

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 AND INFORMATION SYSTEMS – GRAND VALLEY STATE UNIVERSITY

Curriculum Code: G06

G.V.S.U. offers a Computer Science major and an Information Systems major.

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

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:	
1. Writing	English 085, 089, 091 or 114
2. Reading	Reading 040A or 040C
3. Math	Mathematics 050 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 are strongly recommended.)
<p>English, Reading and Mathematics Placement Tests may be required and are available in Testing Services, 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 or MME 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>	

GENERAL EDUCATION
COMMUNICATION

MINIMUM CREDITS

English 101 and 102 English Composition 6

SCIENCE/MATH

8

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

Lab Science options:

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

!!! Chemistry 100Lec & 100A, 101Lec & 101A, 102Lec & 102A, 109Lec & 109A, 120Lec & 120A, 130Lec & 130A, 201E & 201F, 202 F & 202G

Geography 101A, 215

Geology 101A, 102

Physical Science 101A

Physics 201L&L, 202L&L, 203L&L, 204L&L

(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, 276, 283, 295

Physics 105A (same course as Astronomy 105A)

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

MINIMUM CREDITS

THE HUMAN EXPERIENCE

AESTHETIC VALUES

3

Art 104, 105B (was 105), 107, 108, 109, 204B (was 204), 205, 207, 208, 209, 211
Dance 100, 101, 102, 106, 200, 201, 206, 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

ETHICS AND LOGIC

3

Philosophy 101, 102, 104, 202, 204, 205, 207

SOCIAL RELATIONSHIPS

3

Economics 101, 102, 130
Psychology 102, 201, 202, 203, 205A, 207, 208, 210 (same as Sociology 210)
Sociology 101, 102, 202, 203, 206, 210 (same as Psychology 210)
Women's Studies 101

HUMAN CULTURES

WESTERN WORLD

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
Political Science 203
Theater 201

AMERICAN

3

History 201, 202, 207, 211
Political Science 111, 205

INTERNATIONAL

3

If the credit hours from AMERICAN CULTURES and SOCIAL RELATIONSHIPS total less than 8 credits, the choices are:

Anthropology 103, 110
Geography 104 (was 102A, 102C), 105
History 195
Political Science 202, 211

If the credit hours from AMERICAN CULTURES and SOCIAL RELATIONSHIPS total 8 credits or more, then other 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

PHYSICAL EDUCATION

2

Choose one from PEA 101A, 103, 104A, 118, or 201 **and** one PEA or DNC credit hour of choice.

CHOOSE FROM THE FOLLOWING FOR A TOTAL OF 62 CREDITS

ADDITIONAL G.V.S.U. GENERAL EDUCATION REQUIREMENTS

Choose one course from the following if not taken to fulfill a general education requirement: 0-4

Anthropology 110; English 211; Foreign Language 202; Geography 105; Philosophy 210;
Political Science 211

Choose one course from the following if not taken to fulfill a general education requirement: 0-3

Anthropology 103; Sociology 102, 202

MINIMUM CREDITS**MAJOR RELATED COURSES** – All majors should complete:

CIS 120A Introduction to Computer Information Systems (not required for G.V.S.U. Computer Science majors but is required for Information Systems majors and is a M.C.C. prerequisite)	3
Mathematics 115 Probability & Statistics (other option available at G.V.S.U.)	3
<u>or</u>	
Business 105 Business Statistics (other option available at G.V.S.U.)	3
CIS 280 Java Programming (prerequisite: CIS 185)	3
Communications 101 Oral Communications	3
<u>or</u>	
Communications 201 Public Speaking	3

ADDITIONAL COURSES**Information Systems**

BCOM 101 Business and Technical Communications	3
Business 101 & 102 Principles of Accounting I & II	8
Business 122 Principles of Management	3
Business 123 Business Law	3
Business 260 Principles of Marketing	3
Economics 101 <u>or</u> 102 Principles of Economics (if not taken to fulfill general education req.)	4
CIS 210 Operating Systems Concepts	3
CIS 283 Advanced Local Area Network Administration (prerequisite: CIS 143)	3
Mathematics 109 <u>or</u> 111 College Algebra	4

Computer Science

BCOM 101 Business and Technical Communications	3
Mathematics 161 Calculus I	4
Mathematics 162 Calculus II	3
CIS 250 Developing Information Systems	3
Biology 103Lec & 103A and 104Lec & 104A Introductory Biology, Lec & Lab	8
<u>or</u>	
Chemistry 101Lec & 101A and 102Lec & 102A General and Inorganic Chemistry, Lec & Lab (prereq.: Chemistry 100Lec & 100A or Chemistry placement test)	10
<u>or</u>	
Physics 201L&L and 202L&L Principles of Physics, Lec & Lab	8
<u>or</u>	
Physics 203L&L and 204L&L Engineering Physics, Lec & Lab	10

COGNATE REQUIREMENTS

B.A. – Foreign Language – third-semester proficiency	0-12
B.S. – Zero to two additional courses at G.V.S.U. depending on major.	

ELECTIVE

variable

 TOTAL 62

NOTES:

*G.V.S.U. awards the same equivalency credit for M.C.C.'s History 102 and 210. Students are advised not to take both courses at M.C.C. if they wish to transfer to G.V.S.U.

Transfer students are required to have a minimum transfer GPA of 2.5.

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

It is recommended that Computer Science and Information Systems majors become familiar with the Computer Science and Information Systems sections in the G.V.S.U. catalog; copies are available in Room 1106 in the Stevenson Center for Higher Education.

The information contained in this curriculum guide is accurate as of February 2011 and is subject to change by both institutions.