercises	Programming Exercises; Exam	CLO3-CLO6
TO6	Imported Objects 1. Compatibility among Formats 2. Utilizing and Implementing Objects 3. Layers and Merging 4. Symbols and Libraries a. Sound	Hands-on; Lab exercises	Programming Exercises; Exam	CLO2,CLO4

12. Methods of Instruction

In the structuring of this course, what major methods of instruction will be utilized?

Class notes, textbooks, presentations, software and online materials.

13. General Education Goals Addressed by this Course (this section is to fulfill state requirements)

Information

_____

_____

_____

Technological Competency
Yes

Related Course Learning Outcome
CLO1-CLO6

Related Outline Component
TO1-TO6

Assessment of General Education Goal (Recommended but not limited to)
Mastering the basic skills necessary to take written specifications and create a dynamic and quality web site. Knowledge of web scripting methods, practices and technologies.

_____

_____

_____

_____

_____

_____

_____

Independent/Critical Thinking
Yes

Related Course Learning Outcome
CLO1-CLO6

Related Outline Component
TO1-TO6

Assessment of General Education Goal (Recommended but not limited to)
Mastering the basic skills necessary to create a quality website

14. Needs

Instructional Materials (text etc.):
An appropriate text or open educational resource will be selected. Contact the department for Current adoptions. Class notes, presentations, and online materials

Technology Needs:
College Portal and/or College Distance Learning Platform and/or Textbook or Instructor Website.

15. Grade Determinants

The final grade in the course will be the cumulative grade based on the following letter grades or their numerical equivalents for the course assignments and examinations

A: Excellent

B+: Very Good

B: Good

C+: Above Average

C: Average

D: Below Average

F: Failure

I: Incomplete

R: Audit

For more detailed information on the Ocean County College grading system, please see Policy #5154.

16. Board Approval

History of Board approval dates

Revised: December 1990; February 27, 1996; April 30, 1996; December 1998; May 4, 2004; Feb. 28, 2006; March 8, 2006
Board of Trustees Approval Date: September 24, 2007
Board of Trustees Approval Date: March 26, 2012
PLT Approval of Form: May 22, 2012
Board of Trustees Approval Date: November 4, 2013
Board of Trustees Approval Date: November 5, 2020