

Midwestern State University  
Department of Computer Science  
Fall 2023

### Course Information

Course syllabus: Advanced Programming Languages Concepts  
Course number: CMPS 5113.  
Course Section: 102.  
Class hours: 3:30 pm to 4:50 pm, Monday and Wednesday.  
Class room: Bolin 209.

### Instructor Information

Instructor's Name: Doctor Eduardo Colmenares.  
Instructor's office: Bolin Hall, office 126C.  
Instructor's email: [eduardo.colmenares@msutexas.edu](mailto:eduardo.colmenares@msutexas.edu)

### Office Hours

All office hours will be virtual via zoom.

Mondays 8:00 am to 9:00 am  
Tuesdays 8:00 pm to 9:30 pm  
Wednesdays 8:00 am to 9:00 am  
Thursdays 8:00 pm to 9:30 pm

### ZOOM information

[Zoom Link](#)

### Course Description

This course explores techniques for specifying the syntax and semantics of programming languages. Such language concepts as data structuring, information binding, control structures, execution environments, and extensibility are examined by studying scientific data processing, list processing, and multi-purpose languages.

### Textbook

Is the textbook required? The answer is No, however access to the book is strongly recommended since reading assignments can occur and material from the book can also be included on exams.

Textbook name: Programming Languages, Principles and Practice.

Textbook Author: Louden & Lambert.

Textbook edition: Third edition

### Course Prerequisites

CMPS 2433 or concurrent enrollment.

### Evaluation Process

The final grade for this course will be based on participation, projects and exams. A description is provided below:

- You will have two tests (T1 and T2), plus one final exam (FE). T1 and T2 are worth 18 percent each, the final exam is worth 19 percent.

- You will have several homeworks during the semester all of them adding up to 30 percent.
- The next category is participation. This will count for 9 percent of your final grade. Please be aware that this category includes in-class-activities (ICAs) and quizzes. Below you will find additional information about this category.
  - Assignments given in class, also known as in-class-activities (ICAs) will be unannounced in nature.
  - Quizzes will be non-pop-up quizzes. There are three potential formats for our Quizzes, the instructor decides which format to use and when.
  - Potential Presentations or demos.
  - No makeup participation assignments are given.
  - Arriving late, leaving early to class voids the right to take a quiz or in class activity if it already started or it is about to start. This will be enforced.
- Attendance will be a component of your grade, more details below.

### Attendance

- Attendance is a component of the course grade (six percent). Each student will begin with 100 points for their attendance grade. For each additional unexcused absence 33.33 points will be subtracted from the attendance grade.
- Your instructor will go over the class roster at the beginning of class and will call the students by name, if the student is not present at that time, an absence will be given and not removed after arrival. Arriving late will be considered unexcused absence. The Attendance grade is 100% under the student's control.
- After five (4) unexcused absences the student will be dropped from the class (To be enforced).
- Additional class attendance related MSU Policies apply.

### Evaluation Process Summary Table

Category	Percentage
Test 1	18%
Test 2	18%
Final Exam	19%
Participation (Quizzes & more)	9%
Attendance	6%
Homework	30%

### Grading Policy

90 to 100 points is an A.  
 80 to 89.99 points is a B.  
 70 to 79.99 points is a C.  
 60 to 69.99 points is a D.  
 0 to 59.99 points is an F.

### Required Hardware

- Access to a regular traditional PC/Mac.

## Tests

Tests are comprehensive in nature. No make-up exams will be given, except for the following cases:

- Properly documented Surgery, Medical Emergency, Death in the family, Presentation at a Conference, some others as determined by the instructor.
- If you miss an exam, the make-up exam you need to notify the instructor and demonstrate with the proper official documentation (signatures, seals, contact information) that an emergency that you could not circumvent existed. This documentation must be presented not later than 24 hours after the test.
  - a. Students who miss an exam due to University business should notify the instructor in advance, and present the sponsoring university member's written justification.
  - b. If your instructor cannot verify or validate the given documentation, then it will consider invalid and no make-up exam will be given.

If you do miss an exam and your case fall in one of the categories above this means that you have a properly documented case. Your instructor will proceed to assign a temporary grade of zero, which will be substituted for your excused test grade (Final Exam). However, this substitution can only be performed once during the semester. Exams are uniquely composed for each term.

