

IT IS IMPORTANT TO SEE AN M.C.C. COUNSELOR EACH SEMESTER FOR ACADEMIC ADVISING. TO SCHEDULE AN APPOINTMENT CALL (231) 777-0362.

Muskegon Community College Curriculum Guide

Curriculum: COMPUTER SCIENCE – CENTRAL MICHIGAN UNIVERSITY

Curriculum Code: C06

The following courses will fulfill requirements for the Associate in Science and Arts Degree. It is designed for students who plan to transfer to C.M.U. and major in Computer Science after completing the A.S.A. degree at M.C.C.

<b>REQUIRED FOUNDATIONAL SKILLS – You must demonstrate a minimum level of achievement, either by successful testing or satisfactory course completion (a grade of “C” or better) in four areas:</b>	
1. Writing	English 085, 089, 091 or 114
2. Reading	Reading 040A or 040C
3. Math	Mathematics 50 or 107 (or complete higher level course)
4. Computers	CIS 100 or any other CIS course (Consult a counselor regarding transferability. CIS 110 or 120A is strongly recommended.)
<p>English, Reading and Mathematics Placement Tests may be required and are available in the Testing Center, located in Room 134 – 777-0394. English and Reading placement tests may be waived if you show documentation of a proficiency level 1 or 2 on the high school MEAP writing and reading tests or if you have an ACT composite score of 22 or greater. The Mathematics placement test may be waived if you show documentation of a score of 28 or above on the ACT Math test.</p>	

**MINIMUM CREDITS**

**GENERAL EDUCATION**  
**COMMUNICATION**

English 101 and 102 English Composition 6

**SCIENCE/MATH**

Courses must be taken in more than one academic area. Must include at least 4 credits of lab science. 8

Lab Science options:

Biology 100 (10A, B, C, D, E, F, G, H, J), 103 L&L, 104 L&L, 105 L&L, 106 L&L, 109, 110, 120, 122, 207 L&L

!!! Chemistry 100 L&L, 101 L&L, 102 L&L, 109 L&L, 120 L&L, 130 L&L, 201 L&L, 202 L&L

Geography 101A, 215

Geology 101A, 102

Physical Science 101A

Physics 201, 202, 203, 204

**(Biology 100 modules are no longer being offered.)**

Non-lab options:

Anthropology 105

Astronomy 101, 105A (same course as Physics 105A)

Biology 200, 207 – lecture only

Geography 101

Mathematics 105, 107, 109, 111, 112, 115 (or Business 105), 151, 161, 162, 215, 274, 283, 295

Physics 105A (same course as Astronomy 105A)

!!! Chemistry Placement Test is required prior to taking Chemistry 101 L&L.

**THE HUMAN EXPERIENCE**

**AESTHETIC VALUES**

Art 101, 104, 105B (was 105), 107, 108, 109, 204B (was 204), 205, 207, 208, 209, 211

Dance 100, 101, 102, 106, 200, 201, 213, 218

English 208 (or Communications 203), 223

Music – any 100 level or above course

Theater 101, 102, 108, 120, 141, 142, 144, 145, 147, 148, 160, 201, 202, 203, 210, 212, 217, 260

3

	<u>MINIMUM CREDITS</u>
<b><u>ETHICS AND LOGIC</u></b>	3
Philosophy 101 (taken Fall 2000 or later), 102, 104, 202, 204, 205, 207	
<b><u>SOCIAL RELATIONSHIPS</u></b>	3
Economics 101, 102, 130	
Psychology 102, 201, 202, 203, 210 (same course as Sociology 210)	
Sociology 101, 102, 202, 203, 206, 210 (same course as Psychology 210)	
Women's Studies 101	
<b><u>HUMAN CULTURES</u></b>	
<b><u>WESTERN WORLD</u></b>	3
Art 198, 199, 202	
English 200, 201, 204, 205, 206, 210, 213, 225, 226, 227, 228	
History 101, 102, 204	
Humanities 195	
Music 103	
Philosophy 101 (taken prior to Fall 2000)	
Political Science 203	
Theater 201	
<b><u>AMERICAN</u></b>	3
History 201, 202, 207, 211, 220	
Political Science 111, 205, 220	
<b><u>INTERNATIONAL</u></b>	3
If the credit hours from AMERICAN CULTURES and SOCIAL RELATIONSHIPS total less than 8 credits, the choices are:	
Anthropology 103, 110	
Geography 102C (was 102A), 105	
Political Science 202, 210, 211	
If the credit hours from AMERICAN CULTURES and SOCIAL RELATIONSHIPS total 8 credits or more, then <u>other</u> options are:	
English 207, 211, 218	
French 101, 102, 201, 202	
German 101, 102, 201, 202	
History 210	
Philosophy 203, 210	
Spanish 101, 102, 201, 202	
<b><u>PHYSICAL EDUCATION</u></b>	2
Choose one from PEA 101A, 103, 104A, 118, or 201 <b>and</b> one PEA or DNC credit hour of choice.	
<b><u>C.M.U. COMPETENCY REQUIREMENT</u></b>	
Communications 101 Oral Communications	3
or	
Communications 210 Introduction to Debate (if available)	3
<b><u>MAJOR RELATED COURSES</u></b>	
Mathematics 161 Calculus I	4
Mathematics 274 Linear Algebra and Matrices	2
Mathematics 215 Probability and Statistics for Engineering	3
CIS 195 Assembler Programming (prerequisites: CIS 120A and a programming course or instructor permission)	3
<b><u>ELECTIVE(S)</u></b>	variable
<b>TOTAL</b>	<b>62</b>

NOTE:

In order to satisfy the University Program General Education Requirements area at C.M.U., your final community college transcript must be stamped MACRAO Agreement Satisfied.

A second part of C.M.U.'s General Education Requirements includes three basic competencies which can be satisfied at M.C.C. before transferring to C.M.U. by passing the following courses with a grade of "C" or better: English 101 and 102, Communications 101 or 210, and Mathematics 50 or above (except Mathematics 105). C.M.U. requires these competencies to be fulfilled within the first 56 credit hours.

Transfer students should normally have a minimum G.P.A. of 2.5 prior to transferring to C.M.U. For further information contact the Admissions Office at C.M.U.

Students should check the M.C.C. catalog for course prerequisites.

It is recommended that Computer Science majors become familiar with the Computer Science section in the C.M.U. Bulletin found at <https://bulletins.cmich.edu>.