

I. CATALOG INFORMATION

- A. Discipline: COMPUTER SCIENCE (CS)
- B. Subject Code and Number: CS M122
- C. Course Title: Independent Study-Computer Science

- D. Credit Course units:
 Units: 0.5 – 3
 Lecture Hours per week: 0
 Lab Hours per week : 1.5 – 9
 Variable Units : No

- E. Student Learning Hours:
 Lecture Hours:
 Classroom hours: 0 - 0
 Laboratory/Activity Hours:
 Laboratory/Activity Hours 26.25 - 157.5

Total Combined Hours in a 17.5 week term: 26.25 - 157.5

- F. Non-Credit Course hours per week _____

- G. May be taken a total of: ☒ 1 ☐ 2 ☐ 3 ☐ 4 time(s) for credit

- H. Is the course co-designated (same as) another course: No ☒ Yes ☐
 If YES, designate course Subject Code & Number: _____

- I. Course Description:

Allows independent study for students who wish to extend their knowledge of a particular area of Computer Science through research and study. Utilizes an approved independent project. Includes one-on-one work with instructor.

- J. Entrance Skills

*Prerequisite: No ☐ Yes ☒ Course(s)
Completion of one course in Computer Science and instructor approval.

*Corequisite: No ☒ Yes ☐ Course(s)

Limitation on Enrollment: No ☒ Yes ☐

Recommended Preparation: No ☒ Yes ☐ Course(s)

Other: No ☒ Yes ☐

- K. Other Catalog Information:

Interested students should contact a Computer Science instructor for assistance in developing a contract for learning about a specific topic. May be taken for a maximum of 6 units. Formerly CS M22A/B. Transfer credit: CSU; UC (determined after admission).

II. COURSE OBJECTIVES

Upon successful completion of the course, a student will be able to:

		Methods of evaluation will be consistent with, but not limited by, the following types or examples.
1	analyze new information, practices, or research in the computer science discipline and utilize those findings in further research or creative projects.	Successful completion of a course project, i.e., portfolio, paper, presentation, software, equipment, or research. Specific evaluation methods will be determined by the instructor in consultation with the student.
2	apply the knowledge acquired to other areas of the computer science discipline.	Successful completion of a course project, i.e., portfolio, paper, presentation, software, equipment, or research. Specific evaluation methods will be determined by the instructor in consultation with the student.
3	formulate statements designed to assess the applicability of their knowledge to other related topics.	Successful completion of a course project, i.e., portfolio, paper, presentation, software, equipment, or research. Specific evaluation methods will be determined by the instructor in consultation with the student.

III. COURSE CONTENT

Estimated %	Topic	Learning Outcomes
Lecture (must total 100%)		
Lab (must total 100%)		
100.00%	Project content and specific topics will be determined by the student in consultation with the supervising faculty member.	1, 2, 3

IV. TYPICAL ASSIGNMENTS

A. Writing assignments

Writing assignments are required. Possible assignments may include, but are not limited to:	
1	projects to be determined in conversations between the instructor and the student.
2	development of project-related documents.

B. Appropriate outside assignments

Appropriate outside assignments are required. Possible assignments may include, but are not limited to:	
1	projects to be determined in conversations between the instructor and the student.

C. Critical thinking assignments

Critical thinking assignments are required. Possible assignments may include, but are not limited to:	
1	projects to be determined in conversations between the instructor and the student.

V. METHODS OF INSTRUCTION

Methods of instruction may include, but are not limited to:

☐ Distance Education – When any portion of class contact hours is replaced by distance education delivery mode (Complete DE Addendum, Section XV)

☐ Lecture/Discussion

☒ Laboratory/Activity

☒ Other (Specify)

The specific methods to be used will be determined by the supervising faculty member in consultation with the student.

