

COP 3223 Section 3

Intro. C Programming

Spring 2023

Instructor: Dr. Niels da Vitoria Lobo Office: HEC Room252 Tel: 407-823-2873

Best contact is email: nlobo@ucf.edu (put 3223 as first word of Subject Line)

Textbook: This section does not use a textbook, we use the website lecture notes listed at <http://www.cs.ucf.edu/~dmarino/ucf/cop3223/lectures/indexF08.html>

Other Important Website: <http://www.cs.ucf.edu/courses/cop3223/spr2023/section3> has everything for the class: lecture notes, grading scheme, **DAILY HOMEWORK**, schedule, and later will have extra notes, etc. Use any additional Textbook you wish.

Evaluation:

4 tests (40%); 3 full exams (30%); 1 FinalExam (15%); 5 program assignments (15%). Based on total score, grades are given as: W, A(>95), A-(>91), B+(>87), B(>83), B-(>79), C+(>75), C(>70), C-(>68), D(>=60), F (<60) and I (in very rare circumstances).

Notes: (These notes override all other notes, if any conflict exists.)

- 1) **FULL EXAMS are last 3 class days.** Show Photo ID at all tests/exams.
- 2) Attendance at every class lecture is mandatory. If you are in a situation where you must miss a class, make sure you **send email to nlobo@ucf.edu, and do the DAILY HOMEWORK BEFORE you return to the next class.** Study carefully before you attend the next class.
- 3) Makeup tests/exams will generally not be given. For exceptions, consult instructor at least 7 days before the test/exam.
- 4) Generally, do everything the instructor asks you to do as soon as he recommends that you do it. **At the very least, do the DAILY HOMEWORK.** This will prevent you from falling behind. This material constantly builds upon itself, so it is **difficult to get caught up later** in bursts of effort.
- 5) **DO NOT EVEN BE TEMPTED TO CHEAT** on homeworks or in tests. This material is well worth mastering, and the rewards for acquiring competence will be lifelong.
- 6) UCF will provide you with adequate tutoring support and teaching assistance, but *not if you wait till the last minute.* So, once again, **start early on everything**, and let the instructor and the teaching assistants know when you need help.
- 7) This is a large class, and the only way you are going to get the help you need is if **YOU ASK** for it. So, **develop a habit of demanding the help that you need**, as early as you can. The more you put off asking for help, the more likely you are to not get that help in a timely manner. PLEASE SEE FINAL PAGE FOR SCHEDULE.

Expected Amount of work each week:

HoursWork is informally: $4 + \text{DesiredScore}/6.5 - (.25 \times \text{ExpertiseRated20thru65})$

Examples: 1) Beginner (expertise of 1) desires 70, needs 9 hours

2) Beginner (expertise of 1) desires 100, needs 14 hours

3) Expert (need not be in this class) desires 100, needs 3 hours

4) Expert (need not be in this class) desires 78, needs 0 hours

Announcements:

While the class website <http://www.cs.ucf.edu/courses/cop3223/spr2023/section3> will have all important class material, you should also frequently check the Webcourses Announcements to ensure you have not missed any important communication from the instructor.

Course Learning Outcomes:

- . Learn to program in the language C
- . Learn how to make programs read/write, including from/to files
- . Learn how to use arrays, and structs
- . Learn how to work with memory addresses, and allocate memory
- . Learn how to write programs that use the above capabilities combined with functions, and conditional statements and loops.

Academic Integrity:

Students should familiarize themselves with UCF's Rules of Conduct. According to Section 1, "Academic Misconduct", students are prohibited from engaging in Unauthorized assistance: Using or attempting to use unauthorized materials, information or study aids in any academic exercise unless specifically authorized by the instructor of record. The unauthorized possession of examination or course-related material also constitutes cheating.

Communication to another through written, visual, electronic, or oral means: The presentation of material which has not been studied or learned, but rather was obtained through someone else's efforts and used as part of an examination, course assignment, or project.

Commercial Use of Academic Material: Selling of course material to another person, student, and/or uploading course material to a third-party vendor without authorization or without the express written permission of the university and the instructor. Course materials include but are not limited to class notes, Instructor's PowerPoints, course syllabi, tests, quizzes, labs, instruction sheets, homework, study guides, handouts, etc.

Falsifying or misrepresenting the student's own academic work.

Plagiarism: Using or appropriating another's work without any indication of the source, thereby attempting to convey the impression that such work is the student's own.

Multiple Submissions: Submitting the same academic work for credit more than once without the express written permission of the instructor.

Helping another violate academic behavior standards.

