

Course Syllabus of CSE 100 Online

Course Number:

- CSE 100: Principles of Programming with C++

Credits:

- 3

Prerequisites

- None

Textbook

- In this course, you need to use Pearson eText. Go to "Pearson eText and Video Notes".
You can purchase the eTextbook from the course Blackboard page. Please wait till the blackboard page is available.
- The title of the textbook is "Starting Out with C++ from Control Structures to Objects", Tony Gaddis, 8th Edition, **ISBN-10:** 0133769399 or **ISBN-13:** 978-0133769395
- The first time to visit Pearson's eText page through the course blackboard page, you will purchase the eText.
- **NO MyProgrammingLab in this course.**

Proctor for Exams

- There are three exams in this course, Midterm 1, Midterm 2 and Final Exam.
- All exams are required to be proctored by RPNOW (Remote Proctor Now)
- The instruction of using RPNOW to take the exams is in the blackboard page.
- You cannot take the exams without RPNOW.

Faculty

Instructor

Name: Kazuaki Kashiara

Email address: kkashiha@asu.edu

Office: 569AC, Brickyard

Online Virtual Office: We use Google Hang Out to have Online Virtual Office Hour in this course. You need to have Google+ account with ASU email address (end with @asu.edu))

Office hours: Monday to Friday, noon to 1 pm in Arizona time. Or make appointment through email.

TAs: Check the course page once it is available.

Catalog Description

Principles of problem solving using C++, algorithm design, structured programming, fundamental algorithms and techniques, and computer systems concepts. Social and ethical responsibility. Lecture, lab.

Course Overview

This course has been designed to give a solid understanding of programming and C++ language for a beginning programmer. Upon successful completion of this course, you will be equipped with; problem analysis and algorithm design techniques, structured and object oriented programming concepts, and a good understanding of the C++ programming language

Note: This course is an **introductory course** to programming using C++. **No previous background in programming is required.** Only a basic knowledge of using computers - directory structure; copy, move, and rename files and folders are expected. However, dedication and hard work is required to succeed in this course.

At least you need to know how to install some software in your computer.

Learning Outcomes

At the completion of this course, students will be able to:

Type, compile and execute a given C++ program using visual studio 2015 Express for Windows Desktop. If you use Mac, you need to use Xcode.

- Search "Visual Studio 2015 Express For Windows Desktop" on Google or Yahoo! search and download the install software from Visual Studio's official website. (When you install Visual Studio 2015 Express for Windows Desktop, you need to select Visual C++ to install)
- Write a simple C++ program that uses data variables
- Compile a C++ program uses data variables and correct syntax errors
- Write a simple C++ programs that uses decision making C++ constructs
- Trace a given C++ program that uses decision making statements and determine the output
- Write a simple C++ programs that uses looping (and decision making) C++ constructs
- Trace a given C++ program that uses looping and decision making statements and determine the output
- Write C++ programs that uses functions
 - create a function which uses pass-by-reference
 - create a function which uses pass-by-value
 - create a value returning function
- Write C++ programs that uses objects and methods
 - describe the difference between a class and an object (instance) of the class
 - design and implement a simple class from pre-defined data types

- create a program which requires the use of one of more simple classes
- write and use one-dimensional and two-dimensional arrays in C++ programs

Grade Group

(Upload it soon)

If you have some question about your grade, please contact to your group's grader.

Grade

The final grade percentage = $100 * (\text{Your total score (Max 495)} + \text{Bonus points(Max 35)}) / 495$.

Ex. A student's total score is 460/495 and the student have 25/35 total bonus points, then the final grade percentage = $100 * (460+25)/495 = 100 * 485/495 = 97.98 \%$

If the percentage is over 100%, the system adjusts the percentage to 100%.

Tasks	Details	Points
Quiz	Quiz 1	10
	Quiz 2	10
	WK3 Lecture Review Quiz 1	7
	WK3 Lecture Review Quiz 2	5
	WK3 Lecture Review Quiz 3	4
	WK5 Lecture Review Quiz 1	6
	WK5 Lecture Review Quiz 2	6
Assignment	Lecture Review Programming Assignment	10

Homework	Homework 1	20
	Homework 2	20
	Homework 3	20
	Homework 4	20
	Homework 5	20
	Homework 6	20
Lab	Lab 0	5
	Lab 1	5
	Lab 2	5
	Lab 3	5
	Lab 4	5
	Lab 5	5
	Lab 6	5
	Lab 7	5
Exam	Midterm 1	77
	Midterm 2	100
	Final	100
Bonus	Extra credit Program Set 1	(10)
	Extra credit in Final Week	(20)
	Course Survey	(5)
Total		495

Grade Breakdown

Grade	Percentage
A+	$\geq 97\%$
A	$\geq 90\%$ and $< 97\%$
B+	$\geq 87\%$ and $< 90\%$
B	$\geq 80\%$ and $< 87\%$
C+	$\geq 77\%$ and $< 80\%$
C	$\geq 70\%$ and $< 77\%$
D	$\geq 60\%$ and $< 70\%$
E	$< 60\%$

Missed quizzes/Assignments/Exams:

If you need to miss a quiz/test/assignment, you must have a legitimate university approved excuse, such as a severe injury, illness or participation in a legal proceeding that require your presence, etc. You must contact the instructor and provide satisfactory evidence *prior or within two days after the absence*.

A missed quiz/test/assignment without permission or supporting documents is a zero.

***Exams and quizzes are not able to re-open after the due day.**

Academic Integrity:

If you violate the [academic integrity](#), it will cause you that the assignments or exam will be 0 point and we report to the Dean in the first time.

It will cause you to Fail this course and we report to the Dean in the second time.

Especially taking exam, DO NOT violate any exam rules. No eText, reference webpages and software in

the exam.

If you violate these exam rules, we consider that you cheated in the exam and you violate the ASU Academic Integrity Policy.

For Mac users

- Visual Studio 2012/2013/2015 does not work on Mac. You **NEED** to install **Xcode** through App Store (it is free)