



**ST. CLAIR COUNTY COMMUNITY COLLEGE
EQUIVALENCY GUIDE
COLLEGE OF ENGINEERING AND SCIENCE
ENGINEERING PROGRAMS**

Entrance Requirements: 2.5 GPA based on at least 24 credits. If less than 24 credits have been taken, high school transcripts are required. Courses must be a “C” (2.0) or better in order to transfer.

The following courses will transfer into University of Detroit Mercy Engineering programs [Architectural, Civil/Environmental, Electrical/Computer, or Mechanical]. 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

UDM website: www.udmercy.edu

ST CLAIR COUNTY COMMUNITY COLLEGE COURSES

Math, Science, Engineering Courses:

CHM 111	Chem Theory & Princ w/ Analysis
CHM 112	Chem Theory & Princ w/ Analysis ¹
CIS 264	C++ Programming ²
EG 180	Engineering Graphics and
PHY 115	Introduction to Engineering
EG 163	SolidWorks-Product Dsgn & Dev ¹
MTH 114	Calculus I
MTH 215	Calculus II
MTH 216	Calculus III
MTH 217	Differential Equations
PHY 221	Mechanics, Heat & Sound
PHY 222	Electricity, Light & Modern Physics
PHY 231	Statics ³
PHY 232	Introduction to Electric Circuits

UDM EQUIVALENCIES

CHM 1070/1100	General Chemistry I/Lab
CHM 1080/1120	General Chemistry II/Lab
ENGR 2040 or CSSE1710	Engr Computing or Progrming I
ENGR 1050	Eng Graphics and Design and
ENGR 1000	Ethics & Politics of Engineering
ENGR 1070	Intro to Solid Modeling
MTH 1410	Analytical Geom and Calculus I
MTH 1420	Analytical Geom and Calculus II
MTH 2410	Analytical Geom and Calculus III
MTH 3720	Differential Eq w/ Linear Algebra
PHY 1600/1610	General Physics I/Lab
PHY 1620/1630	General Physics II/Lab
ENGR 3120	Statics
ELEE 2500	Fund of ECE I (EE/Comp Eng) or
ENGR 3200	Prin of Elect Eng (Arch, Civil, Mech)
	Nature Science Requirement

Approved Biology/Ecology/Geology class ⁴

Core Curriculum Courses:

ENG 102/104	Eng Comp II or Tech Report Writ	ENL 1310	Academic Writing (OB1)
SPC 101	Speech Communication	CST 1010	Fundamentals of Speech (OB1)
PHL 210	Introduction to Philosophy	PHL 1000	Introduction to Philosophy (OB4A)
PHL 215	Introduction to Logic	PHL 1500	Introduction to Logic (OB4C)
PHL 220	Religions of the World	RELS 2---	Religious Studies requirement (OB4B)

¹ Required by Mechanical Engineering program only. There are options in addition to CHEM 112 – consult with a UDM advisor.

² Not required by the Architectural Engineering program.

³ Not required by the Electrical/Computer Engineering programs.

⁴ Option for the Civil/Environmental Engineering programs only – consult with UDM advisor.

Objective 5 Courses (select two or three*):

With further review, additional courses not listed may possibly transfer also.

HIS 101, 149, 150, 233 PS 101 is transferable only for students completing the Associate in Engineering degree.	Historical Experience courses (OB5A)
ENG 205, 206, 207, 225	Literary Experience courses (OB5B)
ENG 255; THA 101, 106	Aesthetic Experience courses (OB5C)
CHI 101, 102; FR 101-204; GEO 233; GR 101-204; HIS 102; PSY 280; SP 101-204	Comparative Experience courses (OB5D)

*Select two courses total from Objectives 5A, 5B, and 5C above and one course from Objective 5D.
Arch Engineers select just *one* course from Objectives 5A, 5B, or 5C and one course from Objective 5D.

UDM HIGHLIGHTS

Great Reputation – For the eleventh consecutive year, University of Detroit Mercy is listed in the top tier of Midwestern Regional Universities in the 2012 edition of the *U.S. News and World Report's* "America's Best Colleges." UDM is once again ranked one of the top 25 schools in its category and is one of the highest ranking Michigan universities to make the list. Also, this year UDM's Engineering programs are celebrating 100 years of education!

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. Through a portfolio process, 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 SC4 and UDM, it is an option to take one or more engineering courses at UDM while completing courses at SC4. Contact the E&S Transfer Director at 313-993-1530 or rimlec@udmercy.edu 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.

Location - UDM, located in a residential area of Northwest Detroit, is easily accessible from many freeways, including I-94. We invite you to visit!