CS/IS49 : Computer Science/ Information Systems Independent Study

General Information

Author:	James Miketta
Course Code (CB01) :	CS/IS49
Course Title (CB02) :	Computer Science/ Information Systems Independent Study
Department:	CSIS
Proposal Start:	Winter 2025
TOP Code (CB03) :	(0702.00) Computer Information Systems
CIP Code:	(11.0103) Information Technology.
SAM Code (CB09) :	Clearly Occupational
Distance Education Approved:	No
Will this course be taught asynchronously?:	No
Course Control Number (CB00) :	CCC000391393
Curriculum Committee Approval Date:	03/27/2024
Board of Trustees Approval Date:	06/18/2024
Last Cyclical Review Date:	03/27/2024
Course Description and Course Note:	CS/IS 49 provides independent exploration to familiarize students with research techniques, career options, and special academic interests in computer science and information systems. Emphasis shall be on individual research projects, library research, and/or preparation of research papers. There is no prescribed course content. Students develop and complete a research project approved by the sponsoring instructor and division chairperson. Note: Registration is open to any student at GCC who is currently registered for six or more units and who is admitted to Independent Study by the instructor. A student is limited to one Independent Study per semester and no more than 12 units credit toward the AA Degree or Certificate, and no more than six units per division. The units received may be acceptable for college transfer subject to the approval of the individual college. This course may be taken 3 times; a maximum of 9 units may be earned.
Justification:	Mandatory Revision
Academic Career:	• Credit
Author:	No value

Academic Senate Discipline		
Primary Discipline:	Computer Information Systems (Computer network installation, microcomputer technology, computer applications)	
Alternate Discipline:	Computer Science	
Alternate Discipline:	No value	

Course Development			
Basic Skill Status (CB08)		Course Special Class Status (CB13)	Grading Basis
Course is not a basic skills cours	e.	Course is not a special class.	Grade with Pass / No-Pass Ontion
	1. h.	Pre-Collegiate Level (CB21)	Course Support Course Status (CB26)
Allow Students to Gain Credit by Exam/Challenge		Not applicable.	Course is not a support course
Transferability & Gen.	Ed. Opti	ons	
General Education Status (Cl	325)		
Not Applicable			
Transferability Transferability Status		tatus	
Transferable to CSU only Approved			
Units and Hours			
Summary			
Minimum Credit Units (CB07)	1		
Maximum Credit Units (CB06)	3		
Total Course In-Class	54 -		
(Contact) Hours	162		
Total Course Out-of-Class Hours	0 - 0		
Total Student Learning	54 -		
Hours	162		
Credit / Non-Credit Op	otions		
Course Type (CB04)		Noncredit Course Category (CB22)	Noncredit Special Characteristics
Credit - Degree Applicable		Credit Course.	No Value
Course Classification Code (CI	311)	Funding Agency Category (CB23)	Cooperative Work Experience
Credit Course		Not Applicable	Education Status (CB10)

Credit Course.

Variable Credit Course

Weekly Student Hours

	In Class	Out of Class	Course Duration (Weeks)	18
Lecture Hours	0	0	Hours per unit divisor	54
Laboratory	3 - 9	0	Course In-Class (Contact) Hours	
Hours Studio Hours 0			Lecture	0
	0	0	Laboratory	54 - 162
			Studio	0

Course Student Hours

Not Applicable.

Total	54 - 162
Course Out-of-Class Hours	
Lecture	0
Laboratory	0
Studio	0
Total	0
Time Commitment Note	es for Students
No value	

Units and Hours - Weekly Specialty Hours			
Activity Name	Туре	In Class	Out of Class
No Value	No Value	No Value	No Value
Pre-requisites, Co-requisites, Anti-requisites and Advisories			

Co-Requisite

Concurrent registration in 6 or more units

AND

Advisory

ABSE186 - Essentials in Reading and Paragraph Writing (in-development)

Objectives

• Compose a 400 to 450-word thesis-based essay which: (a) summarizes and cites appropriately a reading passage provided as a prompt, (b)includes a clear thesis statement, (c) uses evidence to support the thesis, (d) shows clear organization into an introduction, body, and conclusion, and (e) uses appropriate rhetorical modes such as comparison/contrast, cause/effect, and persuasion in order to support a thesis.

