

About the Introductory CMSC/CIS Courses

CMSC 100, CMSC 120, CMSC/CIS 180, & CMSC/CIS 200

The Computer Science and Information Systems Department has updated their curriculum during the 2002-2003 academic year. This brought changes within their introductory courses. This document distinguishes between the courses so that you may advise your students as to which course or courses may be the best for them.

Course Descriptions and Notes

CMSC 100. (3) Introduction to PC Software Applications. Introduction to the software applications of word processing, spreadsheet and database management using the Microsoft Office Suite for Windows. For non-majors. Prerequisite: None. Each semester.

Note: This course serves as general elective for all students who are interested in learning the major office software applications. This is NOT a core course or a majors course.

CMSC C120. (3) Problem Solving with Computers. Intended for all students, without any previous programming experience, who need to gather/generate, analyze/process and display/graph data. Students will be introduced to a programming language (Visual Basic) and spreadsheets (Microsoft Excel). A strong emphasis will be placed on using the computer as a tool to implement problem-solving techniques. For non-majors. Prerequisite: None. Each semester.

Note: This is NOT a required course for Computer Science majors. Computer Science majors normally will NOT take this course. Computer Science majors must take CMSC 180. CMSC 120 is a core course for non-majors who would like to learn about problem solving and tools to solve problems. This course would be appropriate for social science, humanities, and business majors.

CMSC C180. (4) Introduction to Computer Science. Techniques and theory of computer science in a rapidly changing technical environment. Technology topics include hardware, software, communications, databases, emerging technologies, Internet and intranet. Information systems topics include information processing concepts and functional systems used in business. Provides programming fundamentals, with applications developed in a high-level language. Programming topics include variables, formatted input/output, arrays, looping, conditional execution, subroutines and functions. Prerequisites: None. Each semester.

CIS C180. (4) Introduction to Information Systems. Techniques and theory of information systems in a rapidly changing technical environment. Technology topics include hardware, software, communications, databases, emerging technologies, Internet and intranet. Information systems topics include information processing concepts and functional systems used in business. Provides programming fundamentals, with applications developed in a high-level language. Programming topics include variables, formatted input/output, arrays, looping, conditional execution, subroutines and functions. Prerequisites: None. Each semester.

Note: CMSC 180 and CIS 180 are the same course and are cross-listed in the course schedule. This course is required for a Computer Science or Information Systems major and is the starting point for both majors. This course is also a core course for non-majors who would like to learn about computer systems and programming in a popular language, with some but not much technical rigor. This course would be appropriate for business and science majors.

CMSC/CIS 200. (4) Computer Programming. An introduction to software design, algorithm development and implementation with the C++ programming language. Elementary programming structures, functions, and text and file processing. Functional and object-oriented design and programming, real world and application modeling, testing and debugging. Prerequisite: CMSC-C180, MATH 105 or 110. Each semester.

Note: This is a required course for a Computer Science or Information Systems major and has prerequisites of CMSC/CIS 180 and MATH 105 or 110. Non-majors would normally not take this course unless their program requires it. This is a fairly technical programming course, building upon the programming learned in CMSC/CIS 180.

Computer Science Majors

Guidelines for Registration

Initial MATH Course

If the student

*** PLACED INTO MATH 095

- Register the student for MATH 095.
- It may take the student more than four years to complete the CMSC degree.

*Sem. 1	Sem. 2	Sem. 3	Sem. 4	Summer	Sem. 5	Sem. 6
MATH 095	MATH 110	MATH 115	MATH 240		MGT 150	
	CMSC 180	CMSC 200	CMSC 205	CMSC 274		CMSC270
		CMSC 220				

*** PLACED INTO MATH 110

- Register the student for MATH 110 and CMSC 180.

*Sem. 1	Sem. 2	Sem. 3	Sem. 4
MATH 110	MATH 115	MATH 240	MGT 150
CMSC 180	CMSC 200	CMSC 205	CMSC 270
		CMSC 220	CMSC 274

*** PLACED INTO MATH 111

- Register the student for MATH 111 and CMSC 180.

*Sem. 1	Sem. 2	Sem. 3	Sem. 4
MATH 111	MATH 240	MATH 170	MATH 200
CMSC 180	CMSC 200	CMSC 205	CMSC 270
		CMSC 220	CMSC 274

*** PLACED INTO MATH 170

- Register the student for MATH 170 and CMSC 180.

*Sem. 1	Sem. 2	Sem. 3	Sem. 4
MATH 170	MATH 200	MATH 240	
CMSC 180	CMSC 200	CMSC 205	CMSC 270
		CMSC 220	CMSC 274

*Semester by semester recommended schedule for CMSC and computational courses for this MATH placement.

***** PLACED INTO MATH 210**

- Register the student for MATH 210 and CMSC 180.

*Sem. 1	Sem. 2	Sem. 3	Sem. 4
MATH 210	MATH 211	MATH 240	
CMSC 180	CMSC 200	CMSC 205	CMSC 270
		CMSC 220	CMSC 274

***** PLACED INTO MATH 211**

- Register the student for MATH 211 and CMSC 180.

*Sem. 1	Sem. 2	Sem. 3	Sem. 4
MATH 211	MATH 240		
CMSC 180	CMSC 200	CMSC 205	CMSC 270
		CMSC 220	CMSC 274

*Semester by semester recommended schedule for CMSC and computational courses for this MATH placement.

Computer Information Systems Majors

Guidelines for Registration Initial MATH Course

If the student

*** PLACED INTO MATH 095

- Register the student for MATH 095.
- It may take the student more than four years to complete the CIS degree.

*Sem. 1	Sem. 2	Sem. 3	Sem. 4	Summer	Sem. 5
MATH 095	MATH 105	MATH 115	MATH 240		MGT 150
	CIS 180	CIS 200	CIS 205	CIS 274	
		CIS 220			

*** PLACED INTO MATH 105 OR MATH 110

- Register the student for MATH 105 and CIS 180.

*Sem. 1	Sem. 2	Sem. 3	Sem. 4
MATH 105	MATH 115	MATH 240	MGT 150
CIS 180	CIS 200	CIS 205	CIS 274
		CIS 220	

*** PLACED INTO MATH 115, MATH 170 or MATH 210

- Register the student for MATH 115 and CIS 180.

*Sem. 1	Sem. 2	Sem. 3	Sem. 4
MATH 115	MATH 240	MGT 150	
CIS 180	CIS 200	CIS 205	CIS 274
		CIS 220	

*** PLACED INTO MATH 211

- Register the student for MATH 211 and CIS 180.

*Sem. 1	Sem. 2	Sem. 3	Sem. 4
MATH 211	MATH 240	MGT 150	
CIS 180	CIS 200	CIS 205	CIS 274
		CIS 220	

*Semester by semester recommended schedule for CMSC and computational courses for this MATH placement.