☒ Optional Field Trips

☐ Required Field Trips

VI. METHODS OF EVALUATION

Methods of evaluation may include, but are not limited to:

☒ Essay Exam

☐ Classroom Discussion

☒ Skill Demonstration

☒ Problem Solving Exam

☒ Reports/Papers/Journals

☐ Participation

☐ Objective Exams

☒ Projects

☒ Other (specify)

Specific evaluation methods will be determined by the instructor in consultation with the student.

VII. REPRESENTATIVE TEXTS AND OTHER COURSE MATERIALS

Specific books, articles, software, programming tools, etc. used will be determined by the supervising faculty member in consultation with the student.

VIII. STUDENT MATERIALS FEES

☒ No ☐ Yes

IX. PARALLEL COURSES

College	Course Number	Course Title	Units
El Camino College	CS 99ABC	Independent Study in Computer Science	1-3
Santa Monica College	CS 88A/B/C	Independent Study in Computer Science	1-3
Los Medanos College	COMSC-098	Independent Study in Computer Science	0.5-5

X. MINIMUM QUALIFICATIONS

Courses Requiring a Masters Degree:

Master's in computer science or computer engineering OR Bachelor's in either of the above AND Master's in mathematics, cybernetics, business administration, accounting or engineering OR Bachelor's in engineering AND Master's in cybernetics, engineering mathematics, or business administration OR Bachelor's in mathematics AND Master's in cybernetics, engineering mathematics, or business administration OR Bachelor's degree in any of the above AND a Master's degree in information science, computer information systems, or information systems OR the equivalent.

XI. ARTICULATION INFORMATION

A. Title V Course Classification:

1. This course is designed to be taken either:

- ☐ Pass/No Pass only (no letter grade possible); or
☒ Letter grade (P/NP possible at student option)

2. Degree status:

Either ☒ Associate Degree Applicable; or ☐ Non-associate Degree Applicable

B. Moorpark College General Education:

1. Do you recommend this course for inclusion on the Associate Degree General Education list?

Yes: ☐ No: ☒ If YES, what section(s)?

- ☐ A1 - Natural Sciences - Biological Science
☐ A2 - Natural Sciences - Physical Science
☐ B1 - Social and Behavioral Sciences - American History/Institutions
☐ B2 - Social and Behavioral Sciences - Other Social Behavioral Science
☐ C1 - Humanities - Fine or Performing Arts
☐ C2 - Humanities - Other Humanities
☐ D1 - Language and Rationality - English Composition
☐

- ☐ D2 - Language and Rationality - Communication and Analytical Thinking
- ☐ E1 - Health/Physical Education
- ☐ E2 - PE or Dance
- ☐ F - Ethnic/Gender Studies

C. California State University(CSU) Articulation:

1. Do you recommend this course for transfer credit to CSU? Yes: ☒ No: ☐
2. If YES do you recommend this course for inclusion on the CSU General Education list?
Yes: ☐ No: ☒ If YES, which area(s)?
- | | | | | | | |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|
| A1 <input type="checkbox"/> | A2 <input type="checkbox"/> | A3 <input type="checkbox"/> | B1 <input type="checkbox"/> | B2 <input type="checkbox"/> | B3 <input type="checkbox"/> | B4 <input type="checkbox"/> |
| C1 <input type="checkbox"/> | C2 <input type="checkbox"/> | D1 <input type="checkbox"/> | D2 <input type="checkbox"/> | D3 <input type="checkbox"/> | D4 <input type="checkbox"/> | D5 <input type="checkbox"/> |
| D6 <input type="checkbox"/> | D7 <input type="checkbox"/> | D8 <input type="checkbox"/> | D9 <input type="checkbox"/> | D10 <input type="checkbox"/> | E <input type="checkbox"/> | |

D. University of California (UC) Articulation:

1. Do you recommend this course for transfer to the UC? Yes: ☐ No: ☒
2. If YES do you recommend this course for the Intersegmental General Education Transfer Curriculum (IGETC)? Yes: ☐ No: ☒

