

**Syllabus**

Click on the syllabus below to review your assignments for CSCE 1336-160.

- <https://info.tamtu.edu/courseslist.aspx>

**Course Assignments**

Review the important assignments in this course below.

Important Assignments:
Assignment Name:
Quiz 1
Assignment 1
Quiz 2
Assignment 2
Midterm Exam
Assignment 3
Quiz 3
Assignment 4
Project
Final Exam

**Assignment Tasks**

Follow these to complete your course assignments. Each assignment is broken down into manageable tasks. Take note of the recommended time spent to complete each task on time.

- **Programming Assignment 1 – Programming Basics**
  - In programming assignments, there is usually a broad prompt, and it is up to the programmer to design an algorithm to solve the problem at hand; there is no one solution. This is true for most programming assignments.



- For this first assignment, the student should be comfortable with the syntax of the C++ programming language. The syntax refers to how you should type the language to avoid compile errors, like adding a semi-colon at the end of every line. *This should be reviewed during the lecture and should take no additional study hours.*
- Additionally, you should know the types of errors in C++: syntax, logical, and runtime errors.
- The student should know what a variable is, what they are used for, and what data types for variables there are (int, double, char, etc).
- Finally, this first assignment requires you to know how to output information to the terminal using *cout* and input data to the program using *cin*.
- The assignment will be a mixture of questions with spaces to write an answer and also small coding challenges. Using the four topics above, the assignment can be completed.
- **Programming Assignment 2 – Flow Control**
  - For this assignment, you need to review flow control (also known as decision making) and Boolean expressions.
  - Decision making statements refer to if-statements, else-statements, else if-statements, and switches.
  - Boolean expressions refer to expressions or conditions that can only be evaluated as true or false. These expressions go hand-in-hand with if-statements as these statements will only run if the expression associated with them is true (e.g. “if ( 3 < 10)” has a true condition, since 3 is less than 10, so the code will run).
- **Programming Assignment 3 – Loops and Functions**
  - For this assignment, you will need to review loops and functions (pre-defined and programmer-defined functions).
  - Looping in C++: Review while, for, and do-while loops for this assignment. More than anything, make sure that your loops are not infinite, have a purpose, iterate correctly, and run the correct number of times you want them to.
  - You might also be asked to create a function to streamline a process in your code. Creating a function relies on the programmer’s ability to solve a problem: identify what the problem is, create a solution, and implement your algorithm into code.
- **Programming Assignment 4 – Files and Debugging**
  - For this assignment, you will need to review file manipulation, I/O streams from files, and apply common debugging techniques in case of need.
  - To use files in C++, remember to use the *<fstream>* library to read from files and write to files. Please note that you can also use *<ifstream>* or *<ofstream>* if you are just inputting or outputting to files, respectively.
- **Project**
  - This project will be based on the knowledge you have acquired throughout the semester and be assigned by your professor.

- **Quiz 1**
  - Quiz 1 will be centered around the basics of programming: what is programming, what is machine language, the difference between source code and object code, the five parts of the computer, the process a compiler does, etc. Also, what are the types of errors than can happen while writing code and compiling a program.
- **Quiz 2**
  - Quiz 2 will be centered on knowing what a variable is, assignment operators, input and output. Additionally, data types in C++, simple flow of control like if statements and switches, and program styling practices.
- **Quiz 3**
  - Quiz 3 will be centered around Boolean expressions (true and false), branching statements like else-if statements or nested if statements, and looping and the three types of loops that C++ offers. Additionally, the quiz will look into functions, abstraction, and global and local variables.

**Task Scheduler**

Use this section to schedule when and how you will complete your assignment tasks. Include what the outcome of the task was. You should not move on to the next task until the previous task is completed. Stick to your schedule.

Review the example below and then create your own task schedule.

Task: \_\_\_ Complete research for final paper \_\_\_\_\_

Time Needed	Step	Outcome
<i>2 hours</i>	<i>Search for articles on TAMIU Library website.</i>	<i>Spent 1.5 hours researching; found 10 articles that could be used.</i>
<i>1 hour</i>	<i>Make a list of which will be used for research paper.</i>	<i>Chose 5 articles for paper.</i>

Task: \_\_\_\_\_

Time Needed	Step	Outcome



**Disclaimer:** Please use this document as a supplemental resource. You must follow class instructions and expectations set by your professor. This handout does not substitute your class nor does it cover the entire syllabus or course.