Document:	Programming Languages Course Administration			
Revised:	**April 19, 2023**			
Course Title:	Programming Languages			
Course Number:	CMSC 4023			
Section:	CRN 21502 and IVE CRN 22142: Monday and Wednesday, 5:45 – 7:00 p.m., MCS 115			
Instructor:	Dr. Thomas R. Turner; Office: MCS 134; Work Phone: 974-5383, e-mail: trturner@uco.edu			
Office Hours:	**Time**	**Monday**	**Wednesday**	**Friday**
	9:00 – 9:50 a.m.	MCS 134	MCS 134	MCS 134
	4:00 – 5:00 p.m.	MCS 134	MCS 134	
	Please make an appointment to visit me during my office hours.			
Text:	1. Sebesta, Robert W. *Concepts of Programming Languages 10th Ed.* Pearson 2 ISBN: 978-0-13-139531-2			
References:	1. Louden, Kenneth C. *Programming languages: principles and practice* 2nd Ed. Brooks/Cole, a division of Thomson Learning, Inc. Thomson Learning™, 2003 ISBN: 0-534-95341-7 2. Stroustrup, B. *The C++ Programming Language, Special Edition*, Addison-Wesley 2000 ISBN 0201700735 3. Aho, A. V., Ravi, S., and Ullman, J. D.; Compilers, principles, techniques, and tools. Addison-Wesley 1988 ISBN 0-201-10088-6			
Prerequisites:	1. CMSC 3613, Data Structures 2. CMSC 2613, Programming II 3. CMSC 2833, Computer Organization I 4. CMSC 2123, Discrete Structures 5. CMSC 1613, Programming I 6. CMSC 1513, Beginning Programming (Pascal) 7. MATH 2323, Calculus 2 8. STAT 3103, Statistical Methods I ***or*** STAT 4113, Mathematical Statistics I			
Course due dates:	All assignments, projects, reports and quizzes are due at the beginning of class on the date given in this document unless otherwise specified. Exams that are administered in class are due at the end of the class period.			
Course Scoring:	**Task**	**Date**	**Value**	
	Test 1	***2-20***	**150**	
	Test 2	***4-12***	**150**	
	Final Exam	***5-10***	**300**	
	Assignments	Table 2	100	
	Programming Projects	Table 3	150	
	Reports	Table 4	50	
	Total		**900**	

Grading:	**A**: 90% (810-900); **B**: 80-89% (720-809); **C**: 70-79% (630-719); **D**: 60-69% (540-629); **F**: 59% (0-539) and below.
Notice:	Beepers and cellular phones are prohibited in class.
Caveat:	This lecture schedule, programming projects and due dates, number and dates of tests are all subject to change. Changes are presented in class ***You*** are responsible for the material presented in class.
Class Web Page:	The course administration and assignments can be found on URL **http://www.comsc.uco.edu/~trt/cs4023/cs4023.html**
Course Directory	The course directory is on the campus computer. You can find test data files in the course directory. **~tt/cs4023/**
Student Disabilities:	Students with disabilities who require accommodations may contact the campus Equity Office (Thatcher Hall, Room 200, ext. 2573) to request assistance.
Absences:	1. A **45-point bonus** is awarded to any student having no recorded absences. The attendance bonus will be denied to any student who is absent for ***any*** reason. The attendance bonus will not be granted to any student having an excused absence. 2. A student may be absent for up to **three (3)** classes without penalty: these three classes are counted as excused absences. No notification or documentation is required except when a test is given. 3. **Fifteen (15)** points will be deducted from the student's final score for the **fourth and every subsequent** class for which the student is recorded absent. A student will be marked absent if the student is not present when roll is called. A student will be marked absent if the student leaves before class is dismissed. 4. A student who is absent on the day of a test will receive a zero on an examination unless written justification is presented to the instructor. Acceptable justification includes university sanctioned travel, military obligation, serious illness or injury, or death or serious illness in the immediate family. Work-related conflicts are not acceptable excuses. 5. Please note that **roll is taken** for those students enrolled in the **Interactive Video** section at the time this class is scheduled to meet on campus. **No recording is available for later viewing.** 6. **All students are required to take examinations on campus in the classroom assigned for this class** on the dates given in the schedule.
Academic Honesty and Collaboration:	Students are encouraged to collaborate. However, each student must make a ***unique*** contribution to any joint effort and that unique contribution must be ***visible*** in the work submitted by the student. You may use the internet to find additional information or solutions related to this course. However, like collaboration, any material, whose origin is the internet, submitted as a requirement of this class, must contain your ***unique*** and ***substantial*** contribution. Partially or completely copied assignments shall be considered a prima facie case for academic dishonesty.

