Course Syllabus

Jump to Today

St. Charles Community College
CPT-182-80-16/FA Beginning Programming in C++ Tina Claybon, PhD

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General Course Information

Course Description: An introduction to the concepts of the C/C++ programming language using a structured approach to programming. Students may use PCs with Microsoft Visual Studio C++ .Net in class or in a computer lab or any other ANSI C++ compiler if desired.

Credit Hours: 3

TEXT (required):	D.S. Malik
	C++ Programming: Program Design Including Data Structures, Seventh Edition
	Course Technology, Boston, MA; 2015

Time of Class: Fall 2016

Sec. 80	M	7:00 pm – 9:50 pm	Tech 214

Instructional Goals: This class will provide an environment where the College's goals for students in the areas of Critical Thinking, Writing Across the Curriculum, and Computer Literacy are practiced. These will be utilized in a variety of ways throughout the course.

Course Objectives:

- Describe the structured approach to computer programming and accurately design program logic.
- Create documentation for simple reports with mathematical calculations, headings, subtotals, conditional inclusion/exclusion and totals, as well as for more complex file creation, update, games, and maintenance programs.
- Write programs in the C++ programming language according to programming specifications and requirements, and document the design and processing steps of the program.

College Campus Services

Students with special needs: We all have various channels through which we learn best. The College has an Office of Accessibility Services that guides, counsels, and assists students with disabilities. It is located in Room 133 of the Student Center. It is your responsibility to discuss with the instructor during the first week of class anything needed to help you succeed. If you have special needs, please call Paige George (636-922-8247) in the Office of Accessibility Services so that your eligibility for services can be determined.

Mental Health/Counseling Service for Students: St. Charles Community College offers the opportunity to address your concerns with a FREE mental health counselor on campus. SCC has a well-trained professional to help with a wide range of concerns common to college students including anxiety, eating concerns, alcohol/drug issues, relationship concerns, academic stress, suicidal thoughts, sexual and LGBT concerns. Our mental health counselor will offer short-term counseling, community support and referrals. Please contact Teresa Drury at 636-922-8536 or tdrury@stchas.edu in the mental health office to set an appointment. The office is located in the Administration Building, room 1242. Sometime a student may require care beyond the scope of our counseling center and in these situations, students will be assisted with establishing care off campus.

Safety Consideration after Night Classes: It is highly recommended that students park in the same designated lot, to be agreed upon the first night class, and walk out together as a group when class is over. Although any students who wish to contact campus security to walk them to their car may do so.

Campus Closings: For up-to-date information on closings due to inclement weather or other emergencies, call 636-922-8000, log on to **www.stchas.edu** **(http://www.stchas.edu/)** , *Twitter,* receive a text (if you signed up), or **http://www.facebook.com/stchas**   **(http://www.facebook.com/stchas)** .

What the teacher expects from each student

Attendance Policy: You should attend all class meetings for classes in which you are enrolled.

The college has no plan of recognized class 'cuts' or absences. You should attend all class meetings in which you are enrolled. Excessive absence may be sufficient cause to fail the course. For distance classes, "attendance" will be defined as active participation in the course as described in the individual course syllabus. The final decision as to what constitutes excessive absence from a class is left to the instructor and will be outlined in the course syllabus. Students should discuss any absences with their instructor.

Class Absence Policy: The fact that ***most all*** of this course is hands-on makes attendance at class even more important. If absence is unavoidable, the student is expected to have the textbook material read and any homework assignments completed before returning to the next scheduled class. Failure to do this will cause the inability to keep up with the class material being discussed.

DO NOT call or e-mail me to find out what we covered in a class that you missed. This information should be obtained from the course timetable, Canvas, and/or a classmate.

Course Requirements

- Read the text as assigned before the class time table (at end of syllabus)
- All work must be completed and turned in on time, and should be accomplished by the student. It is understood that students may need assistance at times but assignments completed by someone other than the student should not be turned in as their work.
- Assignments will be posted on Canvas.
- Attend lectures and participate in class discussion.
- Students must come equipped with class and lab materials, i.e., text, paper, pen, flash drive if needed. Note that a flash drive is recommended to transport your code between PCs.
- Students should plan on allowing time for completion of homework assignments, extra credit assignments, and the two projects. Lab time is available during posted lab hours.

What the student can expect from the teacher

Office Hours: (On scheduled class days) 6:15 to 6:45 p.m. in Tech 105 or 214.

Graded Papers and Exams: Graded papers and exams will be returned to students as soon as is reasonably practical. Normally this will be within one week, but could be longer in unusual circumstances.

