



**NORTHWESTERN MICHIGAN COLLEGE  
EQUIVALENCY GUIDE  
COLLEGE OF ENGINEERING AND SCIENCE  
ENGINEERING PROGRAMS**

Entrance Requirements: 2.5 GPA based on at least 24 semester hours of credit.

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 be transferable. Students may transfer a maximum of 63 semester hours toward their degree.

To arrange a campus visit, contact an Admissions Counselor at 313-993-1245, 800-635-5020 or admissions@udmercy.edu. In order to qualify for a cooperative education assignment as early as the summer following the sophomore year, students should contact Transfer Director, Carolyn Rimle, at rimlec@udmercy.edu or 313-993-1530 as soon as possible.

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

**NORTHWESTERN MICH COLLEGE COURSES**

**Math, Science, Engineering Courses:**

CHM 150	General Chemistry I and Lab
CHM 151	General Chemistry II <sup>1</sup>
CIS 255	JAVA Programming - An Introduction <b>or</b>
MTH 116	Introduction to Computer Science
EGR 101	Introduction to Engineering <b>and</b>
EGR 113	Engineering Graphics I
EGR 131	Elementary Surveying <sup>2</sup> <b>or</b>
ENV 231	Environmental Science <sup>2</sup>
EGR 201	Engineering Mechanics I <sup>1</sup> <b>and</b>
EGR 202	Engineering Mechanics II <sup>1</sup>
MTH 141	Calculus I
MTH 142	Calculus II
MTH 241	Calculus III
MTH 251	Differential Equations
PHY 221	Probs & Principles of Physics I and Lab
PHY 222	Probs & Principles of Physics II and Lab

**Core Curriculum Courses:**

COM 111	Public Speaking
ENG 112	English Composition
ENG 220	Technical Writing
PHL 101	Introduction to Philosophy
PHL 121-182, 222	
PHL 105-222	

**UDM EQUIVALENCIES**

CHM 107/110	General Chemistry I/ Lab
CHM 108	General Chemistry II
E 204	Intro to Engr Computing
E 105	Eng Graphics & Design
Engineering/Sci Elective (Civil/Env only)	
E 312 Statics <b>and</b> E 313 Dynamics <b>and</b>	
E 326 Strength of Materials	
MTH 141	Analytic Geom & Calculus I
MTH 142	Analytic Geom & Calculus II
MTH 241	Analytic Geom & Calculus III
MTH 372	Differential Eq w/Linear Alg
PHY 160/161	General Physics I/ Lab
PHY 162/163	General Physics II/ Lab

CST 101	Fund of Speech (Obj 1)
ENL 131	Academic Writing (Obj 1)
ENL 303	Technical Writing
PHL 100	Intro to Philosophy (Obj 4)
Choose 1 Religious Studies course (Obj 4)	
Choose 1 add'l Phl or Rel Std crse (Obj 4)	

<sup>1</sup> Not required by Electrical/Computer Engineering program.

<sup>2</sup> Options for Civil/ Environmental Engineering program only – choose one.

## **Core Curriculum continued**

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

### Northwestern Michigan College courses:

Art: ART 100-116, 213, 214

English: ENG 240-271

Geography: GEO 109

History: HST 101-235

Humanities: HUM 101-112

Music: MUS 110, 111

Political Science: PLS 132

Sociology: SOC 113

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

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## **UDM FAST FACTS**

**US News and World Report Ranking** – For the fifth consecutive year, University of Detroit Mercy ranks in the top tier of Midwestern Master's Universities in the 2006 edition of the *U.S. News and World Report's* "America's Best Colleges." UDM is the top ranking Michigan university in this category. UDM is also rated number five in the Midwestern Master's category for the institution's strong "Campus Diversity."

**UDM is affordable!** Nearly 80% of UDM students receive some type of financial aid and/or scholarship. 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 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.

**Teaching Scholars** – The College of Engineering and Science faculty has become a community of *teaching scholars*, leading the nation in attracting National Science Foundation grants (over 30 in recent years) for laboratory instrumentation and curriculum development. All equipment is used in undergraduate instructional labs. Faculty members, not teaching assistants, teach all major courses.

**Student Leadership** – To gain professional, technical and social connections, we highly encourage participation in at least one of the 25 College organizations or numerous University clubs.

**Location** - UDM, located in Northwest Detroit, is close to numerous corporations, including many companies' headquarters. The Metro Detroit area is also home to a wide variety of cultural activities, entertainment, and sports teams. We invite you to visit!

