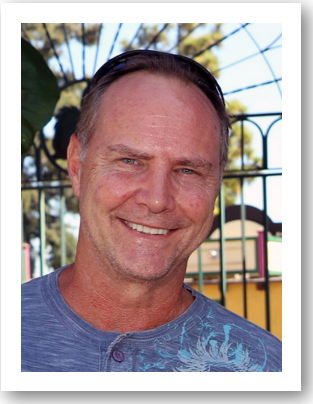
Syllabus

Instructor Information



(https://msjc.instructure.com/users/890/files/2481624/download?wrap=1&verifier=xUUlyiVda7qw1ZYrEC6tCmJKo29wQJeNzWVpec4U)

Instructor: Bill Bennett

Education: B.S. CTE, CSUSB M.S. CTE, CSUSB (http://cis.msjc.edu/evoc) ; M.S. IDT, CSUF (http://MSIDT.COM)

Certifications: MCP, MCSE, MCT, CCNA, CIW

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Web Site: http://cis.msjc.edu/instructors/Bill_Bennett (http://cis.msjc.edu/instructors/Bill_Bennett)

Course Description

This course will introduce students with no prior programming experience to the fundamentals of computer programming. These are foundation concepts for nearly all modern programming languages including Visual Basic, C++, C#, Java, JavaScript, and Python. Topics include sequence- repetition- and selection control structures. Advance topics include arrays- file I/O- and an introduction to the principles of object-oriented programming. One or more high-level programming languages will be used to reinforce the general concepts presented in this course.

Course Learning Objectives

Upon completion of the course, the student will be able to do the following:

- Describe and apply the steps in the program development cycle.
- Demonstrate mastery of program notation concepts through construction of simple algorithms, flowcharts, and corresponding pseudo-code.

- Contrast and compare high-level programming languages as to suitability to a task.
- Demonstrate the proper use of programming syntax that includes the effective and appropriate use of variables, expressions, and functions.
- Apply appropriate Sequential, Repetition, and Selection control structures to solve specific programming problems.
- Demonstrate the role of arrays and File I/O through a language specific application of these techniques.

Student Learning Outcomes

- Develop a program that correctly implements the for, while, and do while looping structure
- Code and implement the if, if else, conditional, and switch decision constructs.
- Develop algorithms that implement arrays for storage and data retrieval.
- Demonstrate the use of functions for modular programming.
- Code a complex (operations do not share the same level of precedence) algebraic expression in the target language.

Course Text Book

There is no text book requirement for this course. All content is provided through the Canvas course shell.

Reading and Assignment Due Dates

Weekly Schedule

Week		Reading	Assignment	Due Date
			Student Check-In	Oct. 18
1	Oct. 17	**Prep Unit** **Lesson 0:** Course Setup	Human Scavenger Hunt Student Check-In Quiz Assignment 0 Discussion	
		Lesson 1 - Stored Program Concept: History of Programming, Compilers and Interpreters, High-Level vs. Low-level Languages, Procedural vs. Object-oriented Programming	Journal 1 Assignment 1: Programming Language Discussion Quiz 1	Oct. 23
2	Oct. 24	**Lesson 2 - Structured Design Concepts**: System Development Life Cycle, Software Testing	Journal 2 Assignment 2: SDLC Discussion Quiz 2	Oct. 30

Week		Reading	Assignment	Due Date
3	Oct. 31	**Lesson 3 - Anatomy of a Computer Program**: Algorithms, Flowcharting, pseudo-code, decision tables **Lesson 4 - Integrated Development Environments (IDEs)**: Visual Studio, writing your first program "Hello World" **Lesson 5 - Simple Data Types, Operators, and Expressions**: Constants, Variables, Data Type, Arithmetic, Boolean, and Relational Operators	Journal 3 Assignment 3: Algorithm Discussion Quiz 3 Journal 4 Assignment 4: Hello world! Quiz 4 Journal 5 Assignment 5: Hello <input> <input> Quiz 5	Nov. 6
4	Nov. 7	**Lesson 6 - Data Structures**: Arrays, Queues, Stacks, Linked Lists **Midterm Assessments**	Journal 6 Assignment 6: Using Data Structures Discussion Quiz 6 Midterm Assignment Midterm Exam	Nov. 13
5	Nov. 14	**Lesson 7 - Sorting Algorithms:** Bubble Sort, Quick Sort **Lesson 8 - Control Structures:** Repetition Structures	Journal 7 Assignment 7: Sorting Algorithm Discussion Quiz 7 Journal 8 Assignment 8: Using Repetition Structures Quiz 8	Nov. 20
6	Nov. 21	**Lesson 9 - Control Structures (cont.):** Decision Structures	Journal 9 Assignment 9: Using Decision Structures Quiz 9	Nov. 27

Week		Reading	Assignment	Due Date
		Lesson 10 - Modular Programming: User-defined functions, methods, and procedures	Journal 10 Assignment 10: Using Methods Quiz 10	
7	Nov. 28	**Lesson 11 - File I/O:** Reading and Writing Files	Journal 11 Assignment 11: Using Methods & File I/O Quiz 11	Dec. 4
		Lesson 12- Exception Handling: Try, Catch, Finally Blocks	Journal 12 Assignment 12: Exception Handling Quiz 12	
8	Dec. 5	**Final Assessments**	Final Assignment Final Exam	Dec. 9

Course Grading

Each assignment that you need to complete in this class will display the total number of points you can earn for the assignment. Each assignment also has a scoring rubric which you can view to assist you on meeting the requirements of the assignment and achieving the highest score possible.

