



DELTA 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, Manufacturing, or Mechanical]. According to transfer policy, additional courses not on this guide may also be transferable.

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.

UDM website: www.udmercy.edu

DELTA COLLEGE COURSES

Math, Science and Engineering Courses:

CHM 111	General and Inorganic Chemistry I
CHM 112	General and Inorganic Chemistry II ¹
CST 180	C++ Programming
EGR 100	Careers in Engineering and
PHL 207	Engineering Ethics
EGR 101	Engineering Design and Analysis and
EGR 165 or EGR 166	Engineering Graphics
EGR 215	Engineering Mechanics, Statics ¹
EGR 216	Engineering Mechanics, Dynamics ¹
EGR 221	Engineering Materials ¹
EGR 235	Circuit Analysis
EGR 320	Mechanics of Materials ¹
MTH 161	Analytic Geometry and Calculus I
MTH 162	Analytic Geometry and Calculus II
MTH 261	Analytic Geometry and Calculus III
MTH 263	Intro to Linear Algebra and
MTH 264	Intro to Ordinary Differential Equations
PHY 211	Physics I
PHY 212	Physics II

Core Curriculum Courses:

ENG 112	College Composition II
SPH 112	Fundamentals of Oral Communication
PHL 211	Introduction to Philosophy
IHU 234/ SSI 234 or PHL 214	
PHL 203, 205, 213-225, 240-260, IHU234/ SSI 234	
ENG 113	Technical Communication

UDM EQUIVALENCIES

CHM 107/110	General Chemistry I/ Lab
CHM 108/112	General Chemistry II/ Lab
E 204	Intro Engineering Computing
E 100	Ethics and Politics of Engr
E 105	Engr Graphics & Design
E 312	Statics
E 313	Dynamics
E 317	Science of Materials
EE 250/251 ²	Fund of ECE I/ Lab or
E 320/321	Princ of EE (non-EE majors)
E 326	Mechanics 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

ENL 131	Academic Writing (Obj 1)
CST 101	Fund of Speech (Obj 1)
PHL 100	Intro to Philosophy (Obj 4)
	Choose 1 Religious Studies course (Obj 4)
	Choose 1 Phil or Relig Studies course (Obj 4)
ENL 303	Technical Writing

¹ NOT required by Electrical/Computer Engineering program. Note: CHM 112 or *another science course* may be used to fulfill the requirement for Mechanical and Manufacturing Engineering – consult with UDM advisor.

² Electrical/Computer Engineers will need to make up some Electronics materials – see EE 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 Rimle, at 313-993-1530 or rimlec@udmercy.edu for clarifications to this list.

Delta College courses:

Art: ART 151, 152, 255

Geography: GEO 113, 255

History: HIS 111-222, 237, 275

Interdisciplinary Humanities: IHU 101, 202, 226, 232

Literature: LIT 219-246, 260, 269-285

Music: MUS 111-120

Political Science: POL 221, 222, 225

Sociology: SOC 216, 231, 265

Speech/ Oral Comm: SPH 216, 245

Foreign Language [only one course (3 credits min) may be used to fulfill the OBJ 5 requirement]

UDM HIGHLIGHTS

Great Reputation - For the seventh consecutive year, University of Detroit Mercy is listed in the top tier of Midwestern Master's Universities in the 2008 edition of the *U.S. News and World Report's* "America's Best Colleges." In the magazine's "Great Schools, Great Prices" listing, UDM ranked third 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! 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.

Get a Job! - 100% of UDM graduating engineering students in August 2007 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!

