

Instructor: Dr. Ziya Arnavut
Email: arnavut@fredonia.edu
Phone: 673-3864

Office: 227 Fenton Hall
Off. Hrs: TTh 2:00-3:00 pm. &
WF 10:30-12:00 pm &
by Appointment

GENERAL INFORMATION

TOPICS:

- a) File I/O; binary and Text Files
- b) Abstract Data Types
- c) Dynamic Memory Allocation Techniques
- d) Dynamic Memory Allocation for Multi dimensional arrays (2-D, 3-D, etc.)
- e) Bitwise Operators
- f) Overloading of functions and Exception Handling
- g) Structures and Classes
- h) Constructors, destructors and operator overloading, such as “=”
- i) Elementary sort and search algorithms.
- j) Static and dynamic Linked Lists
- k) Static and dynamic Queues
- l) Time complexity
- m) If time permits, Recursion.

PREREQUISITE: CSIT 121 or consent of instructor

TEXTBOOK INFORMATION:

You may use any textbook. But I recommend the following:

Title: C++ Plus Data Structures
Author: Nell Dale
Edition: 4th
ISBN: 978-0-7637-4158-7
Publisher: Jones and Bartlett

GRADING POLICIES:

You are responsible for all material presented in class and in assigned reading. Attendance is required. Contact me as soon as practicable if you have a legitimate reason for missing any work (e.g. illness or death in the family). In such cases, some requirements can be modified or waived. The sooner you inform me of a problem, the better!

Two exams and five quizzes will be given during the course. Second exam will be given at the scheduled final exam date and time, but will be a comprehensive final.

In addition, there will be **at least six homework** assignments. They will be due by the beginning of class on its specified due date. Late work is penalized 10% per working day. **No assignments will be accepted after two days** from the due date! Almost all of the assignments are programming related. Your Programs are expected to be fully documented and running. Programs that crash while running, or do run but do not achieve the objectives, will be penalized highly. For your own safety and comfort, please, do **start earlier** for programming assignments, since they may be time consuming. While collaboration on homework is permitted, **blatant copying will not be tolerated!**

GRADING:

At the end of the semester, as shown below, your final grade will be based on your total accumulated score.

<u>COMPONENT</u>	<u>CSIT-221</u>
Assignments	24%
Quizzes	30%
Exam 1	18%
<u>Final Exam</u>	<u>28%</u>
Total	100 %

The following grading scale will be used in determining your final grade:

A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F
93 – 100%	89 – 92%	85 – 88%	81 – 84%	77– 80%	73 – 76%	69 – 72%	65 – 68%	61 – 64%	57 – 60%	54 – 56%	0 – 53%

NOTES:

1. The dates of quizzes, assignments, and exam will be announced in class.
2. Textbook is for your reference (I may not follow the book chapter by chapter).