# COURSE SYLLABUS

## Course Title:
Programming for New Media

## Department:
Computer Information Systems

## Curriculum:
New Media Communication/ CIS

### Course Code:
CSA*157

### Prerequisites:
C- or better in Programming Logic and Design with Visual Basic (CSC*126) and Intermediate Algebra (MAT*137).

### Elective Type:
FA/G/HU/LAS

### Contact Hours:
- Lecture: 1
- Clinical: 0
- Lab: 0
- Studio: 0
- Other: 0
- TOTAL: 1

### Credit Hours:
1

### Corequisites:
None

### Other Requirements:
None

## Catalog Course Description:
Introduces students to programming technologies, with focus on Web-based interactions, database technologies, and emergent coding environments. This course emphasizes problem solving, project building, and new media literacy. The subject for this course changes by semester.

## Suggested Topics
1. RESTful Applications
2. Formal Specifications and Data Formats
3. Server-side Scripting Languages
4. Client-side Scripting Languages
5. Asynchronous Communication
6. Code Libraries
7. Frameworks
Upon successful completion of this course, the student will be able to do the following:

COURSE: Problem Solving
C. Articulates processes for solving problems
   Level 2: Identifies and describes the steps involved in a problem solving process

Project Building
A. Develops and follows production processes, sequences, and techniques
   Level 3: Develops and applies a process to a specific project and connects that process to a project’s outcome
B. Evaluates the complexities and limitations of project development given different information delivery methods, systems, and the needs of multiple audiences
   Level 2: Compares and evaluates an information delivery method in relation to another and draws inferences about their audiences and use

New Media Literacy
A. Describes, evaluates, and compares systems
   Level 2: Analyzes and evaluates the inherent properties of a system in relation to another
   Level 3: Uses critical strategies to interpret the structural and aesthetic elements of traditional and digital systems
B. Effectively communicates new media concepts, experiences, and their contexts
   Level 3: Describes, evaluates, and compares using research processes

PROGRAM: (Numbering reflects Program Outcomes as they appear in the college catalog)

Problem Solving
C. Articulates processes for solving problems

Project Building
A. Develops and follows production processes, sequences, and techniques
B. Evaluates the complexities and limitations of project development given different information delivery methods, systems, and the needs of multiple audiences

New Media Literacy
A. Describes, evaluates, and compares systems
B. Effectively communicates new media concepts, experiences, and their contexts

GENERAL EDUCATION: (Numbering reflects General Education Outcomes as they appear in the college catalog)

2. Critical Analysis/ Logical Thinking - Students will be able to organize, interpret, and evaluate evidence and ideas within and across disciplines; draw reasoned inferences and defensible conclusions; and solve problems and make decisions based on analytical processes.

   Demonstrates: Identifies the issue(s); formulates an argument; explains and analyzes relationships clearly; draws reasonable inferences and conclusions that are logical and defensible; provides support by evaluating credible sources of evidence necessary to justify conclusions.

   Does Not Demonstrate: Identifies few or no issues; formulates an argument without significant focus; provides an unclear explanation of analysis and relationships; drawing few reasonable inferences and conclusions that are illogical and indefensible; provides little to no support using credible sources of evidence necessary to justify conclusions.
| **Evaluation:** | Assessment will be based on the following criteria:  
Programming assignments  
Written reports  
Self-assessments  
Short design documents |
|------------------|--------------------------------------------------------------------------------------------------|
| **Instructional Resources:** | Required: Existing resources are adequate for this course.  
Desired: None |
| **Textbook(s)** | Content subject to change. |