There are 3,466 total points possible to be earned in this class. Your final grade in the class will be determined by the total number of points you have earned in the class divided by the total points possible. The resulting percentage will be a letter grade based on the following grading scale.

Grading Scale: A > 89%, **B** > 79%, **C** > 69%, **D** > 59%, **F** < 59%.

Late Assignments

All assignments must be completed by **11:59 P.M.** on the due date listed for the assignment under the **Due Date** column in the **Course Schedule** section of the Syllabus. NO LATE ASSIGNMENTS WILL BE ACCEPTED without extenuating circumstances. “I had to work,” “I was sick,” or “I didn’t understand the instructions” are ***NOT*** extenuating circumstances. Hospitalization or death of an immediate family member are, but will require supporting evidence. This does not exempt you from completing any assignment which MUST be submitted by the last day of the class.

Note: ***Due Dates*** for all ***Assignments***, ***Exams*** and/or ***Quizzes*** are listed in the Syllabus for this class.

Student Drop Policy

Any student who fails to complete three or more assignments, exams or quizzes may be dropped from the course by the instructor.

Instructor's Regular Effective Contact Policy

For quickest response to questions or problems regarding this course, students should always send me an email using the format specified in the *CIS Email Policy (http://cis.msjc.edu/generalInformation/emailPolicy)* to the email address listed in the instructor box at the top of the Syllabus.

When emailing me during my stated online office hours, which can be found by clicking on the "Hours" link within the Instructor's box of this course, I will usually respond within the same day - depending on my student case load for that particular day. Students are always responded to on a first come first served basis.

When emailing me outside of my posted office hours, when posting to a discussion thread, or when submitting an assignment, students can expect that they will receive an appropriate response, when required, within 48 hours of the post or submission (Monday thru Thursday at 5:00 P.M.). Emails received after Thursday at 5:00 P.M. will be responded to on the following Monday.

To schedule a face-to-face meeting during the posted face-to-face office hours or to request synchronous contact via: virtual office, by telephone, or IM (Instant Messaging); please email your request so that we can schedule a mutually convenient meeting time.

From time to time, as it is deemed necessary, contact will be initiated with you, individually or jointly, via: email, Canvas Announcements, or Discussion Board posts to help keep you informed and up-to-date regarding your progress or status in this course. Be sure that you read all Announcements I post on Canvas and check your MSJC email on a daily basis. Please click "Reply" when responding to an email I send you so that my email message is included in your email response. That way I can easily keep track of what our discussion thread pertains to.

Plagiarism, Cheating, and Stealing Policies (Academic Integrity)

- Any student who plagiarizes the work of any other person will be given a zero on any and all assignments where plagiarism has been utilized.
- Any student caught cheating on a quiz or final exam will receive a zero for quiz or final exam.

- Any student caught removing items from the classroom including but not limited to: lab materials and tools, without authorization, will be dropped from the course and given an automatic "F".

For more details on plagiarism and cheating, please review the MSJC Student Conduct Web Resources (http://www.msjc.edu/StudentServices/StudentConduct/Pages/Web-Resources.aspx) page.

Learning Environment

All students are entitled to an environment that encourages learning. If a student behaves in a manner that negatively affects other class members, he or she is guilty of disruptive behavior. Such behavior will be addressed in a manner consistent with school policy.

Need Tutoring?

Check out the MSJC Learning Resource Centers! Academic Support is available for all students through the services provided in the Learning Resource Centers (http://www.msjc.edu/LearningResourceCenter/Pages/default.aspx) on each campus. Inquire at each center regarding hours of operations and specific subjects for which tutors are available. In addition, some subject area specialist tutors are available for courses through specific departments. Ask your instructor if specialized tutors are available for your individual course.

Tutoring for some CIS classes including Microsoft Office applications tutoring will be available from Career Education Student Support at MVC. Lab/tutor schedules can be found at https://www.msjc.edu/careereducation/studentsupport/ (https://www.msjc.edu/careereducation/studentsupport/) . Tutors change each semester, please check with the Business/CIS computer lab to learn what subjects have available tutors for the current semester.

Disability Statement

Mt. San Jacinto College abides by the American with Disabilities Act and Section 504 of the Rehabilitation Act of 1973 that prohibits federal and state agencies or programs from discriminating against qualified individuals with disabilities. Students in this course who have a documented disability, that limits a major life activity which may have some impact on your work in this class and for which you may require accommodations should meet with a Disabled Student Program and Services (DSPS) (https://www.msjc.edu/asc/) (http://www.msjc.edu/DSPS/Pages/Contact-DSPS.aspx) counselor as soon as possible.

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