

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: ENGINEERING – B.S.E. – GRAND VALLEY STATE UNIVERSITY

Curriculum Code: G10

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 Engineering 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>	

MINIMUM CREDITS

GENERAL EDUCATION
COMMUNICATION

English 101 and 102 English Composition 6

SCIENCE/MATH

Chemistry 101 Lec & 101A General & Inorganic, Lec & Lab 5
 Mathematics 161 Calculus I 4

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

THE HUMAN EXPERIENCE

AESTHETIC VALUES

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 3

ETHICS AND LOGIC

Philosophy 202 Introduction to Ethics (recommended) 3
or
 Philosophy 205 Business Ethics 3
or
 Philosophy 204 Biomedical Ethics 3
or
 Philosophy 207 Environmental Ethics 3

SOCIAL RELATIONSHIPS

Economics 101 or 102 Principles of Economics (other option available at G.V.S.U.) 4

MINIMUM CREDITS

HUMAN CULTURES

WESTERN WORLD

Art 198, 199, 202
English 200, 201, 204, 205, 206, 210, 213, 225, 226
History 101, *102, 204
Humanities 195
Music 103
Political Science 203
Theater 201

3

AMERICAN

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

3

INTERNATIONAL

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

3

PHYSICAL EDUCATION

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

2

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

0-4

Choose one course from the following if not taken to fulfill a general education requirement:
Anthropology 103; Sociology 102, 202

0-3

MAJOR RELATED COURSES

Mathematics 162 Calculus II
Mathematics 283 Calculus III
Mathematics 295 Differential Equations with Linear Algebra
Physics 203L&L Engineering Physics, Lec and Lab
Physics 204L&L Engineering Physics, Lec and Lab (other option available at G.V.S.U.)

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REQUIRED COURSES (If time permits)

Biology 103 Lec & 103A Introductory Biology, Lec & Lab
or
Biology 100 (10A,F,G,H) or (10A,E,F,G) Introductory Biology
or
Biology 110 Environmental Science
(Biology 100 modules are no longer being offered.)

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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.

After the student receives the A.S.A. at M.C.C. and transfers, the Bachelor of Science in Engineering program at G.V.S.U. involves full-time participation for a minimum of the next nine continuous semesters (36+ months): six academic and at least three cooperative engineering semesters. This time period all depends on what coursework has been completed and what semester the student transfers. G.V.S.U.'s Engineering program is industry-oriented and lab based with integrated co-ops in the Junior and Senior years. After transfer from M.C.C. students complete additional freshman and sophomore engineering courses in Grand Rapids that are not available at M.C.C. The Engineering program is taught on the Grand Rapids campus. Students should contact the G.V.S.U. School of Engineering as soon as possible to determine the best semester in which to transfer as it may be a summer semester.

<http://www.gvsu.edu/engineering>
ph: 616-331-6750
fax: 616-331-6215

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

It is recommended that Engineering majors become familiar with the Engineering section in the G.V.S.U. catalog; copies are available in Room 1106 in the Stevenson Center for Higher Education.