



NIAGARA UNIVERSITY EQUIVALENCY GUIDE

Engineering Programs College of Engineering and Science

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 up to 96 credit hours.

To arrange a campus visit, contact an Admissions Counselor at 313-993-1245, 800-635-5020 or admissions@udmercy.edu.

UDM website: www.udmercy.edu

NIAGARA UNIVERSITY COURSES

Math, Science, Engineering Courses:

CHE 111	General Chemistry I
CHE 112	General Chemistry II ¹
CHE 113	General Chemistry Lab I
CIS 265	Computer Science I
EGR 115, 225	Engineering Graphics I and II
EGR 202	Circuit Analysis I
EGR 204	Thermodynamics ²
EGR 207	Statics ¹
MAT 111	Calculus I
MAT 112	Calculus II
MAT 221	Calculus III
MAT 222	Differential Equations and
MAT 228	Linear Algebra
MAT 435	Probability and Statistics I
PHY 121	General Physics I
PHY 122	General Physics II

Core Curriculum Courses:

SPK 101	Speech: Public Speaking
WRT 100	Writing
PHI 205	Introduction to Philosophy
REL 101-399	Religious Studies class
REL 101-399 or PHI 206-320	
ENG 231	Business Communication

UDM EQUIVALENCIES

CHM 107	General Chemistry I
CHM 108	General Chemistry II
CHM 110	General Chemistry Lab I
E 204	Intro to Engineering Computing
E 105	Engineering Graphics and Design
EE 350	Network Theory I (or E 320 for non-EE majors)
E 315	Thermodynamics I
E 312	Statics
MTH 141	Analytical Geom and Calculus I
MTH 142	Analytical Geom and Calculus II
MTH 241	Analytical Geom and Calculus III
MTH 372	Differential Eq w/ Linear Algebra
MTH 427	Applied Probability and Statistics
PHY 160/161	General Physics I/ Lab
PHY 162/163	General Physics II/ Lab
CST 101	Fundamentals of Speech (Obj 1)
ENL 131	Academic Writing (Obj 1)
PHL 100	Introduction to Philosophy (Obj 4)
Choose 1	Religious Studies Course (Obj 4)
Choose 1	add'l Rel Stds or Phl Course (Obj 4)
ENL 303	Technical Writing

¹ Not required by Electrical/Computer Engineering program.

² Not required by Computer Engineering option under EE (contact UDM advisor for details.)

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 UDM Transfer Director, Carolyn Rimple, at 313-993-1530 or rimlec@udmercy.edu for exceptions or clarifications to this list.

Niagara University courses:

Communication Studies: CMS 300, 353, 354

English: ENG 100, 203-216, 300-354, 400-411, 420-430

Fine Arts: FAA 201-232, 344, 345

Geography: GEO 290

History: HIS 199-104, 201-379

Political Science: POL 105, 282, 360, 362, 368, 376, 378

Social Work: SWK 251

Sociology: SOC 205, 231, 232, 308, 317, 318, 325

Theatre: THR 103, 400, 411-414

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

UDM FAST FACTS

US News and World Report Ranking – The 2005 edition of the *U.S. News and World Report's* "America's Best Colleges" ranks the University of Detroit Mercy as one of the top 25 Midwestern master's universities – the highest ranked of all Michigan schools in this category. UDM is also featured as one of only 15 Midwest universities in the magazine's "Best Values: Great Schools at Great Prices" category.

UDM is affordable! Combining co-op income and potential scholarships and financial aid, you may have little out-of-pocket expenses. See details below.

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 over \$28,000 during their three co-op rotations. This provides a significant amount of income toward tuition. Previous engineering related work experience can be considered for transfer credits.

Scholarships – UDM has several internally and externally funded scholarships (including full tuition grants) established for transfer students. Contact the Admissions office at 313-993-1245, 800-635-5020 or admissions@udmercy.edu to determine if you qualify.

Teaching Scholars – The faculty of the College of Engineering and Science 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 active College organizations or numerous University clubs.

Location - UDM, located in Northwest Detroit, has close proximity 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!