

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: BIOLOGY/BIOMEDICAL SCIENCES – WESTERN MICHIGAN UNIVERSITY Curriculum Code: W04A

The following courses will fulfill requirements for the Associate in Science and Arts Degree. It is designed for students who plan to transfer to W.M.U. and major in Biology 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>	
Biology 104Lec & 104A Introductory Biology, Lec and Lab	4
Chemistry 101Lec & 101A General & Inorganic, Lec and Lab (prerequisite: Mathematics 109 or 111)	5
Chemistry Placement Test is required prior to taking Chemistry 101Lec & 101A.	
<u>THE HUMAN EXPERIENCE</u>	
<u>AESTHETIC VALUES</u>	3
Art 101, 104, 105B (was 105), 107, 108, 109, 204B (was 204), 205, 207, 208, 209, 211	
Dance 100, 101, 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, 144, 145, 147, 148, 160, 201, 203, 210, 212, 217, 260	
<u>ETHICS AND LOGIC</u>	3
Philosophy 101, 102, 104, 202, 204, 205	
(Philosophy 204 will satisfy a 300-level general education requirement at W.M.U.)	
<u>SOCIAL RELATIONSHIPS</u>	3
Economics 101, 102, 130	
Psychology 102, 201, 202, 203, 205A	
Sociology 101, 102, 202, 203, 206	
Women’s Studies 101	

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, 220
 Political Science 111, 205, 220

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, 210, 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
 (History 210 will satisfy a 300-level general education requirement at W.M.U.)

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**W.M.U. COLLEGE OF ARTS AND SCIENCES REQUIREMENT**

*Foreign Language through 102 – if time permits

0-8

MAJOR RELATED COURSES

Biology 105Lec & 105C Anatomy & Physiology I, Lec and Lab (Biomedical Science Major) 4
 Biology 106Lec & 106A Anatomy & Physiology II, Lec and Lab (M.C.C. prerequisites: Biology 105Lec & 105C) (optional for Sec. Ed. majors) 4
 Biology 207Lec & 207A Microbiology, Lec and Lab (M.C.C. prerequisites: Biology 105Lec & 105C or instructor permission) (optional for Sec. Ed. majors) 4
 Chemistry 102Lec & 102A General & Inorganic, Lec and Lab 5
 Chemistry 201E & 201F and 202F & 202G Organic, Lec and Lab (req. for Biomedical Science major; Biology and Sec. Ed. majors have the option of one course at W.M.U. Consult a W.M.U. advisor before taking Chemistry 202F and 202G if you intend to minor in Chemistry.) 10
 Mathematics 115 Probability and Statistics (other option is available at W.M.U.) 3
 Mathematics 151 Survey of Calculus 4
 or
 Mathematics 161 Calculus I 4
 Physics 201L&L, 202L&L Principles of Physics, Lec and Lab (M.C.C. prerequisite: Mathematics 112) 8
 Geology 101A Introduction to Physical Geology (recommended for graduate work) 4

ELECTIVE(S)

 TOTAL 62

NOTES:

*Students are required to complete the College of Arts and Sciences' foreign language requirement by 1) completing the second semester (102) of college level study of a foreign language with a minimum "C" grade, 2) demonstrating completion of at least two years of any one foreign language in high school with a grade of 'B-' or better for the last semester of the second year, or 3) attaining an appropriate score on W.M.U.'s proctored foreign language proficiency examination.

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

It is recommended that Biology majors become familiar with the Biology section in the W.M.U. catalog available on-line at www.wmich.edu/catalog.