

CIS 097: CODE COMPUTER LAB

Originator

gwilliams

Justification / Rationale

CODE Computer Lab is an open entry/open exit environment designed to develop coding and programming skills for all students in the college community. A primary purpose is provide an opportunity for concurrently enrolled high school students participating in the recently created CODE Summer Program to earn credit if they wish. Enrollment in CODE Summer Computer Lab is not a requirement for participation in the CODE Computer Lab Program.

Effective Term

Fall 2019

Credit Status

Credit - Non Degree Applicable

Subject

CIS - Computer Information Systems

Course Number

097

Full Course Title

CODE Computer Lab

Short Title

CODE COMPUTER LAB

Discipline**Disciplines List**

Computer Information Systems (Computer network installation, microcomputer technology, computer applications)

Modality

Face-to-Face

Catalog Description

CODE Computer Lab is an open entry/open exit lab designed to develop coding and programming skills for all students in the College community. Emphasis is on high school concurrent enrollment for students who wish to do so. Enrollment in CODE Summer Computer Lab is not a requirement for participation in the CODE Program. Lab will focus on a one-to-one tutorial approach, with time devoted to completing assigned lab projects.

Schedule Description

CODE Computer Lab. Students receive a Pass/No Pass grade mark.

Lab Units

.5

Lab Semester Hours

27

In-class Hours

27

Out-of-class Hours

0

Total Course Units

0.5

Total Semester Hours

27

Required Text and Other Instructional Materials

Resource Type

Software

Description

Software to be chosen by CIS faculty as appropriate. Text books appropriate to the software selected

Class Size Maximum

50

Course Content

Lecture: N/A

Lab Content

1. Editing, compiling and debugging computer programs written for Arduino and Raspberry Pi.
2. Use of microcomputers, operating systems, applications, and development tools.
3. Use of Web, Programming and Database software packages.

Course Objectives

	Objectives
Objective 1	Develop writing, editing, assembling, compiling and debugging skills for programming of the Arduino and Raspberry Pi platforms.
Objective 2	Enhance keyboarding skills.
Objective 3	Participate in one-to-one tutorial time with the instructor and student mentors.

Student Learning Outcomes

Upon satisfactory completion of this course, students will be able to:	
Outcome 1	Write, edit, assemble, compile and debug programs for the Arduino and Raspberry Pi platforms.

Methods of Instruction

Method	Please provide a description or examples of how each instructional method will be used in this course.
Laboratory	Hands-on exercises; practice with equipment and applications.
Laboratory	Project-based learning, both individually and as part of a team.

Methods of Evaluation

Method	Please provide a description or examples of how each evaluation method will be used in this course.	Type of Assignment
Laboratory projects	Students will be evaluated on project completion and/or demonstrated knowledge of programming, compiling and debugging Arduino and/or Raspberry Pi software.	In Class Only
Laboratory projects	Positive attendance at laboratory sessions.	In Class Only

Assignments

Other In-class Assignments

1. Hands on use of programming languages specific to Arduino and Raspberry Pi platforms with assistance
2. One-to-one conferences and tutoring.
3. Assistance in using any program taught in the Computer Information Systems curriculum.

Grade Methods

Pass/No Pass Only

MIS Course Data

CIP Code

11.0103 - Information Technology.

TOP Code

070200 - Computer Information Systems

SAM Code

C - Clearly Occupational

Basic Skills Status

Not Basic Skills

Prior College Level

Not applicable

Cooperative Work Experience

Not a Coop Course

Course Classification Status

Credit Course

Approved Special Class

Not special class

Noncredit Category

Not Applicable, Credit Course

Funding Agency Category

Not Applicable

Program Status

Stand-alone

Transfer Status

Not transferable

Allow Audit

No

Repeatability

No

Materials Fee

No

Additional Fees?

No

Approvals

Curriculum Committee Approval Date

02/05/2019

Academic Senate Approval Date

02/14/2019

Board of Trustees Approval Date

03/15/2019

Chancellor's Office Approval Date

03/29/2019

Course Control Number

CCC000604004