

To: Computer Science Majors  
 From: The Computer Science Department, Moorpark College  
 Re: Computer Science Courses Required for your Major

The following computer science courses are required for C.S. majors planning to transfer.

- CS M10A** Introduction to Computer Programming Using Structured C++ (4 units)
- CS M10B** Object-Oriented Programming Using C++ (4 units)
- CS M20** Object-Oriented Data Structure and Algorithm Design (4 units)
- CS M30** Intro. to Computer Systems (w/assembly language programming) (4 units)
- CS M40** Computer Organization (3 units)
- Math M21** Discrete Mathematics (3 units)

CS M10J Introduction to Computer Programming Using Java (4 units) is an elective course which may be required by your transfer institution. CS M10J may be taken at any time, however, the department recommends that this course be taken after CSM10A.

Due to budget constraints and other factors CS M20, CS M30, and CS M40 will only be offered either in the Fall semester or Spring semester, but not both semesters. CS M10A, CS M10B, and CS M10J are offered every semester. Math M21 is offered on a two year cycle and will be taught in Spring 2013.

In the chart below, a check mark (✓) indicates that the course will be offered during that semester. Unchecked areas indicate that the course will not be offered. In order for freshman students to complete the C.S. transfer degree within the two year cycle, CS M10A must be taken in Fall 2011. The gray boxes marked below show which major courses should be taken over the next four semesters. The pre-requisite course or recommended preparation is listed in the rightmost column.

Major's Courses	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Pre-req.
<b>CS M10A</b>	✓	✓	✓	✓	<i>Math M07**</i>
<b>CS M10B</b>	✓	✓	✓	✓	<i>CS M10A</i>
<b>CS M20</b>	✓■		✓		<i>CS M10B</i>
<b>CS M30</b>	✓■		✓		<i>CS M20*</i>
<b>CS M40</b>		✓■		✓	<i>CS M30</i>
<b>Math M21</b>				✓	<i>Math M25A</i>
CS M10J	✓	✓	✓	✓	<i>Math M07**</i>

\* CS M20 and CS M30 may be taken concurrently.

\*\*Math M07 - College Algebra and Trigonometry (5 units) is the recommended prep for CS M10A and CS M10J. Or Math M06 Trigonometry (3 units)

Math M25A - Calculus with Analytic Geometry I (5 units)

Sophomore level students should have completed CS M10A, CS M10B, and Math M21 as of Spring 2011. The square symbol (■) represents courses needed to complete the transfer degree.

See the Moorpark College Catalog for descriptions of these courses. Check with your transfer institution and the M. C. Counseling Department for additional requirements for the C.S. transfer degree.