



JACKSON COMMUNITY 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, or Mechanical]. Students may transfer a maximum of 63 credits. According to transfer policy, additional courses not on this guide may also be transferable.

To arrange a campus visit, contact an Admissions Counselor at 800-635-5020 or admissions@udmercy.edu. In order to determine when you may begin the cooperative education program, contact the Engineering and Science Transfer Director at 313-993-1530 or rmlc@udmercy.edu as soon as possible.

UDM Website: www.udmercy.edu

JACKSON COMM COLLEGE COURSES

Engineering, Math, Science Courses:

CEM 141	General Chemistry I
CEM 142	General Chemistry II ¹
CIS 170 or CPS 177	Programming in C++
EGR 153	Engineering Drawing
EGR 261	Engineering Mechanics I ²
EGR 262	Engineering Mechanics II ²
MTH 151	Calculus I
MTH 154	Calculus II
MTH 251	Calculus III
MTH 254	Differential Equations
PHY 251	Modern University Physics I
PHY 252	Modern University Physics II

Core Curriculum Courses:

COM 231	Communication Fundamentals
ENG 132	Writing Experience
ENG 232	Technical and Business Writing
PHL 231	Introduction to Philosophy
PHL 243	Great World Religions
PHL 232 or PHL 236	

UDM EQUIVALENCIES

CHM 1070/1100	General Chemistry I/ Lab
CHM 1080/1120	General Chemistry II/ Lab
CSC 1710 or ENGR 2040	Intro to Programming
ENGR 1050	Engr Graphics & Design
ENGR 3260	Mechanics of Materials
ENGR 3130	Dynamics
MTH 1410	Analytic Geom & Calculus I
MTH 1420	Analytic Geom & Calculus II
MTH 2410	Analytic Geom & Calculus III
MTH 3720	Diff Equ w/Linear Algebra
PHY 1600/1610	General Physics I/ Lab
PHY 1620/1630	General Physics II/ Lab

CST 1010	Fund of Speech (Obj 1)
ENL 1310	Academic Writing (Obj 1)
ENL 3030	Technical Writing
PHL 1000	Intro to Philosophy (Obj 4)
	Choose 1 Religious Studies Course (Obj 4)
	Choose 1 additional Philosophy class (Obj 4)

¹ Not required by Electrical/Computer or Civil/Environmental Engineering programs. CEM 142 or *another science course* may be used to fulfill the requirement for Mechanical Engineering – consult with a UDM advisor.

² 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 the UDM Transfer Director at 313-993-1530 or rimlec@udmercy.edu for exceptions/clarifications to this list.

Jackson Community College courses:

Anthropology: ANT 131

History: HIS 120-235

Art: ART 111, 112

Humanities: HUM 131

English: ENG 210, 246-252, 255-257

Music: MUS 130-132

Geography: GEO 132

Theatre: THR 116

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

UDM HIGHLIGHTS

Great Reputation – For the ninth consecutive year, University of Detroit Mercy is listed in the top tier of Midwestern Master's Universities in the 2010 edition of the *U.S. News and World Report's* "America's Best Colleges." UDM was also rated one of the top 15 institutions in the "Great Schools, Great Prices" category. 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.

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 easily accessible from many major freeways (including I-94) and is close to numerous corporations, including many companies' headquarters. The Metro Detroit area is also home to many sports teams, cultural activities, and entertainment. We invite you to visit!