



# Cosc 1336: Programming Fundamentals I

## Course Syllabus: Spring 2019

"Northeast Texas Community College exists to provide responsible, exemplary learning opportunities."

**Will McWhorter, Ph.D.**

**Office:** Math / Science 114

**Phone:** 903-434-8223

**Email:** wmcwhorter@ntcc.edu

Office Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Online
	9:00 - 9:30 12:00 - 1:30 3:30 - 4:00	9:00 - 9:30 3:30 - 4:00	9:00 - 9:30 12:00 - 1:30 3:30 - 4:00	9:00 - 9:30 12:00 - 1:30 3:30 - 4:00	None	By Appointment

*The information contained in this syllabus is subject to change without notice. Students are expected to be aware of any additional course policies presented by the instructor during the course.*

### **Catalog Course Description (include prerequisites):**

Emphasis on the fundamentals of structured design, development, testing, implementation, and documentation. Includes coverage of language syntax, data and file structures, input/output devices, and disks/files.

### **Required Textbook(s):**

Author: Malik, D.S.

Title: C++ Programming: Program Design Including Data Structures, 8<sup>th</sup> edition

**Publisher:** Course Technology / Cengage

**ISBN Number:**

ISBN-13: 978-1337117562

ISBN-10: 1337117560

### **Recommended Reading(s):**

C++ Tutorials and YouTube Videos

### **Student Learning Outcomes:**

1. Students will demonstrate an understanding of how to construct appropriate comments inside a C++ program.
2. Students will demonstrate an understanding of how to declare valid identifiers using appropriate data types in a C++ program.
3. Students will demonstrate an understanding of how to input and output data in a C++ program.
4. Students will demonstrate an understanding of how to evaluate and construct selection structures using C++.
5. Students will demonstrate an understanding of how to evaluate and construct repetition structures using C++.

6. Students will demonstrate an understanding of how to construct programs consisting of multiple functions.
7. Students will demonstrate an understanding of the concepts of scope and lifetime of variables.
8. Students will demonstrate an understanding of how and when to use value and reference parameters with functions.
9. Students will demonstrate an understanding of how to effectively use one dimensional arrays.

**Exemplary Educational Objectives:**

N/A

**SCANS Skills:**

C1, C5, C6, C7, C8, C9, C10, C11, C13, C15, C16, C17, C18, C19, C20, F1, F2, F3, F4, F5, F7, F8, F9, F10, F11, F12, F13, F16, F17

**Lectures & Discussions:**

Class sessions will consist of some lecture time and some lab time. Some assignments will be worked on together during class. However, you must find time outside of class to read the book and to complete the assignments.

**Evaluation/Grading Policy:**

Programming Assignments: 25%

Chapter Quizzes: 25%

Midterm Exam: 20%

Final Exam: 20%

Class Participation / Homework / Practice Assignments: 10%

**Tests/Exams:**

The quizzes and exams will consist of a concepts section and a coding section. Students will be expected to do their own work on the quizzes and exams.

**Assignments:**

There may be some homework assignments such as textbook exercises. There will also be 4 - 6 programs assigned throughout the semester.

**Other Course Requirements:**

A free Dev C++ compiler is available. I will give you more information on this later. The Orwell Dev C++ is an updated version of the Dev C++ compiler and is the best choice for Windows 8 and later operating systems.

**Student Responsibilities/Expectations:**

Students are expected to complete course work in an honest manner, using their intellects and resources designated as allowable by the course instructor. Students are responsible for addressing questions about allowable resources with the course instructor. NTCC upholds the highest standards of academic integrity. This course will follow the NTCC Academic Honesty policy stated in the Student Handbook. Students assume full responsibility for the content and integrity of the academic work they submit. The guiding principle of academic integrity shall be that a student's submitted work, examinations, reports,

and projects must be that of the student's own work. Students shall be guilty of violating the honor code if they:

1. Represent the work of others as their own.
2. Use or obtain unauthorized assistance in any academic work.
3. Give unauthorized assistance to other students.
4. Modify, without instructor approval, an examination, paper, record, or report for the purpose of obtaining additional credit.
5. Misrepresent the content of submitted work.

The penalty for violating the honor code is severe. Any student violating the honor code is subject to receive a failing grade for the course and will be reported to the Office of Student Affairs. If a student is unclear about whether a particular situation may constitute an honor code violation, the student should meet with the instructor to discuss the situation.

For this class, it is permissible to assist classmates in general discussions of computing techniques. General advice and interaction are encouraged. Each person, however, must develop his or her own solutions to the assigned projects, assignments, and tasks. In other words, students may not "work together" on graded assignments. Such collaboration constitutes cheating. A student may not use or copy (by any means) another's work (or portions of it) and represent it as his/her own.

If the instructor receives two or more assignments which appear to be identical and the result of dishonesty, all parties involved will receive a zero on that assignment. Keep track of your work and do not share with others. If multiple events like this occur, the instructor reserves the right to award a failing grade for the course.

#### **NTCC Academic Honesty Statement:**

"Students are expected to complete course work in an honest manner, using their intellects and resources designated as allowable by the course instructor. Students are responsible for addressing questions about allowable resources with the course instructor. NTCC upholds the highest standards of academic integrity. This course will follow the NTCC Academic Honesty policy stated in the Student Handbook."

#### **Academic Ethics**

The college expects all students to engage in academic pursuits in a manner that is beyond reproach. Students are expected to maintain complete honesty and integrity in their academic pursuit. Academic dishonesty such as cheating, plagiarism, and collusion is unacceptable and may result in disciplinary action. Refer to the student handbook for more information on this subject.

#### **ADA Statement:**

It is the policy of NTCC to provide reasonable accommodations for qualified individuals who are students with disabilities. This College will adhere to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student's responsibility to arrange an appointment with a College counselor to obtain a Request for Accommodations form. For more information, please refer to the NTCC Catalog or Student Handbook.

#### **Family Educational Rights And Privacy Act (FERPA):**

The Family Educational Rights and Privacy Act (FERPA) is a federal law that protects the privacy of student education records. The law applies to all schools that receive funds under an applicable program

of the U.S. Department of Education. FERPA gives parents certain rights with respect to their children's educational records. These rights transfer to the student when he or she attends a school beyond the high school level. Students to whom the rights have transferred are considered "eligible students." In essence, a parent has no legal right to obtain information concerning the child's college records without the written consent of the student. In compliance with FERPA, information classified as "directory information" may be released to the general public without the written consent of the student unless the student makes a request in writing. Directory information is defined as: the student's name, permanent address and/or local address, telephone listing, dates of attendance, most recent previous education institution attended, other information including major, field of study, degrees, awards received, and participation in officially recognized activities/sports.

### **Other Course Policies:**

#### **COURSE BEHAVIOR**

Any acts of classroom disruption that go beyond the normal rights of students to question and discuss with instructors the educational process relative to subject content will not be tolerated, in accordance with the Academic Code of Conduct described in the Student Handbook.

#### **ATTENDANCE**

Students are expected to attend all class meetings. The student is responsible for obtaining material distributed on class days when he/she was absent. This can be done through contacting a classmate who was present or by contacting the instructor during her office hours or other times. Contact your instructor by phone or email should you not be able to attend class. Please see the schedule of classes for the last day to withdraw. Religious Holy Days: please refer to the current Northeast Texas Community College Student Handbook.