



## Basic Course Information

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|---------------------|--|---------------------|---------------------------------------|
| Semester:           | <b>Spring 2024</b>                                       | Instructor Name:    | <b>Melody Chronister</b>              |
| Course # and Title: | <b>CIS 202: Programming Concepts &amp; Methodologies</b> | Email:              | <b>melody.chronister@imperial.edu</b> |
| CRN #:              | <b>20423</b>   | Webpage (optional): | <b>Canvas</b>                         |
| Classroom:          | <b>online - asynchronous</b>                             | Office #:           | <b>903c</b>                           |
| Class Dates:        | <b>February 12 to June 7</b>                             | Office Hours:       | <b>By appointment only</b>            |
| Class Days:         | <b>N/A-asynchronous</b>                                  | Office Phone #:     | <b>(760) 550-0227 -text preferred</b> |
| Class Times:        | <b>N/A-asynchronous</b>                                  | Emergency Contact:  | <b>Business Department Secretary</b>  |
| Units:              | <b>3</b>   | Class Format:       | <b>Online asynchronous</b>            |

## Course Description

An introduction to the fundamental concepts and models of application development including the basic concepts of program design, data structures, programming, problem-solving, programming logic, and fundamental design techniques for event-driven programs. Hands-on experience with a modern application programming language and development platform. (CSU/UC)

## Course Prerequisite(s) and/or Corequisite(s)

None

## Student Learning Outcomes

Upon course completion, the successful student will be able to: 1) Design and create a program that incorporates good design principles and meets specifications using the sequence control structure. 2) Design and create a program that incorporates good design principles and meets specifications using the decision/branching control structure. 3) Design and create a program that incorporates good design principles and meets specifications using the loop/iteration control structure.

## Course Objectives

Upon satisfactory completion of the course, students will be able to:

1. Use primitive data types and data structures offered by the development environment.
2. Choose an appropriate data structure for modeling a simple problem.
3. Identify basic programming concepts.
4. Write simple applications that relate to a specific domain.
5. Design, implement, test, and debug a program that uses each of the following fundamental programming constructs: basic computation, simple I/O, standard conditional and iterative structures, and the definition of functions.
6. Test applications with sample data.
7. Apply core program control structures.



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## Textbooks & Other Resources or Links

We will be using Open Education Resources, which are free textbooks, throughout this course.  
<https://asccc-oenr.org/open-educational-resources-and-computer-science/>

## Course Requirements and Instructional Methods

This course will consist of a combination of lectures, assigned textbook activity, and performance on homework and quizzes. There will be two projects assigned during the course as part of the homework.

**Lab Assignments:** Every week there will be lab assignments that correspond to the unit covered during the lecture.

**Homework:** There will be an activity and questions from the end of each unit assignment

There will be 2 projects during the semester, which will demonstrate that you've gained the required knowledge to meet the Student Learning Outcomes for the course. The final project is your final exam.

**Reading and Watching:** You will be expected to read/watch content each week from the assigned reading or video material.

**Exams:** There will be a quiz given each week, except the midterm and final week, to confirm you understand the material. Quizzes will be multiple choice and computer output. All tests will be administered using Canvas.

## Course Grading Based on Course Objectives

You may earn up to 1000 points, as follows:

Discussion/Participation: 140 (14 @ 10)

Midterm Project: 100 (1 @100)

Assignments: 360 (12 @ 30)

Quizzes/Concept Review 280 (14 @ 20)

Final Project 120 (1 @ 120)

Grading Scale:

A 900-1000 points

B 800-899 points

C 700-799 points

D 600-699 points

F 599 points and below

To receive full credit, all work must be turned in on time. If you have an emergency that prevents you from participating in class, it is your responsibility to make acceptable arrangements before the absence. Class attendance and tardy policy follow the regulations in the IVC college catalog. Your attendance in class is important.

## Academic Honesty (Artificial Intelligence-AI)

IVC values critical thinking and communication skills and considers academic integrity essential to learning. Using AI tools as a replacement for your own thinking, writing, or quantitative reasoning goes against both our mission and academic honesty policy and will be considered academic dishonesty, or plagiarism unless you have been instructed to do so by your instructor. In case of any uncertainty regarding the ethical use of AI tools, students are encouraged to reach out to their instructors for clarification.

## Course Policies

Refer to the college catalog for attendance and academic honesty policies.

## IVC Student Resources

IVC wants you to be successful in all aspects of your education. For help, resources, services, and an explanation of policies, visit <http://www.imperial.edu/studentresources> or click the heart icon in Canvas.

### Anticipated Class Schedule/Calendar

| Week | 20684, 20971: In Person<br>(Online sections follow asynchronous instructions in Canvas)                             | Due Dates: ALL CLASS SECTIONS, except as noted                            |
|------|---|---|
| 1    | M: Introductions – Me, You, The Class, Accounting (Chapter 1)<br>W: Chapter 1 continued, Introduction to CengageNOW |   |
| 2    | M: Holiday, No Class<br>W: <b>Chapter 1 Quiz</b> , Analyzing Transactions (Chapter 2)                               | Chapter 1 homework/Discussion: February 20<br>Chapter 1 Quiz: February 21 |
| 3    | M: Chapter 2 continued<br>W: The Double-Entry Framework (Chapter 3)   | Chapter 2 homework/Discussion: February 27                                |
| 4    | M: Chapter 3 continued<br>W: Review   | Chapter 3 homework/Discussion: March 5                                    |
| 5    | M: <b>Chapters 2 and 3 Exam</b><br>W: Journalizing and Posting Transactions (Chapter 4)                             | Chapters 2 and 3 Exam/Discussion: March 11                                |
| 6    | M: Chapter 4 continued (Review homework instructions)<br>W: Adjusting Entries and the Worksheet (Chapter 5)         | Chapter 4 homework/Discussion: March 19                                   |
| 7    | M: Continue Chapter 5<br>W: More depreciation   | Chapter 5 homework/Discussion: March 26                                   |
| 8    | M: Comprehensive problem  | Chapter 5 Appendix homework: April 7                                      |



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|    | <b>W: Turn in Comprehensive Problem, Parts 1 through 6, Review</b>                             | Comprehensive Problem, Parts 1 through 6/Discussion: April 9                                 |
| 9  | <b>M: Chapters 4 and 5 Exam</b><br>W: Financial Statements and the Closing Process (Chapter 6) | Chapters 4 and 5 Exam/Discussion: April 15   |
| 10 | M: Chapter 6 continued<br>W: Accounting for Cash (Chapter 7)                                   | Chapter 6 homework/Discussion: April 23  |
| 11 | M: Chapter 7 continued<br>W: Complete Comprehensive Problem                                    | Chapter 7 homework/Discussion: April 30  |
| 12 | <b>M: Turn in Comprehensive Problem, all, Review</b><br><b>W: Chapters 6 and 7 Exam</b>        | Comprehensive Problem, all/Discussion: May 5<br>Chapters 6 and 7 Exam/Discussion: May 8      |
| 13 | M/W: Payroll (employee) (Chapter 8)  |  |
| 14 | M/W: Payroll (employer) (Chapter 9)  | Chapter 8 homework/Discussion: May 19  |
| 15 | M: Holiday, no class<br><b>W: Cushion/TBD</b>  |  |
| 16 | M: Review<br><b>W: Chapters 8 and 9 Exam</b>   | Chapter 9 homework/Discussion: June 2<br>Chapters 8 and 9 Exam/Evaluation/Discussion: June 5 |

**\*\*\*All subject to change without prior notice\*\*\***