## Final Exam

- There is no make-up final exam. The final exam will take place in our regular classroom (unless decide otherwise by the University). It is the student's responsibility to keep track of the designated date, time. A complete list of all MSU exams (by time) can be found at [Final Exam Schedule](#).
- The date of our final exam is Monday, December the 11<sup>th</sup> from 3:30 pm to 5:30 pm.
- There is no make up for the final exam.

## No Procrastination Policy

Students are strongly encouraged to contact the instructor during office hours to clarify questions associated with lectures, exams, assignments, presentations, quizzes, homework, etc. Questions are more than welcome from the moment the assignments, projects, quizzes, exams are either released or announced, however, all questions stop the day before the assignment, exam, quiz, presentation is due. This rule is designed to promote responsible time management and personal organization.

## Late Policy & Deadlines

- Submitted work is due when specified, as specified (format) by the instructor. It is in the student's best interest to keep track of all deadlines.
- The instructor is not required to remind students of ANY date and/or deadline associated with tests, homework, reports, project assignment, etc.
- **Late assignments WILL NOT BE ACCEPTED. This rule will be enforced**
  - **What does it mean to be late?** Answer: for example, if your assignment is due today at 8:00 am and you attempt to deliver your report by 8:00:01 am (1 second late) then it will be considered late. There will not be exemptions of any kind.
  - **Assignments MUST be submitted to the corresponding Dropbox via D2L before it closes (deadline).** If the Dropbox has closed and you cannot upload your assignment to it, then you are late and your assignment will not be accepted.

- Students will have more than enough time to complete their assignment on time.
- Internet outage, computer problems, car problems, work, and several others are NOT a valid excuse for a late delivery.
- Very Important: Before you submit any file, take your time and double OR triple check that
  - a. You are uploading the correct and ALL necessary files
  - b. Your work is correct at the best of your abilities
  - c. Failure to fulfill (a) and (b) ON TIME, WILL NOT excuse you from a bad grade.

Please let your instructor know if you are going to miss a class for academically related extracurricular activities. If this is the case you must present the sponsoring university member's written justification before your absence occurs.

### **Additional Grade Policy**

Once the grades, have been either returned to the students, or published via D2L, the student will have one week to examine them and check for inconsistencies, errors, etc. After the one week window of opportunity all grades will become PERMANENT and WILL NOT change. It is not only the student's responsibility to check the accuracy of his/her grades, but also in his/her best interest to do it. This rule DOES NOT apply to the final exam because the final is exam triple checked by the instructor before publishing the grade.

### **Academic Misconduct Policy & Procedures**

Cheating, collusion, and plagiarism (the act of using source material of other persons, devices, AI Generators, either published or unpublished, without following the accepted techniques of crediting, or the submission for credit of work not the individual's to whom credit is given). The Department of Computer Science has adopted the following policy related to cheating (academic misconduct). The policy will be applied to all instances of cheating on assignments and exams as determined by the instructor of the course. (See below for link to MSU definitions.)

- 1st instance of cheating in a course: The student will be assigned a non-replaceable grade of zero for the assignment, project or exam. *If the final grade in the course, does not result in a one letter grade reduction, the student will receive a one letter grade reduction in course.*
- 2nd instance of cheating in a course: The student will receive a grade of F in course & immediately be removed from course.
- All instances of cheating will be reported to the Department Chair and, in the case of graduate students, to the Department Graduate Coordinator.

***Note: Letting a student look at your work is collusion and is academic misconduct!***

See Also: [MSU Student Handbook](https://msutexas.edu/student-life/_assets/files/handbook.pdf): Appendix E: Academic Misconduct Policy & Procedures  
[https://msutexas.edu/student-life/\\_assets/files/handbook.pdf](https://msutexas.edu/student-life/_assets/files/handbook.pdf).

### **Policy on Testing Process**

The Department of Computer Science has adopted the following policy related to testing.

- a) All bags, purses, electronics (turned off), books, etc. will be placed in the front of the room during exams, or in an area designated by the instructor.
- b) Unless otherwise announced by the instructor, nothing is allowed on the desk but pen/pencil/eraser and test papers.

