



# SCHOOLCRAFT COLLEGE EQUIVALENCY GUIDE

## COLLEGE OF ENGINEERING AND SCIENCE

### ENGINEERING PROGRAMS

Entrance Requirements: 2.5 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 a University of Detroit Mercy Engineering program [Civil/Environmental, Electrical/Computer, Manufacturing, or Mechanical]. According to transfer policy, additional courses not on this guide may also transfer. (See the Gleam transfer guide for additional Manufacturing Engineering courses.) The maximum number of transfer credits is based on the latest Articulation Agreement. Contact Schoolcraft's counseling office or UDM for more details.

To arrange a campus visit, contact an Admissions Counselor at 313-993-1245, 800-635-5020 or [admissions@udmercy.edu](mailto:admissions@udmercy.edu). In order to determine when you may begin the cooperative education program (sometimes even prior to taking classes at UDM), contact Carolyn Rimle at 313-993-1530 or [rimlec@udmercy.edu](mailto:rimlec@udmercy.edu) as soon as possible.

UDM website: [www.udmercy.edu](http://www.udmercy.edu)

#### SCHOOLCRAFT COLLEGE COURSES

#### UDM EQUIVALENCIES

##### Math, Science, Engineering Courses:

CAD 103	Engineering Graphics <b>and</b>	E 105	Engr Graphics and Design <b>and</b>
ENGR 100	Intro to Engineering & Technology	E 100	Ethics and Politics of Engineering
CAD 201	Ideas - Level 1 <sup>1</sup> <b>or</b> CAD 211	CATIA – Level 1 <sup>1</sup>	
<b>or</b> CAD 221	SolidWorks – Level 1 <sup>1</sup>	E 107	Comp Aided Drafting/Design
CHEM 111	General Chemistry 1	CHM 107/110	General Chemistry I/ Lab
CHEM 117	General Chem & Qual Analysis 2 <sup>2</sup>	CHM 108/112	General Chemistry II/ Lab
CIS 211	Introduction to C++	E 204	Intro to Engineering Computing
ENGR 201	Statics <sup>2</sup>	E 312	Statics
ENGR 202	Mechanics of Materials <sup>2</sup>	E 326	Mechanics of Materials
ENGR 203	Dynamics <sup>2</sup>	E 313	Dynamics
MATH 150	Calculus with Analytic Geometry 1	MTH 141	Analytical Geom and Calculus I
MATH 151	Calculus with Analytic Geometry 2	MTH 142	Analytical Geom and Calculus II
MATH 240	Calculus with Analytic Geometry 3	MTH 241	Analytical Geom and Calculus III
MATH 252	Differential Equations	MTH 372	Differential Eq w/ Linear Algebra
PHYS 211	Physics for Scientists & Engineers 1	PHY 160/161	General Physics I/ Lab
PHYS 212	Physics for Scientists & Engineers 2	PHY 162/163	General Physics II/ Lab
ENVR 204	Introductory Surveying <sup>3</sup> <b>or</b>	CE 340	Engineering Surveys
ENVR 206	Environmental Law <sup>3</sup>		Science Elective (Civil/Environmental prog only)

##### Core Curriculum Courses:

COMA 103	Fundamentals of Speech	CST 101	Fundamentals of Speech (Obj 1)
ENG 102	English Composition 2	ENL 131	Academic Writing (Obj 1)
PHIL 243	An Introduction to Philosophy	PHL 100	Introduction to Philosophy (Obj 4)
PHIL 247 <b>or</b> PHIL 277	(select only one)	PHL 150 Logic <b>or</b> PHL 201	Ethics (Obj 4)
ANTH 211	Myth, Magic and World Religions		Religious Studies requirement (Obj 4)
ENG 116	Technical Writing	ENL 303	Technical Writing

<sup>1</sup> Required by Mechanical and Manufacturing Engineering programs - select only one course.

<sup>2</sup> Not required by Electrical/Computer Engineering program. Note: CHEM 117 or another science course may be used to fulfill the requirement for Mechanical and Manufacturing Engineering – consult with UDM advisor.

<sup>3</sup> Options for Civil/Environmental program – select only one.

## 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.

### Schoolcraft College courses:

Anthropology - \*ANTH 112-201, 214

Art and Design - ART 115, 116, 201, 216

Economics - ECON 201 (transferable for Assoc in Engr students)

English - ENL 170, 200, 243-275

Geography - \*GEOG 133, 241

History - HIST 134-230

Humanities - HUM 150-232

Music - MUSIC 105, 109, 149, 155, 164, 165

Political Science - \*POLS 207

Sociology - \*SOC 210

Theatre - THEA 101, 231, 232

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

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## UDM HIGHLIGHTS

**Great Reputation** - For the seventh consecutive year, University of Detroit Mercy is listed in the top tier of Midwestern Master's Universities in the 2008 edition of the *U.S. News and World Report's* "America's Best Colleges." In the magazine's "Great Schools, Great Prices" listing, UDM ranked third in its category. According to *U.S. News*, this ranking highlights the best financial value as it relates to a school's academic quality. Also, UDM engineering programs are accredited by ABET.

**UDM is affordable!** Nearly 80% 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. 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 Schoolcraft College and UDM, it is an option to take one or more engineering courses at UDM while completing courses at Schoolcraft. Contact Carolyn Rimle (see above) for specific courses, 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 many freeways, including I-96. We are approximately 25 minutes from Schoolcraft College. We invite you to visit!