Table 1. Lecture Schedule			
Lecture	**Date**	**Topic**	**Text**
1	1-18	Course Administration Preliminaries	Chapter 1
2	1-23	Describing Syntax and Semantics **Submit a01**	Chapter 3
3	1-25	Describing Syntax and Semantics	Chapter 3
4	1-30	Lexical and Syntax Analysis **Submit a02** **No Class – UCO Closed.**	Chapter 4
5	2-1	Lexical and Syntax Analysis **No Class – UCO Closed.**	Chapter 4
6	2-6	p01 overview **Submit a03**	Lecture Notes
7	2-8	Names, Binding, and Scopes	Chapter 5
8	2-13	Names, Binding, and Scopes **Submit p01 – Subset Pascal Scanner**	Chapter 5
9	2-15	p02 overview	Lecture notes
10	***2-20***	***Test 1***	***Chapters 1, 3, and 4***
11	2-22	Test 1 reprise	
12	2-27	Data Types **Submit p02 – Subset Pascal Parser**	Chapter 6
13	3-1	Data Types **Submit a04**	Chapter 6
14	3-6	Python Lecture **Submit a05**	Lecture notes
15	**3-8**	**Project p04.3 Overview – Graduate Students**	
16	3-20	Expressions and Assignment Statements **Submit p03 – Python Bracket Matching**	Chapter 7
17	3-22	Statement-Level Control Structures **Submit a06**	Chapter 8
18	**3-27**	**Project p04: 4,5,6 Overview – Graduate Students**	
19	3-29	Subprograms **Submit a07**	Chapter 9
20	4-3	Subprograms	Chapter 9
21	4-5	Implementing Subprograms **Submit a08**	Chapter 10
22	4-10	Implementing Subprograms **Submit a09**	Chapter 10
23	***4-12***	***Test 2***	***Chapters 5, 6, 7, and 8***
24	4-17	Test 2 Reprise	
25	4-19	Abstract Data Types and Encapsulation Constructs	Chapter 11

Table 1. Lecture Schedule (Continued)			
Lecture	**Date**	**Topic**	**Text**
26	**4-24**	**Margin** **Submit r01**	Chapter 11
27	**4-26**	**Margin** **Submit a10**	
28	**5-1**	**Margin**	
29	**5-3**	**Margin** ***Summary Score Sheets via e-mail***	
30		***Final Exam, 5:30 – 7:20 p.m., Wednesday, May 10, 2023.***	

Table 2. Assignments			
Assignment	**Due**	**Value**	**Description**
1	***1-23***	10	**a01**: Chapter 1 exercises
2	***1-30***	10	**a02**: Chapter 3 exercises
3	***2-6***	10	**a03:** Chapter 4 exercises
4	***3-1***	10	**a04**: Chapter 5 exercises
5	***3-6***	10	**a05**: Chapter 6 exercises
6	***3-22***	10	**a06**: Chapter 7 exercises
7	***3-29***	10	**a07**: Chapter 8 exercises
8	***4-5***	10	**a08**: Chapter 9 exercises
9	***4-10***	10	**a09**: Chapter 10 exercises
10	***4-26***	10	**a10:** Chapter 11 exercises
Total		**100**	

Table 3. Programming Projects			
Project	**Due**	**Value**	**Description**
1	***2-13***	50	**p01** – Subset Pascal Scanner
2	***2-27***	50	**p02** – Subset Pascal Parser
3	***3-20***	50	**p03** – Python Bracket Matching
Total		**150**	

Table 4. Reports			
Report	**Due**	**Value**	**Description**
1	***4-24***	50	**r01**: Library research
Total		**50**	

Assignment	Due	Project	Due	Report	Due	Test	Due
a01	***1-23***	p01	***2-13***	r01	***4-24***	t01	***2-20***
a02	***1-30***	p02	***2-27***			t02	***4-12***
a03	***2-6***	p03	***3-20***			t03	***12-16***
a04	***3-1***						
a05	***3-6***						
a06	***3-22***						
a07	***3-29***						
a08	***4-5***						
a09	***4-10***						
a10	***4-26***						