- c) You are not allowed to leave the classroom. Please take this seriously and into consideration before any test and the final. Prepare yourself to be in the classroom during the entire exam.
- d) If you decide to leave the classroom during a test and/or the final exam, your exam will be collected, and you will not be allowed to continue.

### **Classroom Civility**

All violations of classroom civility will be reported to the Dean of Students.

Students are expected to assist in maintaining a classroom environment that is conducive to learning. In order to ensure that all students gain from time spent in class, students are prohibited from engaging in any form of distraction, e.g. leaving the room for extended periods of time, reading newspapers (or other articles), working on other courses, and using cell-phones or laptops for calls or messages. If you indulge in any such inappropriate behavior (without explicit consent of the instructor), you will (at the very least) be asked to leave the classroom. [MSU Dean of Students Website](#).

### **Student with Disabilities**

Any student who, because of a disability, may require special arrangements in order to meet the course requirements should contact the instructor as soon as possible to make any necessary arrangements. Students should present appropriate verification from disability support office during the instructor's office hours. Please note instructors are not allowed to provide classroom accommodations to a student until appropriate verification from Disability Support Office has been provided. For additional information you may contact the Disability Support Office in Clark Student Center 168 - Phone: (940) 397-4140.

[Disability Support Services](#).

### **Dean of Students**

The Dean of Students can assist in notifying the campus community of student illnesses, immediate family deaths and/or student death. Generally, in cases of student illness or immediate family deaths, the notification to the appropriate campus community members occur when a student is absent from class for four consecutive days with appropriate verification. It is the student's responsibility for missed class assignments and/or course work during their absence. [MSU Dean of Students Website](#).

### **RECORDING OF CLASS LECTURES**

Permission must be requested in writing & obtained from the instructor before recording of class lectures. If permission is granted, the recording may only be used by the student making the recording. Recordings may NOT be posted on any internet source without written permission of the instructor. Failure to adhere to the policy may result in removal from the course with a grade of F or other appropriate punishment.

### **Broadcasting of Lectures**

Not a single lecture will be broadcasted or recorded unless

- The faculty members is instructed or required to work from home

### **University's Campus Carry**

Senate Bill 11 passed by the 84th Texas Legislature allows licensed handgun holders to carry concealed handguns on campus, effective August 1, 2016. Areas excluded from concealed

carry are appropriately marked, in accordance with state law. For more information regarding campus carry, please refer to the University's webpage at [Campus Carry](#).

### **Additional Office Hours & Meeting Policies**

In order to protect your wellbeing and the one of those that you care about, the following preventive measurements will take place:

- a) Office hours will be virtual via ZOOM. Check your syllabus for detailed office hours.
- b) Your instructor will not touch any computer or USB Drive. NO Exemptions.
- c) If at some point you need/want me to look at your programming assignment or class project, you can do it by sharing your desk via ZOOM (Virtually) during office hours.
- d) Questions associated with ADVISING, degree plans, etc., will be addressed (Virtually-ZOOM) during office hours.
- e) The faculty member is open and available to face to face meetings if the student is in good health condition and not showing symptoms of running nose, sneezing, coughing.

### **Covid Precautions**

I encourage all those who wish to wear a mask to do so. Any vulnerable or unvaccinated person should wear an N95 or equivalent, if they want to protect themselves from others.

### **Tentative Agenda**

The instructor reserves the right to add, remove, reorder topics as he considered convenient towards the benefit of the class. By the end of the semester you will have a very good understanding of the following categories and multiple non mentioned subcategories.

Syllabus, overview,	
Intro, early history	Ch1
Pseudocode language, Fortran	Supp
Lang Design Criteria	Ch2
Lang. Design Criteria, Syntax	Ch2, Ch6
Syntax, OOP Concepts, C#; C# Files	Supp, Ch5, Ch6, Ch7, Ch8
Syntax Notations, Data Types, Data Structures	Ch7, Ch8
C# Arrays, C# namespaces	Ch11.3 (general concepts), sup
Logic Programming, Prolog	Ch6, sup
Functional Programming	Ch3
Control Structures	Ch10
Scoping, seq. Control	Ch9
C# exceptions,	Ch9, Ch13, supp.
Parallel	Ch13, supp.

### **LIFE - ADVISE VA**