

**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 – WESTERN MICHIGAN UNIVERSITY**

**Curriculum Code: W10**

This guide is appropriate for those students planning to transfer to W.M.U. into the fields of Aeronautical, Chemical, Civil, Computer, Construction, Electrical, Industrial and Entrepreneurial, Mechanical, and Paper Engineering. A separate curriculum guide (W10M) is available for Manufacturing Engineering taught at the Stevenson Center for Higher Education in Muskegon. It is not designed to obtain an A.S.A. degree from M.C.C. If you wish to fulfill the requirements for the A.S.A. degree, consult with a counselor.

### CREDIT HOURS

English 101 English Composition <u>or</u> BCOM 101 Business and Technical Communications	3
Chemistry 101Lec & 101A General & Inorganic, Lec and Lab	5
Chemistry 102Lec & 102A General & Inorganic, Lec and Lab (1)	5
Chemistry 201E & 201F Organic Chemistry, Lec and Lab (2)	5
Chemistry 202F & 202G Organic Chemistry, Lec and Lab (3)	5
Mathematics 161 Calculus I	4
Mathematics 162 Calculus II	3
Mathematics 215 Probability and Statistics for Engineering (4)	3
Mathematics 283 Calculus III	4
Mathematics 295 Differential Equations w/Linear Algebra	4
Physics 203L&L, 204L&L Engineering Physics, Lec and Lab	10
Engineering 202 Statics (5)	3
Engineering 204 Engineering Dynamics (6)	3
CAD 110 Introduction to Computer-Aided Drafting (prerequisite: CAD 100 or equivalent) (7)	3
Health Education 106 Concepts of Health and Well-being	3
Business 101 Principles of Accounting (8)	4
Business 127 Human Relations (8)	3
CIS 163VB Visual Basic for Applications (prerequisite: CIS 100) (9)	1
<u>or</u>	
CIS 185 “C” Programming (prerequisite: CIS 120A) (9)	3
Geology 101A Introduction to Physical Geology (10)	4

Choose one course from each of the following groupings. Students are advised not to take more than one course from a specific subject matter area. (11)(12)

AREA I - Art 101, 198, 199; English 102, 204, 205, 206, 208; Humanities 195; Music 103; Theater 101, 201

AREA II - Education 230; English 200, 201, 211, 213, 225, 226; History 101, 102; Philosophy 101, 202, 203, 205, 210

AREAS III, IV, V – English 207; History 201, 202, 204, 207, 210 (will fulfill a 300-level general education requirement at WM.U.), 211, 220; Political Science 111, 202, 203, 211, 220; Sociology 101, 102, 202; Anthropology 103, 105, 110; Business 121; Economics 101, 102; Geography 104 (was 102A, 102C), 105; Psychology 201; Women’s Studies 101.

### FOOTNOTES

- (1) Required for Chemical and Paper; optional for Aeronautical (lecture only), Electrical and Mechanical.
- (2) Required for Chemical and Paper.
- (3) Required for Chemical.
- (4) Required for Chemical, Civil, Construction, Industrial and Entrepreneurial and Paper.
- (5) Required for Aeronautical, Civil, Construction, Electrical, Industrial and Entrepreneurial and Mechanical; approved ME science elective for Computer.
- (6) Required for Aeronautical, Civil, Construction, Electrical and Mechanical.
- (7) Required for Aeronautical, Civil, Construction, Electrical, Industrial and Entrepreneurial and Mechanical.
- (8) Required for Construction.
- (9) Required for Aeronautical and Mechanical.
- (10) Required for Civil and Construction.
- (11) Economics 102 is required for Civil, Chemical, Industrial, Paper and Construction.
- (12) Civil and Construction Engineering students should wait to take the Area II requirement at W.M.U.

## NOTES:

English, Reading, Mathematics and Chemistry 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.

At present there are no quotas for those being accepted though students must receive a minimum of “C” or better in all math, chemistry, physics, college writing, and general education courses. Transfer can be done after one or two years.

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 W.M.U. catalog available on-line at [www.wmich.edu/catalog](http://www.wmich.edu/catalog).