



**ST. CLAIR COUNTY 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 University of Detroit Mercy Engineering programs [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, contact Carolyn Rimle at 313-993-1530 or rimlec@udmercy.edu as soon as possible.

UDM website: [www.udmercy.edu](http://www.udmercy.edu)

**ST CLAIR COUNTY COMMUNITY COLLEGE COURSES**

**UDM EQUIVALENCIES**

**Math, Science, Engineering Courses:**

CHM 111	Chem Theory & Princ w/ Analysis	CHM 107/110	General Chemistry I/ Lab
CHM 112	Chem Theory & Princ w/ Analysis <sup>1</sup>	CHM 108/112	General Chemistry II/ Lab
CIS 264	C++ Programming for Engineers	E 204	Intro to Engineering Computing
EG 180	Engineering Graphics <b>and</b>	E105	Eng Graphics and Design <b>and</b>
PHY 115	Introduction to Engineering	E 100	Ethics and Politics of Engineering
EG 270	Advanced Solid Modeling <sup>2</sup>	E 107	Introduction to Solid Modeling
MTH 114	Analytic Geometry and Calculus I	MTH 141	Analytical Geom and Calculus I
MTH 215	Analytic Geometry and Calculus II	MTH 142	Analytical Geom and Calculus II
MTH 216	Analytic Geometry and Calculus III	MTH 241	Analytical Geom and Calculus III
MTH 210	Linear Algebra <b>and</b>		
MTH 217	Differential Equations	MTH 372	Differential Eq w/ Linear Algebra
PHY 221	Mechanics, Heat & Sound	PHY 160/161	General Physics I/ Lab
PHY 222	Electricity, Light & Modern Physics	PHY 162/163	General Physics II / Lab
PHY 231	Statics <sup>3</sup>	E 312	Statics
PHY 232	Introduction to Electric Circuits	EE 250	Fund of ECE I (EE/Comp Eng) <b>or</b>
		E 320	Prin of Elect Eng (Civil,Mfg,Mech)
SUR 178	Land Surveying <sup>4</sup>	CE 340	Engineering Surveys

**Core Curriculum Courses:**

ENG 102	English Composition II	ENL 131	Academic Writing (Obj 1)
SPC 101	Speech Communication	CST 101	Fundamentals of Speech (Obj 1)
ENG 104	Technical Report Writing	ENL 303	Technical Writing
PHL 210	Introduction to Philosophy	PHL 100	Introduction to Philosophy (Obj 4)
PHL 215	Introduction to Logic	PHL 150	Introduction to Logic (Obj 4)
PHL 220	Religions of the World	RS 100	Introduction to Religion (Obj 4)

<sup>1</sup> Not required by Electrical/Computer Engineering program. This or another science course may be used to fulfill a requirement for Mechanical and Manufacturing Engineering – consult with UDM advisor.

<sup>2</sup> Required by Manufacturing and Mechanical Engineering programs only.

<sup>3</sup> Not required by Electrical/Computer Engineering program.

<sup>4</sup> Required by Civil/Environmental Engineering program only.

## **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.

### St. Clair County Community College courses:

Anthropology: ANT 171

Art: ART 120 - 123

English: ENG 205-246, 255

Geography: GEO 102, 233

History: HIS 101-175, 233-297

Music: MUS 106, 230, 231

Political Science: PS 101 (transferable for students completing the Associate in Engineering degree)

Theatre Arts: THA 101

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

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## **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. 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.

**Dual Enrollment** – To ease the transition between SC4 and UDM, it is an option to take one or more engineering courses at UDM while completing courses at SC4. 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 I-94 and most major freeways. We invite you to visit!