Accessibility:

UCF is committed to providing access and inclusion for all persons with disabilities. Students with disabilities who need disability-related access in this course should contact the professor as soon as possible. Students should also connect with Student Accessibility Services (SAS) <http://sas.sdes.ucf.edu> (Ferrell Commons 185, sas@ucf.edu, phone 407-823-2371).

Safety:

Emergencies on campus are rare, but if one should arise during class, everyone needs to work together. Students should be aware of their surroundings and familiar with some basic safety and security concepts. In case of an emergency, dial 911 for assistance.

Every UCF classroom contains an emergency procedure guide posted on a wall near the door. Students should make a note of the guide's physical location and review the online version at http://emergency.ucf.edu/emergency_guide.html.

Students should know the evacuation routes from each of their classrooms and have a plan for finding safety in case of an emergency.

If there is a medical emergency during class, students may need to access a first-aid kit or AED (Automated External Defibrillator). To learn where those are located, see <http://www.ehs.ucf.edu/workplacesafety.html> (click on link from menu on left).

To stay informed about emergency situations, students can sign up to receive UCF text alerts by going to ucf.edu and logging in. Click on "Student Self Service" located on the left side of the screen in the toolbar, scroll down to the blue "Personal Information" heading on the Student Center screen, click on "UCF Alert", fill out the information, including e-mail address, cell phone number, and cellphone provider, click "Apply" to save the changes, and then click "OK."

Students with special needs related to emergency situations should speak with their instructors outside of class.

To learn about how to manage an active-shooter situation on campus or elsewhere, consider viewing this video at <https://youtu.be/NIKYajEx4pk>

Active Duty:

Students who are deployed active duty military and/or National Guard personnel and require accommodation should contact their instructors as soon as possible after the semester begins and/or after they receive notification of deployment to make related arrangements

SEE FINAL PAGE for SCHEDULE

Schedule for COP3223 Section 3 Spring 2023

Date	Test/Final	Homework	Topic
Mon, Jan 9			Intro to Programming, First Program, Variables
Wed, Jan 11			Variables, Arithmetic Expressions
Fri, Jan 13		Homework 0 due	Arithmetic Expressions, Language Basics
Wed, Jan 18			IF Statement
Fri, Jan 20			More IFs; Loops
Mon, Jan 23			Loops
Wed, Jan 25		Homework 1 Due	Loops, Review
Fri, Jan 27			Advanced programs with loops
Mon, Jan 30			Arrays
Wed, Feb 1	Test 1		
Fri, Feb 3			Array Examples
Mon, Feb 6			2D Arrays
Wed, Feb 8			2D Arrays, Pointers
Fri, Feb 10			Pointers, File Input/Output
Mon, Feb 13			Calling Functions, Review
Wed, Feb 15		Homework 2 due	Calling/Writing Functions
Fri, Feb 17			Void and Other functions, Pass by Reference
Mon, Feb 20			More Pass by Ref., Program Examples
Wed, Feb 22	Test 2		
Fri, Feb 24			More Pass by Ref., Program Examples
Mon, Feb 27			Program Examples, Structures
Wed, Mar 1			More Structures
Fri, Mar 3			More Structures
Mon, Mar 6		Homework 3 due	Review
Wed, Mar 8			Program Examples, Files again
Fri, Mar 10	Test 3		
Mon Mar 13	SPRING BREAK WEEK		
Mon, Mar 20			Pointers
Wed, Mar 22			Pointers
Fri, Mar 24	Withdrawal Deadline		Memory Allocation
Mon, Mar 27			Program Examples
Wed, Mar 29			Program Examples
Fri, Mar 31			Program Examples, Sorting
Mon, Apr 3		Homework 4 due	Review
Wed, Apr 5			Linked Structures
Fri, Apr 7	Test 4		
Mon, Apr 10			Linked Structures
Wed, Apr 12			Linked Structures
Fri, Apr 14			Program Examples
Attention: Study before exams			
Mon, Apr 17			Program Examples, Review
Wed, Apr 19	FULL EXAM Part 1		FULL EXAM Part 1
Fri, Apr 21	FULL EXAM Part 2		FULL EXAM Part 2
Mon, Apr 24	FULL EXAM Part 3	Last regular class	FULL EXAM Part 3
Wed, Apr 26	FINAL EXAM Time: 1pm to 3:50pm (Call for Results Apr 30, 3pm)		
Sat, Apr 29		Homework 5 due	
HappyEnd			
Wed, May 3	Grades turned in at 3pm; after this, no changes will be made		