CSC 25 Introduction to C Programming

Course Code: CSC 25

Instructor: Mo Sha

Home Institution: State University of New York at Binghamton

Office Hours: TBA and by appointment

Email: msha@binghamton.edu

Credit: 3

Course Description:

Review of programming concepts, programming environments, debugging tools, large program management and design.

This course is designed to provide a solid foundation and background in basic programming techniques and concepts, as well as an overview of programming in the C language:

- review basic programming concepts and problem solving techniques
- programming in a Linux environment without the help of an IDE
- programming and problem solving in the C language
- overview of simple data structures
- implement algorithms efficiently and correctly
- system tools useful for debugging

Required Textbooks:

Brian W. Kernighan and Dennis M. Ritchie. The C Programming Language. 2rd edition, Prentice Hall, 1988 [Free online].

Course Schedule

The course outline is tentative and may be modified accordingly depending on the pace of the class.

Week1: Basic C Programming Concepts, C Programming Environment, Variables and Conditionals, and Bitwise Operations.

Week2: Preprocessing, Functions, and Arrays.

Week3: User-defined Data Types, and Pointers.

Week4: Input and Output, and Applications.

Grading & Evaluation:

There will be one exam, 60 points. Exam tests basic programming concepts. Homework accounts 40 points. Homework tests the skill of programming and problem solving.

Attend Class

Students are expected to attend all class sessions as listed on the course calendar.

Letter Grade Assignment
Final grades assigned for this course will be based on the percentage of total points earned and are assigned as follows:

Letter Grade	Percentage	Performance
A	93-100%	Excellent Work
A-	90-92%	Nearly Excellent Work
B+	87-89%	Very Good Work
B	83-86%	Good Work
B-	80-82%	Mostly Good Work
C+	77-79%	Above Average Work
C	73-76%	Average Work
C-	70-72%	Mostly Average Work
D+	67-69%	Below Average Work
D	60-66%	Poor Work
F	0-59%	Failing Work

Course Policies

Build Rapport

If you find that you have any trouble keeping up with assignments or other aspects of the course, make sure you let your instructor know as early as possible. As you will find, building rapport and effective relationships are key to becoming an effective professional. Make sure that you are proactive in informing your instructor when difficulties arise during the semester so that they can help you find a solution.

Understand When You May Drop This Course

It is the student's responsibility to understand when they need to consider disenrolling from a course. Refer to the Course Schedule for dates and deadlines for registration. After this period, a serious and compelling reason is required to drop from the course. Serious and compelling reasons includes: (1) documented and significant change in work hours, leaving student unable to attend class, or (2) documented and severe physical/mental illness/injury to the student or student's family.

Commit to Integrity

As a student in this course (and at this university) you are expected to maintain high degrees of professionalism, commitment to active learning and participation in this class and also integrity in your behavior in and out of the classroom.

Academic Honesty Policy & Procedures

"The principles of truth and honesty are recognized as fundamental to a community of scholars and teachers. University expects that both faculty and students will honor these principles, and in so doing, will protect the integrity of academic work and student grades."

Definitions

"**Cheating** is the act of obtaining or attempting to obtain credit for academic work through the use of any dishonest, deceptive, or fraudulent means."

"Plagiarism is a form of cheating."

"Plagiarism is the use of distinctive ideas or works belonging to another person without providing adequate acknowledgement of that person's contribution."