Document:	Programming Languages Course Administration			
Revised:	**August 22, 2022**			
Course Title:	Programming Languages			
Course Number:	CMSC 5023			
Section:	CRN 11002 and IVE CRN 16240 Monday and Wednesday, 5:45 – 7:00 p.m., MCS 111			
Instructor:	Dr. Thomas R. Turner; Office: MCS 134; Work Phone: 974-5383, e-mail: trturner@uco.edu			
Office Hours:	**Time**	**Monday**	**Wednesday**	**Friday**
	10:00 – 10:50 a.m.	MCS 134	MCS 134	MCS 134
	3:00 – 4:00 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	**9-26**	**150**	
	Test 2	**11-9**	**150**	
	Final Exam	**12-14**	**300**	
	Assignments	Table 2	100	
	Programming Projects	Table 3	450	
	Reports	Table 4	50	
	Total		**1200**	

Grading:	**A**: 90% (756-840); **B**: 80-89% (672-755); **C**: 70-79% (588-671); **D**: 60-69% (504-587); **F**: 59% (0-503) 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 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 and that **all students are required to take examinations in MCS 115** 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	8-22	Course Administration Preliminaries	Chapter 1
2	8-24	Describing Syntax and Semantics **Submit a01**	Chapter 3
	8-29	Describing Syntax and Semantics	Chapter 3
4	8-31	Lexical and Syntax Analysis **Submit a02**	Chapter 4
5	9-7	Lexical and Syntax Analysis	Chapter 4
6	9-12	p01 overview **Submit a03**	Lecture Notes
7	9-14	Names, Binding, and Scopes	Chapter 5
8	9-19	Names, Binding, and Scopes **Submit p01 – Subset Pascal Scanner**	Chapter 5
9	9-21	p02 overview	Lecture notes
10	***9-26***	***Test 1***	***Chapters 1, 3, and 4***
11	9-28	Test 1 reprise **Project p04: 1 and 2 Overview – Graduate Students**	
12	10-3	Data Types **Submit p02 – Subset Pascal Parser**	Chapter 6
13	10-5	Data Types **Submit a04** **Submit p04.1 – Pasm Scanner**	Chapter 6
14	10-10	Python Lecture (Read on your own time) **Submit a05**	Lecture notes
15	**10-12**	**Project p04.3 Overview – Graduate Students** **Submit p04.2 – Pasm Parser**	
16	10-17	Expressions and Assignment Statements **Submit p03 – Python Bracket Matching**	Chapter 7
17	10-19	Statement-Level Control Structures **Submit a06** **Submit p04.3 – Pasm Instructions**	Chapter 8
18	**10-24**	**Project p04: 4,5,6 Overview – Graduate Students**	
19	10-26	Subprograms **Submit a07**	Chapter 9
20	10-31	Subprograms **Submit p04.4 – Pasm Constants**	Chapter 9
21	11-2	Implementing Subprograms **Submit a08**	Chapter 10
22	11-7	Implementing Subprograms **Submit a09** **Submit p04.5 – Pasm Labels**	Chapter 10
Table 1. Lecture Schedule (Continued)			

Lecture	Date	Topic	Text
23	***11-9***	***Test 2***	***Chapters 5, 6, 7, and 8***
24	11-14	Test 2 Reprise **Project p04: 6 Overview – Graduate Students**	
25	11-16	Abstract Data Types and Encapsulation Constructs	Chapter 11
26	11-21	Abstract Data Types and Encapsulation Constructs **Submit r01**	Chapter 11
27	**11-28**	**Margin** **Submit a10**	
28	**11-30**	**Margin**	
29	**12-5**	**Margin** **Submit p04.6 – Pasm Binary File**	
30	**12-7**	**Margin** ***Summary Score Sheets via e-mail***	
31	***12-14***	***Final Exam, 5:30 – 7:20 p.m., Wednesday, December 14, 2022.***	

Table 2. Assignments

Assignment	Due	Value	Description
1	**8-24**	10	**a01**: Chapter 1 exercises
2	**8-31**	10	**a02**: Chapter 3 exercises
3	**9-12**	10	**a03:** Chapter 4 exercises
4	**10-5**	10	**a04**: Chapter 5 exercises
5	**10-10**	10	**a05**: Chapter 6 exercises
6	**10-19**	10	**a06**: Chapter 7 exercises
7	**10-26**	10	**a07**: Chapter 8 exercises
8	**11-2**	10	**a08**: Chapter 9 exercises
9	**11-7**	10	**a09**: Chapter 10 exercises
10	**11-28**	10	**a10:** Chapter 11 exercises
Total		**100**	

Table 4. Programming Projects			
Project	**Due**	**Value**	**Description**
1	**9-19**	50	**p01 – Subset Pascal Scanner**
2	**10-3**	50	**p02 – Subset Pascal Parser**
3	**10-17**	50	**p03 – Python Bracket Matching**
4	**10-5**	50	**p04.1 – Pasm Scanner**
4	**10-12**	50	**p04.2 – Pasm Parser**
4	**10-19**	50	**p04.3 – Pasm Instructions**
4	**10-31**	50	**p04.4 – Pasm Constants**
4	**11-7**	50	**p04.5 – Pasm Labels**
4	**12-5**	50	**p04.6 – Pasm Binary File**
Total		**450**	

Table 4. Reports			
Report	**Due**	**Value**	**Description**
1	**11-21**	50	**r01**: Library research
Total		**50**	

Assignment	**Due**	**Project**	**Due**	**Report**	**Due**	**Test**	**Due**
a01	**8-24**	p01	**9-19**	r01	**11-21**	t01	**9-26**
a02	**8-31**	p02	**10-3**			t02	**11-9**
a03	**9-12**	p03	**10-17**			t03	**12-14**
a04	**10-5**	p04.1	**10-5**				
a05	**10-10**	p04.2	**10-12**				
a06	**10-19**	p04.3	**10-19**				
a07	**10-26**	p04.4	**10-31**				
a08	**11-2**	p04.5	**11-7**				
a09	**11-7**	p04.6	**12-5**				
a10	**11-28**						