



ROCKHURST UNIVERSITY 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.

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 (sometimes even prior to taking classes at UDM), contact Carolyn Rimle at 313-993-1530 or rimlec@udmercy.edu as soon as possible.

UDM website: www.udmercy.edu

ROCKHURST UNIVERSITY COURSES

Math, Science, Engineering Courses:

CH 2610	General Chemistry I
CH 2630	General Chemistry II ¹
CS 1110/1120	Introduction to Programming/ Lab
CS 2330	Digital Circuits ²
CS 4850	Network Theory ³
ES 3400	Engineering Thermodynamics ⁴
ES 3500	Engineering Statics ⁴
MT 1800	Calculus I
MT 1810	Calculus II
MT 2800	Calculus III
MT 3400	Probability and Statistics I
MT 3700	Differential Equations and
MT 3810	Linear Algebra
PH 2800	General Physics I
PH 2810	General Physics Laboratory I
PH 2900	General Physics II
PH 2910	General Physics Laboratory II
PH 4300	Electricity and Magnetism ²
PH 4500	Modern Physics ²
ES 2740, 3740, 3750, 4740, 4750	Robotics courses

Core Curriculum Courses:

CT 2000	Fundamentals of Communication
EN 1120	College Composition II
EN 4160	Technical Writing
PL 1100 or 1150	Reality and Human Existence
CA 1500, TH 1000 – 4888	
CA 1500, PL 2500-4660; TH 1000-4888	

UDM EQUIVALENCIES

CHM 107/110	General Chemistry I/ Lab
CHM 108/112	General Chemistry II/ Lab
E 204	Intro to Engineering Computing
EE 264/265	Digital Logic I/ Lab
EE 468	Computer Networking
E 315	Thermodynamics
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 427	Applied Probability and Statistics
MTH 372	Differential Eq w/ Linear Algebra
PHY 160	General Physics I
PHY 161	General Physics Laboratory I
PHY 162	General Physics II
PHY 163	General Physics Laboratory II
EE 366	Electromagnetics I
PHY 367	Modern Physics

3, 6 or 9 credits may be transferable as Technical Electives for some depts - contact UDM advisor for details.

¹ Not required by Electrical/ Computer Engineering programs. Note: CH 2630 or *another approved science course* may be used to fulfill the requirement for Mechanical and Manufacturing Engineering – consult with UDM advisor.

² Required by Electrical/ Computer Engineering programs only

³ Required only by Computer Engineering (option under EE); Technical Elective for Electrical Engineering.

⁴ Not required by Electrical/ Computer Engineering programs.

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 Rimle, at 313-993-1530 or rimlec@udmercy.edu for exceptions or clarifications to this list.

Rockhurst University courses:

Art: AR 1110, 1120, 1130

Communication: CT 3200

English: EN 2300-3000, 3220-3680, 3820-3896, 4370-4810, 4830-4880 (min 3 credits per class)

Global Studies: GS 3300-3370, 3510, 3580

History: HS 1100-3925

Integrated Humanities: HU 2110-2220

Music: MS 3430, 3450, 3500, 3650

Political Science: PS 3300-3410, 3510, 3580

Theatre Arts: TA 1000

Women's Studies: WS 1000

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

UDM HIGHLIGHTS

Great Reputation – For the sixth consecutive year, University of Detroit Mercy is listed in the top tier of Midwestern Master's Universities in the 2007 edition of the *U.S. News and World Report's* "America's Best Colleges." UDM is the top ranking Michigan university in this category. In the "Great Schools at Great Prices" listing, UDM moved up to the top 6% 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! Over 70% 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! - 92% of UDM graduating engineering students in 2006 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.

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.

Location - UDM, located in a residential area of 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!