

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 – MICHIGAN TECHNOLOGICAL UNIVERSITY

Curriculum Code: T10

Majors: Biomedical, Chemical, Civil, Computer, Electrical, Environmental, Geological, Materials Science, and Mechanical

The following are courses recommended by M.T.U. They are not designed to obtain a degree from M.C.C. Outlined are the common core courses for all Engineering majors. See below for additional courses and notes for specific engineering majors.

CREDIT HRS.

Mathematics 161, 162 Calculus I, II	7
Mathematics 283 Calculus III (not required for Computer Engineering)	4
Mathematics 295 Differential Equations with Linear Algebra	4
Chemistry 101Lec & 101A General & Inorganic, Lec & Lab	5
Physics 203L&L, 204L&L Engineering Physics, Lec & Lab (Physics 204L&L is optional for Environmental and Biomedical Engineering)	10
CIS 185 "C" Programming	3
Choose one course from: CAD 110, 210, 250	3
Physical Education Activity	3

General Education Requirements - Choose from the following, up to 25 credit hours (Electrical Engineering may take up to 28 credit hours):
(at least 3 (6 for Electrical Engineering) credits must be equivalent to junior or senior level courses – comparable courses at M.C.C. are designated with a *)

English 101, 102 English Composition	6
Choose one course from: Economics 101, 102 Political Science 111 Sociology 101	3-4
Choose one course from: Anthropology 103, 110 Geography 104 (was 102A, 102C) History 101, 102, 210	3-4

The remaining credits can be chosen from:

- Anthropology 103 (if not chosen above), 105, 110 (if not chosen above)
- Art 198, 199, 202
- Communications 101, 102, *107, 201, 203 (same as English 208)
- Economics 101 (if not chosen above), 102 (if not chosen above)
- English 200, 201, 204, 205, 206, 208 (same as Communications 203), 211, 213, 218, 222, 225, 226, 227, 228
- Foreign Language 101, 102, *201, *202
- Geography 101A, 104 (was 102A, 102C) (if not chosen above)
- History 101 (if not chosen above), 102 (if not chosen above), 201, *202, 204, 207, 210 (if not chosen above), *211, 220
- Humanities 195
- Music 103
- Philosophy 101, 102, 104, 202, 203, 204, 205, 207, 210
- Political Science 111 (if not chosen above), 112A, 202, 203, 205, 211, 220
- Psychology 102, 201, 202, 203
- Sociology 101 (if not chosen above), 102, 202
- Theater 101, 108, 201
- Up to 3 credits of the following may be taken – Art 104, 107, 204B (was 204), 207; Music 104CS, 105CS, 109CB, 118WSO; Theater 102, 120, 141, 142, 144, 145, 147, 148, 160, 202, 203, 210, 212, 217.

ADDITIONAL COURSES**BIOMEDICAL**

Biology 105L&L, 106L&L Anatomy & Physiology I, II, Lec & Lab	8
Engineering 202 Statics	3
Chemistry 102Lec & 102A General & Inorganic, Lec & Lab	5
Mathematics 215 Probability and Statistics for Engineering	3

CHEMICAL

Chemistry 102Lec & 102A General & Inorganic, Lec & Lab	5
Chemistry 201E & 201F, 202F & 202G Organic, Lec & Lab	10

CIVIL

Engineering 202 Statics	3
Geology 101A Introduction to Geology	4
Mathematics 215 Probability and Statistics for Engineering	3

COMPUTER

CIS 280 Java Programming (prerequisite: CIS 185)	3
Mathematics 215 Probability and Statistics for Engineering	3

ELECTRICAL

CIS 280 Java Programming (prerequisite: CIS 185)	3
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ENVIRONMENTAL

Geology 101A Introduction to Geology	4
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GEOLOGICAL

Geology 101A Introduction to Geology	4
Mathematics 215 Probability and Statistics for Engineering	3

MATERIALS SCIENCE

Chemistry 102Lec & 102A General & Inorganic, Lec & Lab	5
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MECHANICAL

Engineering 202 Statics	3
Engineering 204 Engineering Dynamics	3
Mathematics 215 Probability and Statistics for Engineering	3

NOTE:

English, Reading, Chemistry, and Mathematics Placement Tests may be required and are available in Testing Services, located in Room 134 or call (231)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.

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

Students desiring an Associate Degree from M.C.C. should consult a counselor.

Chemical, Electrical and Computer Engineering students wishing to finish at M.T.U. in 2 years should transfer the summer prior to the Junior year.

All recommended courses will transfer and apply towards degree requirements provided grades of "C" (2.0 on a 4.0 scale) or better are earned. It is not required that students complete all recommended courses prior to enrolling at Michigan Tech. There are no minimum or maximum credit restrictions in effect for transfer students. There is a residency requirement of one year for all students. Qualified students will be accepted any time they choose to apply regardless of the number of courses completed provided openings exist in their requested program.

It is recommended that Engineering majors become familiar with the Engineering section in the M.T.U. catalog.

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