Grading:

Grading Scale		Activity Weight	
A	93–100	Chapter Project Assignments	30%
B	85–92	Chapter Quizzes	15%
C	75–84	Attendance	15%

D	65-74	Midterm Exam	20%
F	below 65%	Final Exam	20%

Chapter Project Assignments: For each chapter, there will be one (or more) hands-on projects associated with the chapter being discussed. These assignments cannot be made up. The lowest grade in this category will be thrown out, so missing ones will not directly affect your grade.

Late Assignments: Any assignments handed in late will be graded as normal and then a 15% **late penalty** will be deducted. This means if you score a 90 on an assignment that is late an additional 15% or 13.5 points will be deducted giving you a 76.5 grade for the assignment.

Quizzes/Exams: All chapter exams will be completed in Canvas, outside of the classroom. It is the student's responsibility to take each test by the designated dates.

Waiting until the last hour to take a test, then having problems with your computer, the Internet, Canvas, or anything else, is not acceptable. Do not wait until the last possible hour to take each test—plan ahead. Mid-Term will cover Chapters 1-6 consisting of 50 multiple choice questions. The Final Exam will be split into two parts: Part A, Chapters 1-7; and Part B, Chapters 8-14. There will be a total of 100 questions, approximately 50 questions in each part. Many students are able to take both parts of the test in one class session.

As a faculty member, I am deeply invested in the well-being of each student I teach. I am here to assist you with your work in this course. If you come to me with other non-course-related concerns, I will do my best to help. It is important for you to know that all faculty members are mandated reporters of any incidents of sexual misconduct. That means that I cannot keep information about sexual misconduct, stalking, relationship violence, or sexual harassment confidential if you share that information with me. SCC's Title IX Coordinator, Sylvia Edgar, can advise you confidentially as can SCC's Licensed Therapist. Sylvia can also help you access other resources on campus and in the local community. You can reach Sylvia at x8654 or sedgar@stchas.edu, and her office is in ADM 1242. SCC's Licensed Therapist can be reached at x8571.

SCC's Prohibition of Discrimination, Harassment, Sexual Harassment and Violence Board Policy is available on-line at **www.stchas.edu/titleix (http://www.stchas.edu/titleix)** ; this includes policies, definitions, procedures and resources

Withdrawal dates and related policies dates:

Last day to change from credit to audit or audit to credit	**Sept. 16**
Last day to drop and receive a "W"	**Oct. 28**
Priority deadline for December 2016 Graduation	**Sept. 23**
Priority deadline for August 2017 Graduation	**June 2**

Tentative Timeline - Fall 2016

Class Times: Monday's 7:00 - 9:50	Chapter Readings	Topics	Quiz/Chap Projects Assignments Due
Aug. 22 (Week 1)	1	An Overview of Computers and Programming Languages	
Aug. 29 (Week 2)	2	Basic Elements of C++	

Date	Week	Topic	Assignment
Sept. 5		*Labor Day*	
Sept. 12 (Week 3)	3	*Input/Out*	*Open Book Quiz Chapters 1-2*
Sept. 19 (Week 4)	*4*	Control Structures 1 (Selection)	
Sept. 26 (Week 5)	*5*	Control Structures II (Repetition)	
Oct. 3 (Week 6)		Chapters 1-5	Mid-Term Exam
Oct. 10-11 (Week 7)		Fall Break	
Oct. 17 (Week 8)	*6a*	User-Defined Functions	Open Book Quiz Chapters 3 - 5
Oct. 24 (Week 9)	*6b*	User-Defined Functions	
Oct. 31 (Week 10)	*7*	User-Defined Simple Data Types, Namespaces, and the String Type	
Nov. 7 (Week 11)	*8*	Arrays & Strings	Open Book Quiz Chapters 5 - 7
Nov. 14 (Week 12)	*9*	Records	
Nov. 21 (Week 13)	*10a*	Classes and Data Abstraction	Open Book Quiz Chapters 8-10

Wednesday Nov. 24 – Sunday Nov 27		*No Classes Happy Thanksgiving*	
Nov. 28 *(Week 14)*	10b	*Classes & Data Abstraction*	
Dec. 5		*Final Exam (Don't be too nervous) Our Final will be on December 5th during class.* *Exam Chapters 6 thru 10.*	

Assignments Summary:

Date	Details	
Mon Aug 29, 2016	**Chapter 1 Assignments** (https://stchas.instructure.com/courses/9579/assignments/132063)	due by 11:59pm
	Roll Call Attendance (https://stchas.instructure.com/courses/9579/assignments/132073)	