IGETC Area 1: English Communication

- ☐ English Composition
- ☐ Critical Thinking-English Composition
- ☐ Oral Communication

IGETC Area 2: Mathematical Concepts and Quantitative Reasoning

- ☐ Mathematical Concepts

IGETC Area 3: Arts and Humanities

- ☐ Arts
- ☐ Humanities

IGETC Area 4: Social and Behavioral Sciences

- ☐ Anthropology and Archaeology
- ☐ Economics
- ☐ Ethnic Studies
- ☐ Gender Studies
- ☐ Geography
- ☐ History
- ☐ Interdisciplinary, Social & Behavioral Sciences

- ☐ Political Science, Government & Legal Institutions
- ☐ Psychology
- ☐ Sociology & Criminology

IGETC Area 5: Physical and Biological Sciences (mark all that apply)

- ☐ Physical Science Lab or Physical Science Lab only (non-sequence)
- ☐ Physical Science Lecture only (non-sequence)
- ☐ Biological Science
- ☐ Physical Science Courses
- ☐ Physical Science Lab or Biological Science Lab Only (non-sequence)
- ☐ Biological Science Courses
- ☐ Biological Science Lab course
- ☐ First Science course in a Special sequence
- ☐ Second Science course in a Special Sequence
- ☐ Laboratory Activity
- ☐ Physical Sciences

IGETC Area 6: Language other than English

- ☐ Languages other than English (UC Requirement Only)
- ☐ U.S. History, Constitution, and American Ideals (CSU Requirement ONLY)
- ☐ U.S. History, Constitution, and American Ideals (CSU Requirement ONLY)

XII. REVIEW OF LIBRARY RESOURCES

- A. What planned assignment(s) will require library resources and use?

The following assignments require library resources:

Research projects using the Library's print and online resources.

- B. Are the currently held library resources sufficient to support the course assignment?

YES: ☒ NO: ☐

If NO, please list additional library resources needed to support this course.

XIII. PREREQUISITE AND/OR COREQUISITE JUSTIFICATION

Requisite Justification for Completion of one course in Computer Science and instructor approval.

- ☐ A. Sequential course within a discipline.
- ☐ B. Standard Prerequisite or Corequisite required by universities.
- ☒ C. Corequisite is linked to companion lecture course.

- ☐ D. Prerequisite or Corequisite is authorized by legal statute or regulation.
Code Section: _____
- ☐ E. Prerequisite or Corequisite is necessary to protect the students' health and safety.
- ☐ F. Computation or communication skill is needed.
- ☐ G. Performance courses: Audition, portfolio, tryouts, etc. needed.

XIV. WORKPLACE PREPARATION

CS M122: Not Applicable

XV. DISTANCE LEARNING COURSE OUTLINE ADDENDUM

CS M122: Not Applicable

XVI. GENERAL EDUCATION COURSE OUTLINE ADDENDUM

CS M122: Not Applicable

XVII. STUDENT MATERIALS FEE ADDENDUM

CS M122: Not Applicable

XVIII. REPEATABILITY JUSTIFICATION TITLE 5, SECTION 55041

CS M122: Not Applicable

XIX. CURRICULUM APPROVAL

Course Information:

Discipline: COMPUTER SCIENCE (CS)

Discipline Code and Number: CS M122

Course Revision Category: Outline Update

Course Proposed By:

Originating Faculty Esmaail Nikjeh 03/13/2017

Faculty Peer: _____

Curriculum Rep: Scarlet Relle 10/15/2017

Department Chair: _____

Division Dean: Mary Rees 03/13/2017

Approved By:

Curriculum Chair: Jerry Mansfield 11/10/2017

Executive Vice President: _____

Articulation Officer: Letrisha Mai 10/19/2017

Librarian: _____

Implementation Term and Year: _____

Approval Dates:

Approved by Moorpark College Curriculum Committee: 11/07/2017

Approved by Board of Trustees (if applicable): _____

Approved by State (if applicable): 01/29/2018