



**HENRY FORD COMMUNITY COLLEGE
EQUIVALENCY GUIDE
COLLEGE OF ENGINEERING AND SCIENCE
ENGINEERING PROGRAMS**

Entrance Requirements: 2.50 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]. 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

HENRY FORD COMM COLLEGE COURSES

UDM EQUIVALENCIES

Math, Science, Engineering Courses:

CHEM 141	Princ of Gen'l & Inorganic Chem I	CHM 1070/1100	General Chemistry I/ Lab
CHEM 142	Princ of Gen'l & Inorganic Chem II ¹	CHM 1080/1120	General Chemistry II/ Lab
CIS 170	"C" Programming	ENGR 2040	Intro to Engineering Computing
DRAF 120	Introduction to CAD and	ENGR 1050	Engr Graphic & Design and
ENGR 130	Introduction to Engineering	ENGR 1000	Ethics & Politics of Engr
ENGR 201	Science of Materials ²	ENGR 3170	Science of Materials
ENGR 232	Statics ²	ENGR 3120	Statics
ENGR 233	Dynamics ²	ENGR 3130	Dynamics
MATH 180	Calculus I	MTH 1410	Analytic Geometry & Calculus I
MATH 183	Calculus II	MTH 1420	Analytic Geometry & Calculus II
MATH 280	Calculus III	MTH 2410	Analytic Geometry & Calculus III
MATH 289	Differential Equations	MTH 3720	Differential Equ w/ Linear Algebra
PHYS 231	Engineering Physics or		
PHYS 241	Mechanics	PHY 1600/1610	General Physics I/ Lab
PHYS 232	Engineering Physics (Continued) or		
PHYS 243	Electricity and Magnetism	PHY 1620/1630	General Physics II/ Lab

Core Curriculum Courses:

SPC 131	Fundamentals of Speaking	CST 1010	Fund of Speech (Obj 1)
ENG 132	College Writing and Research	ENL 1310	Academic Writing (Obj 1)
ENG 135	Bus & Tech Writing & Research	ENL 3030	Technical Writing
PHIL 137	Topics in Philosophy	PHL 1000	Intro to Philosophy (Obj 4)
WR 130 - 233			Choose 1 Religious Studies class (Obj 4)
PHIL 131 -135, 139; WR 130-240			Choose 1 Phil or Relig Studies course (Obj 4)

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

² Not required by the Electrical/Computer 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.

Henry Ford Community College courses:

Anthropology: ANTH 131-152

Art: ART 121-123, 135, 224

Economics: BEC 133-152 (transferable for Assoc Sci/ Pre-Engr students)

English: ENG 231-245, 248

Geography: GEOG 132

History: HIST 111-262

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

Honors: Honors 251

Humanities: HUM 101

Music: MUS 130-133, 232, 233

Sociology: SOC 251

Telecommunications: TCM 132

Theatre: STH 131

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. 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.

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 HFCC and UDM, it is an option to take one or more engineering courses at UDM while completing courses at HFCC. Contact Carolyn Rimle (see above) for specific classes, 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 most major freeways in the Detroit area. We invite you to visit!