

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: PHYSICS – GRAND VALLEY STATE UNIVERSITY

Curriculum Code: G20D

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 Physics 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.)

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.

<u>GENERAL EDUCATION</u>	<u>MINIMUM CREDITS</u>
<u>COMMUNICATION</u>	
English 101 and 102 English Composition	6
<u>SCIENCE/MATH</u>	
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.	
<u>THE HUMAN EXPERIENCE</u>	
<u>AESTHETIC VALUES</u>	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	
<u>ETHICS AND LOGIC</u>	3
Philosophy 101, 102, 104, 202, 204, 205, 207	
<u>SOCIAL RELATIONSHIPS</u>	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	
(Psychology 201 is required for students seeking teacher certification.)	

MINIMUM CREDITS

HUMAN CULTURES

WESTERN WORLD

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

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 (not required for teacher preparation):

0-3

: Anthropology 103; Sociology 102, 202

MAJOR RELATED COURSES

Physics 203L&L, 204L&L Engineering Physics, Lec and Lab
Mathematics 162, 283 Calculus II, III
Mathematics 276 (replaces Math 274) Linear Algebra with Applications
Mathematics 295 Differential Equations with Linear Algebra
Astronomy 101 General Astronomy (other options available at G.V.S.U.)

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COGNATE REQUIREMENTS

B.S. – Fulfilled with major requirements.

ADDITIONAL REQUIREMENTS FOR TEACHER CERTIFICATION

Education 225 Child Development
Astronomy 101 General Astronomy
Philosophy 204 Biomedical Ethics
or
Philosophy 207 Environmental Ethics

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MINIMUM CREDITS

Choose one from:

Biology 103 Lec & 103A; Biology 100 (10A,E,F,G); Biology 100 (10A,F,G,H)
(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.

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

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