

CSC 442-M1/MG Principles of Programming Languages

Meets: MW 6:40-7:55 in E 134

Text: Sebasta, *Concepts of Programming Languages*, Fifth Edition; Addison-Wesley, 2002

Prerequisite: CSC 172 or equivalent (CSC 272 and an additional higher level programming language recommended).

Instructor: JM Dwyer, E 206, 993-1061, dwyerjm@udmercy.edu

Hours: MW 4:30-5:00, T 6:00-6:30 and by appointment

Course Description: This course examines the contributions of programming languages to artificial linguistics including basic programming structures; graphical and lexical definitions of language grammars; procedural, object-oriented, and other language designs; binding of variables and linking of program segments; and special purpose languages.

Course Objectives: At the completion of this course, the student will:

1. be better able to decide what languages are best for a specific task,
2. understand the historical issues involving program design,
3. be better prepared to learn additional programming languages, and
4. have gained an introduction to the major past and present languages.

IMPORTANT DATES: The following are some important dates. See the Winter 2002/2003 Schedule of Classes for a complete list.

1. Tests and final examination are as scheduled below.
2. F 01/31 – Last day to withdraw with no record
3. T 02/25 – Midterm grades due from instructors
4. F 03/28 – Last day to withdraw with a W

GRADING: The final grade will be based on two in-class tests worth 100 points each, a final worth 100 points, and three projects worth 100 points each. Those enrolled in the M1 section will choose any two of the three projects for a possible course total of 500. Those enrolled in the MG section will be required to do all three for a possible course total of 600. A tentative grading scale is:

For those enrolled in CSC 442-M1:

	B+	434-450	C+	384-400	D+	334-350	
A	468-500	B	418-433	C	368-383	D	301-333
A-	451-467	B-	401-417	C-	351-367	F	000-300

For those enrolled in CSC 442-MG:

	B+	521-540	C+	461-480	D+	401-420	
A	561-600	B	501-520	C	441-460	D	361-400
A-	541-560	B-	481-500	C-	421-440	F	000-360

If any changes to the grading scale are made, they will be to the advantage of the student.

MAKE-UP TESTS: Make-up tests and examination will only be given for documented, excusable absences beyond the control of the student.

ATTENDANCE: Attendance is required for all scheduled tests and examinations and for the first week of the term. All students will be held responsible for what transpires in class, including announcements as well as course material.

ACADEMIC INTEGRITY: Every student will be expected to follow the standards of academic integrity. Specifically, work claimed by the student should be done by the student. Work from other sources should be cited. For more on academic integrity and the consequences of violating it, see the E&S Student Handbook and the University of Detroit Mercy Undergraduate Catalog.

TENTATIVE SCHEDULE: The following schedule may vary by topic as the term progresses. Every reasonable effort will be made to hold the tests as scheduled.

<u>Week</u>	<u>Lecture</u>	<u>Reading due next Monday</u>
1/06-1/08	Intro., History of Computing	Chapter 1
1/13-1/15	HTML, High-Level Languages	
1/22	Structured Programs, Cloud	Chapter 2
1/27-1/29	BNF, Syntax Charts	Chapter 3, 4
2/03-2/05	Review, Test 1	Chapter 5
2/10-2/12	Fortran, Cobol	Chapter 6
2/17-2/19	Algol, Basic	Chapter 7, 8
2/24-2/26	PL/I, Pascal	
3/03-3/05	Spring Break	Chapter 9
3/10-3/12	C/C++, ADA	Chapter 10, 11
3/17-3/19	Review, Test 2	Chapter 12
3/24-3/26	AI Languages	Chapter 13, 14
3/31-4/02	Special Purpose Languages	Chapter 15
4/07-4/09	Internet Languages	Chapter 16
4/14-4/16	Language Design	(Projects due 4/14)
4/21	Final Exam -7:30-9:20	