



MACOMB COMMUNITY COLLEGE EQUIVALENCY GUIDE COLLEGE OF ENGINEERING AND SCIENCE MANUFACTURING ENGINEERING PROGRAM

Entrance Requirements: Minimum 2.50 GPA based on at least 24 semester hours of credit. If less than 24 credits have been taken, high school transcripts are required.

The following courses will transfer into the UDM Manufacturing Engineering program. A general guide is also available for Civil/Environmental, Electrical/Computer and Mechanical Engineering. According to transfer policy, additional courses not on this guide may also be transferable.

To arrange a campus visit, contact an Admissions Counselor at 313-993-1245, 800-635-5020 or admissions@udmercy.edu. In order to determine when you may begin the cooperative education program, contact Carolyn Rimle at 313-993-1530 or rimlec@udmercy.edu as soon as possible.

UDM website: www.udmercy.edu

MACOMB COMMUNITY COLLEGE COURSES

Math, Science and Engineering Courses:

ATMT 1300 Metallurgy-Char of Ferrous Metals **and**
ATMT 1310 Metallurgy-Char of Non-Ferr Metals **and**
PRDE 1300 Industrial and Materials Processes
CHEM 1170 Principles of Chemistry 1
CHEM 1180 Principles of Chemistry 2 ¹
DRCG 1140 or PRDE 1400 or PRDE 1500
or PRDE 1600 **and**
ENGR 1000 Introduction to Engineering
PRDE 1410 or PRDE 1450 or PRDE 1510 or PRDE 1610
ITCS 2530 C++ Programming 1
MATH 1760 Analytic Geometry and Calculus 1
MATH 1770 Analytic Geometry and Calculus 2
MATH 2760 Analytic Geometry and Calculus 3
MATH 2770 Differential Equations
PHYS 2220 Analytical Physics 1
PHYS 2230 Analytical Physics 2
PHYS 2400 Statics
PRDE 2200 Jig and Fixture Detailing and Design
QUAL 1011 Quality Fundamentals

Core Curriculum Courses:

ENGL 1190 Communications 2 **or**
ENGL 1220 Composition 2
SPCH 1060 Speech Communication
PHIL 2010 Introduction to Philosophy
HUMN 1700, 2000
HUMN 1700, 2000; PHIL 2100, 2200, 2400

UDM EQUIVALENCIES

E 317 Science of Materials **and**
ME 382/383 Manufacturing Proc/ Lab
CHM 107/110 General Chemistry I/ Lab
CHM 108/112 General Chemistry II/ Lab

E 105 Engr Graphics & Design **and**
E 100 Ethics/Politics of Engr (Obj 6)
E 107 Comp Aided Drafting/Design
E 204 Intro Engr Computing (Obj 2)
MTH 141 Anal Geom & Calc I (Obj 2)
MTH 142 Analytic Geom & Calculus II
MTH 241 Analytic Geom & Calculus III
MTH 372 Differential Equ w/Linear Alg
PHY 160/161 General Physics I/ Lab
PHY 162/163 General Physics II/ Lab
E 312 Statics
MFE 436 Tool Design and Construction
Fulfills degree requirement of ME 361

ENL 131 Academic Writing (Obj 1)
CST 101 Fund of Speech (Obj 1)
PHL 100 Intro to Philosophy (Obj 4)
Choose 1 Religious Studies course (Obj 4)
Choose 1 add'l Phil or Relig Studies (Obj 4)

¹ This or another science course may be used to fulfill the Science requirement – consult with UDM advisor.

NOTE: UDM's Obj 3 is fulfilled by the Program's requirements (Chemistry and/or Physics listed above).

Core Curriculum continued

UDM's Objective 5 - Select up to **three courses** from the following list. One course (those noted with * below) must address "comparative experiences" or come from a foreign language department. Contact UDM Transfer Director, Carolyn Rimle, at 313-993-1530 or rimlec@udmercy.edu for exceptions or clarifications to this list.

Macomb Community College courses:

Anthropology: ANTH *1000

Art: ARTT 2610, 2620

Economics: ECON 1160 (transferable for students completing Associate's degree or Certificate in Pre-Engineering)

English: ENGL 1730, 2510-2610, 2710-2850

Geography: GEOG *2000

History: any HIST course including *(HIST 1260, 1270, 2420, 2520, 2650)

Humanities: HUMN 1210-1479, 1750, *2000 (if not used for Religious Studies requirement)

International Studies: * INTL 2000-2700

Music: MUSC 1030, 2710, 2720

Political Science: POLS *1900, *1950

Social Sciences: SOSC *2010

Speech: SPCH *2300

Theater Arts: THEA 1100

*Foreign Language (only one course may be used to fulfill the OBJ 5 requirement)

UDM HIGHLIGHTS

Great Reputation – For the eighth consecutive year, University of Detroit Mercy is listed in the top tier of Midwestern Master's Universities in the 2009 edition of the *U.S. News and World Report's* "America's Best Colleges." The University was ranked one of the top 25 schools in its category and the highest-ranking school in Michigan. Also, UDM engineering programs are accredited by ABET.

UDM is affordable! About 75% of UDM students receive financial aid and/or scholarships. Combining co-op income and potential scholarships and financial aid, you may have little out-of-pocket expenses. To determine if you qualify for any of UDM's scholarships (including full tuition grants) established for transfer students, contact the Admissions office at 800-635-5020, 313-993-1245 or admissions@udmercy.edu.

Co-op Leader – For all engineering students at UDM, co-op integrates real engineering practice with a rigorous on-campus education that includes computing and laboratory intensive components. UDM has one of the few four-year engineering programs in the country where all students obtain one full year of experience prior to graduation. Besides valuable experience, students earn an average of nearly \$30,000 during their three co-op rotations. In some cases we encourage transfer students to co-op just prior to beginning classes at UDM. This provides a significant amount of income for tuition. Previous engineering related work experience can be considered for transfer credits.

Get a Job! - 100% of UDM graduating engineering students in August 2007 either had a job offer or had been accepted to graduate school on their graduation day.

Excellent Faculty – UDM's small classes are taught by experienced professors (not teaching assistants) who help foster a positive learning environment. Engineering faculty conduct research, receive grant money for lab equipment and curriculum development, work in industry, and win national teaching awards.

Dual Enrollment – To ease the transition between MCC and UDM, it is an option to take one or more engineering courses at UDM while completing courses at MCC. Contact Carolyn Rimle (see above) for specific classes, which vary by department.

Campus Activities – To gain professional, technical and social connections, we highly encourage participation in at least one of the many Engineering and Science organizations or University clubs.

We are Closer than you may think! - UDM, located in a residential area of Northwest Detroit, is easily accessible from most major freeways. We invite you to visit!

