



CMSC 21

FUNDAMENTALS OF PROGRAMMING

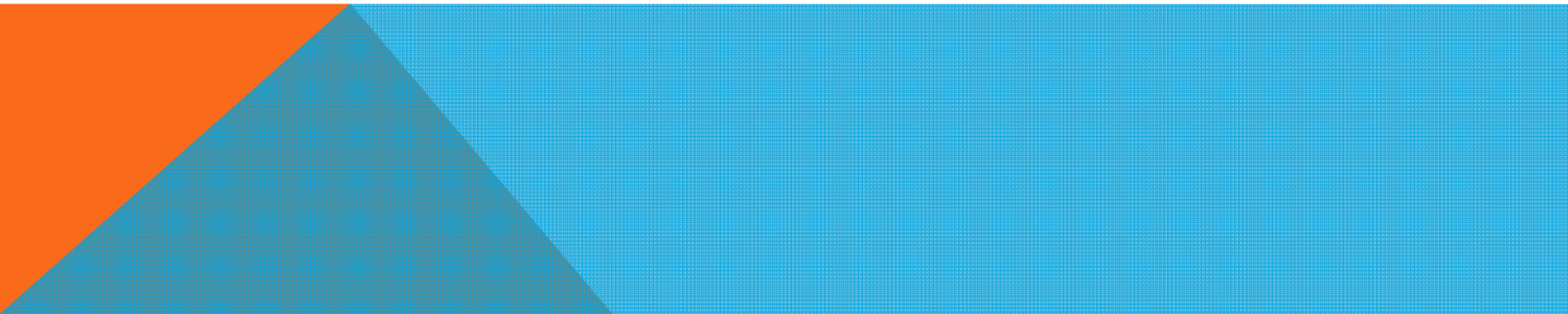
SOME INFORMATION...

Course Title: Fundamentals of Programming

Prerequisite: CMSC 11

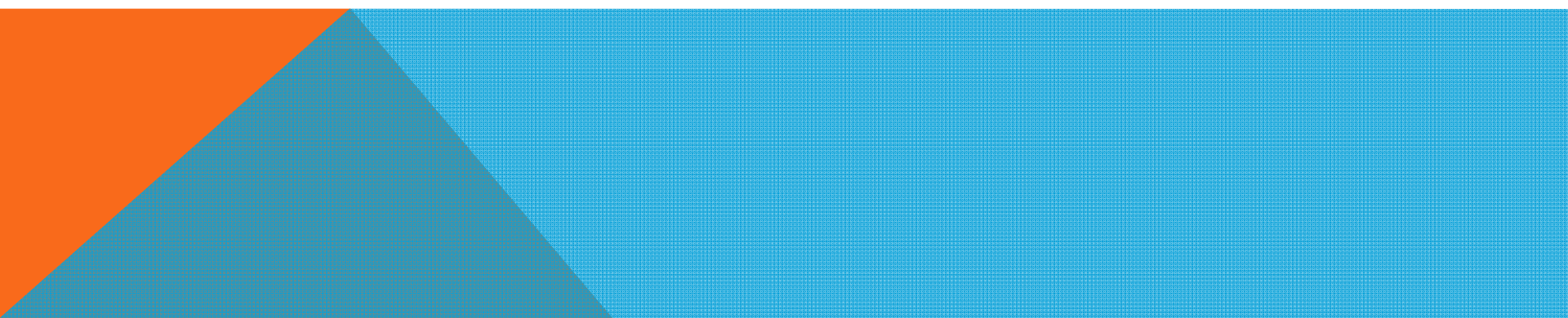
Units: 3.00

Hours/Week: 2 hrs lecture, 3 hrs lab



OBJECTIVES

At the end of the course, the student should be able to...