Entry Standards

Entry Standards

Course Limitations

Cross Listed or Equivalent Course

Specifications				
Methods of Instruction Methods of Instruction	Laboratory			
Out of Class Assignments Research project 				
Methods of Evaluation Other	Rationale Not applicable.			
Textbook Rationale No Value				
Textbooks Author	Title	Publisher	Date	ISBN
No Value	No Value	No Value	No Value	No Value
Other Instructional Materials (i.e	e. OER, handouts)			
Description Author Citation Online Resource(s)	To be determined GCC Instructor No value No value	by Instructor and interns	hip need	
Materials Fee No value				
Learning Outcomes and	Objectives			
Course Objectives				
Conduct independent discipline-specific research activities.				
Demonstrate a specific in-depth knowledge in the discipline involved.				

SLOs

Apply concepts and knowledge of discipline-specific materials to research projects, essays, and other assignments.

FL 7	Expected Outcome Performance: 70.0
CSIS Computer Programmer - Certificate	Analyze a programming task/problem; based on that analysis, design and implement an object oriented program using multiple classes in a high level language.
ILOs Core ILOs	Analyze and solve problems using critical, logical, and creative thinking; ask questions, pursue a line of inquiry, and derive conclusions; cultivate creativity that leads to innovative ideas.
	Demonstrate depth of knowledge in a course, discipline, or vocation by applying practical knowledge, skills, abilities, theories, or methodologies to solve unique problems.
CSIS Information Technology - A.S. Degree Major	Demonstrate an understanding of ethical concern associated with information technology including access, reliability, legal, ethical, and accuracy; identify types of computer crime; select, access, and use appropriate sources.
	Demonstrate installing, configuring, and maintaining computer and mobile devices, including diagnosing, resolving, and documenting common hardware and software.
	Demonstrate the proper server operation procedures, maintenance procedures and managing risks associated with real world networks.
CS/S Information Technology Certificate	Demonstrate an understanding of ethical concern associated with information technology including access, reliability, legal, ethical, and accuracy; identity types of computer crime; select, access, and use appropriate sources.
Certificate	Demonstrate installing, configuring and maintaining computer and mobile devices, including diagnosing, resolving and documenting common hardware and software.
	Demonstrate the proper server operation procedures, maintenance procedures and managing risk associated with real world networks.
CS/S Computer Science - A.S. Degree Major	Prepare a software project to implement a single scientific, mathematical, business, or technical function.
CSIS Computer Science - Certificate	Prepare a software project to implement a single scientific, mathematical, business, or technical function.
CSIS Computer Information	analyze simple business or technical problems relevant to programming, and prepare solutions to them
Systems	demonstrate an understanding of the operations and processes of a computer relevant to programming.
	implement a program in either C/C++ or Java, using objects
CSIS Computer Support	demonstrate an understanding of computer structure and operations
Computer Support – Technician	possess a basic knowledge of computer operation and capabilities with the skills to troubleshoot problems or aid in user support.
CSIS Computer Software Technician –	demonstrate the ability to independently create, save, modify and print a document using a word processing program and appropriate assistive technology
	write a computer program using either C/C++, Java, or Visual Basic
<i>CSIS</i> Web Development - Certificate	use industry standard tools and techniques to produce, publish and maintain Web sites and Web content.
<i>CSIS</i> Web Development - A.S. Degree Major	use industry standard tools and techniques to produce, publish and maintain Web sites and Web content.

Additional SLO Information

Does this proposal include revisions that might improve student attainment of course learning outcomes?

No
Is this proposal submitted in response to learning outcomes assessment data?
No
If yes was selected in either of the above questions for learning outcomes, explain and attach evidence of discussions about learning outcomes.
No Value
SLO Evidence
No Value
COurse Content

Lecture Content

No value

Laboratory/Studio Content

Research project (54-162 hours)

Total hours: 54-162

Additional Information

Is this course proposed for GCC Major or General Education Graduation requirement? If yes, indicate which requirement in the two areas provided below.

No

GCC Major Requirements

No Value

GCC General Education Graduation Requirements

No Value

Repeatability

Not Repeatable

Justification (if repeatable was chosen above)

No Value

Resources

Did you contact your departmental library liaison?

No

If yes, who is your departmental library liason?
No Value
Did you contact the DEIA liaison?
No
Were there any DEIA changes made to this outline?
No
If yes, in what areas were these changes made:
No Value
Will any additional resources be needed for this course? (Click all that apply)
• No
If additional resources are needed, add a brief description and cost in the box provided.
No Value