

HUDSON COUNTY COMMUNITY COLLEGE

Computer Science I – CSC 111

Instructor:

Credit: 3

Office Location:

Office Hours:

E-mail:

Required Text

[visual basic 2017 mode easy pdf](#)

[Starting out with Visual Basic by Tony Gaddis](#)

Course Description

Introduces the fundamentals of computer science. Algorithm design, flowchart, structure, programming methodology, hardware and software are discussed. A programming language such as Pascal, C++, or Visual Basic 6.0 is used to illustrate these concepts.

Course Objective

- Develop a greater understanding of the issues involved in programming language design and implementation
- Develop an in-depth understanding of functional, logic, and object-oriented programming paradigms
- Develop, understand, test, and evolve substantial programs using a modern IDE, and associated configuration tools
- Use programming approaches that avoid common coding errors
- Perform analysis of simple algorithms; select and use appropriate algorithmic approaches to solve problems (brute-force, divide-and-conquer, recursive backtracking, heuristic)
- Use established design principles to organize a software system
- Understand design/implementation issues involved with variable allocation and binding, control flow, types, subroutines, parameter passing
- Develop an understanding of the compilation process

Attendance

Regular attendance is vital. If you miss one day's lecture, it will be very difficult for you to understand the following lecture because each lecture is based on the previous one. A student who is absent more than two times will lose an entire grade (for example, if you currently have an A, you will now have an A-). Each subsequent absence will cause you to lose an additional grade. It is **your** responsibility to make up any missed work. In the event that you must miss a class, you must provide me with either a doctor's excuse, note from counselor, etc.

Evaluation Criteria

Your final grade will be based on the following criteria:

<u>Item</u>	<u>Weight</u>
4 Exams	60%
Class and Homework Assignments	40%

Make Up Exams

Make up exams will be given only in extenuating circumstances. It is your responsibility to let me know that you missed an exam. All make up exams are more difficult than the original.

ACADEMIC INTEGRITY

Academic integrity is central to the pursuit of education. For students at HCCC, this means maintaining the highest ethical standards in completing their academic work. In doing so, students *earn* college credits by their honest efforts. When they are awarded a certificate or degree, they have attained a goal representing genuine achievement and can reflect with pride on their accomplishment. This is what gives college education its essential value.

Violations of the principle of academic integrity include:

- Cheating on exams.
- Reporting false research data or experimental results.
- Allowing other students to copy one's work to submit to instructors.
- Communicating the contents of an exam to other students who will be taking the same test.
- Submitting the same project in more than one course, without discussing this first with instructors.
- Submitting *plagiarized* work. *Plagiarism* is the use of another writer's words or ideas without properly crediting that person. This unacknowledged use may be from published books or articles, the Internet, or another student's work.

When students act dishonestly in meeting their course requirements, they lower the value of education for all students. Students who violate the college's policy on academic integrity are subject to failing grades on exams or projects, or for the entire course. In some cases, serious or repeated instances of academic integrity violations may warrant further disciplinary action.

Disability Support Services

Students with disabilities who believe that they might need accommodations in this class are encouraged to contact the Disability Support Services at 201-360-4157 as soon as possible to better ensure that such assistance can be implemented in a timely fashion. All disabilities must be documented by a qualified professional such as a physician, licensed learning disability teacher (LDTC), psychologist, psychiatric nurse, licensed social worker or licensed professional counselor, who is qualified to assess the disability that the student claims to have and note recommendations on accommodations for the student. All information

provided to the Disability Support Services Program will be confidential between the program, professors involved with the student, and the individual student.

Disability Support Services

Students with disabilities who believe that they might need accommodations in this class are encouraged to contact the Disability Support Services at 201-360-4157 as soon as possible to better ensure that such assistance can be implemented in a timely fashion. All disabilities must be documented by a qualified professional such as a physician, licensed learning disability teacher (LDTC), psychologist, psychiatric nurse, licensed social worker or licensed professional counselor, who is qualified to assess the disability that the student claims to have and note recommendations on accommodations for the student. All information provided to the Disability Support Services Program will be confidential between the program, professors involved with the student, and the individual student.

Weekly Calendar

Week 1

Input/output Statements

Week 2

Data Types
Identifiers
Arithmetic Operations

Week 3

If-else statements
Logical Expressions

Week 4

Nested if
Switch Statements

Week 5

Test 1

Week 6

For and While Loops

Week 7

Do While Loop
Nested Loops

Week 8
Data Files

Week 9
Test 2

Week 10
Functions

Week 11
Function Continues

Week 12
Test 3

Week 13
Arrays

Week 14
Classes

Week 15

Test 4