1. create well-structured programs proficiently in the C programming language,
 2. design and implement recursive algorithms
 3. use files and pointers in programming, and
 4. prove the correctness of a program.
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COURSE OUTLINE (1)

1. Introduction to Problem Solving

- a. The Program Development Process
- b. Top-Down Design
- c. Structured Programming

2. C Programming

- a. Review of CMSC 11
 - i. Data Representation
 - ii. Control Structures
 - iii. Functions & Recursions
- b. Pointers
- c. Arrays
- d. Records
- e. Linked Lists

1st Long Exam

2nd Long Exam

COURSE OUTLINE (2)

3. Program Correctness

- a. Program Specification
- b. Proof Rules for Simple Statements
- c. Compound and Conditional Statements
- d. Repetitive Statements
- e. Using the Basic Proof Rules

} 3rd Long Exam

COURSE POLICIES (1)

This course is a **PASS BOTH** course.

The final exam is **REQUIRED**.

The maximum number of allowable absences (excused or unexcused) is **seven (7)**.

- If majority of the absences are excused, a grade of DRP will be given.
- If majority of the absences are unexcused, a grade of 5.00 will be given provided that there is enough basis for a failing grade.
- Students who never attended may be given a grade of DRP.
- An absence will only be considered excused if and only if the student presents a valid excuse slip approved by the College Secretary of his/her college.

CHEATING during exams is punishable by **EXPULSION**.



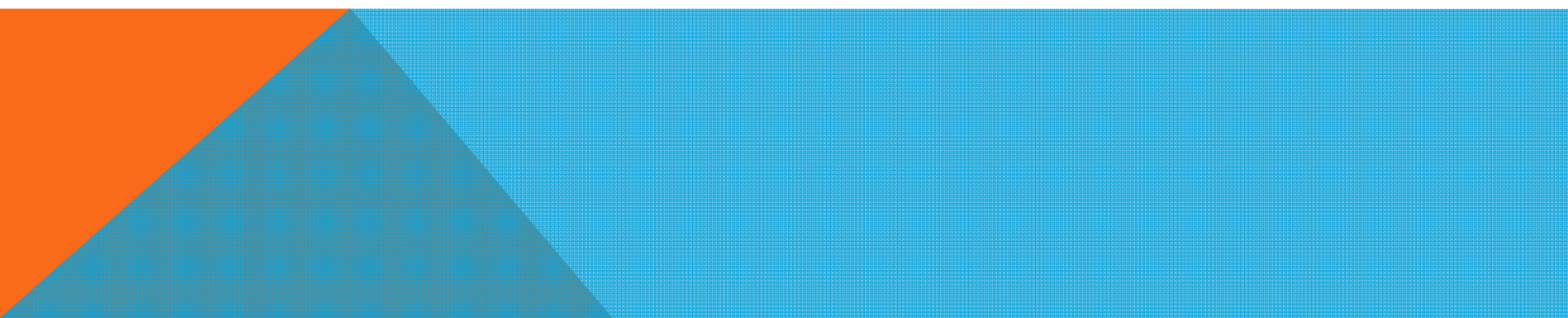
COURSE POLICIES (2)

Missed exams

- If a missed exam is due to an excused absence, then the student's final exam will take the place of that exam.
- If a missed exam is due to an unexcused absence, then the student will automatically incur a grade of zero (0) for that exam.

Excused Absences

- Absences will only be considered excused if and only if the student presents an excuse slip within one (1) week of his return to class.



GRADING SYSTEM

Component	%
Lecture Quizzes/Assignments, etc.	4%
Lecture Exams	36%
Final Exam	20%
TOTAL	60%

The lecture is 60% of your laboratory grade in CMSC 21.

The laboratory part is 40%. The grading system for the laboratory part will be discussed by your laboratory instructors.

GRADING SCALE

Numeric Equivalent	Grade
96-100	1.00
90-95	1.25
85-89	1.50
80-84	1.75
75-79	2.00
70-74	2.25
65-69	2.50
60-64	2.75
55-59	3.00
< 55	5.00

INSTRUCTORS

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Consultation Hours:

- W: 1:00-4:00
- TTh: 11:00-12:00
- WF: 8:30-10:00
- F: 1:00-3:00

