



**MONROE COUNTY COMMUNITY COLLEGE**  
**EQUIVALENCY GUIDE**  
**COLLEGE OF ENGINEERING AND SCIENCE**  
**ENGINEERING PROGRAMS**

Entrance Requirements: Minimum 2.5 GPA based on at least 24 credits. If less than 24 credits have been taken, high school transcripts are required. Only grades of C (2.0) or higher may 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](mailto:admissions@udmercy.edu).

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

**MONROE COUNTY**

**COMM COLLEGE COURSES**

**Math, Science, Engineering Courses:**

BIO 152	Biological Science <sup>1</sup>
CHEM 151	General College Chemistry I
CHEM 152	General College Chemistry II <sup>2</sup>
CIS 250	Computer Science II <sup>3</sup>
CONM 107	Surveying <sup>4</sup>
MATH 171	Calculus I
MATH 172	Calculus II
MATH 271	Calculus III
MATH 273	Intro to Differential Equations
PHY 251	Engineering Physics I
PHY 252	Engineering Physics II

**Core Curriculum Courses:**

ENGL 152	English Composition II
SPCH 152	Public Speaking
ENGL 155	Technical Writing
PHIL 151	Intro to Logic
PHIL 152	Intro to Western Philosophy
PHIL 253	Intro to the Philosophy of Religion

**UDM EQUIVALENCIES**

BIO 1080	The Science of Life
CHM 1070/1100	General Chemistry I/ Lab
CHM 1080/1120	General Chemistry II/ Lab
ENGR 2040 or CSSE1710	Engr Computing or Prog I
CIVE 3400/3410	Civil Engr: Surv, CAD, GIS
MTH 1410	Analytic Geom & Calc I
MTH 1420	Analytic Geom & Calc II
MTH 2410	Analytic Geom & Calc III
MTH 3720	Differential Eq w/Linear Alg
PHY 1600/1610	General Physics I/ Lab
PHY 1620/1630	General Physics II/ Lab

ENL 1310	Academic Writing (OB1)
CST 1010	Fund of Speech (OB1)
ENL 3030	Technical Writing
PHL 1500	Introduction to Logic (OB4C)
PHL 1000	Intro to Philosophy (OB4A)
	Fulfills Religious Studies requirement (OB4B)

<sup>1</sup> Required by Architectural Engineering program only; this or another *approved* Biology/Ecology/Geology class may be used for Civil/Environmental Engineering- consult with a UDM advisor.

<sup>2</sup> Required by Mechanical Engineering program only. There are other options in addition to CHEM 152- consult with a UDM advisor.

<sup>3</sup> Not required by Architectural Engineering program.

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

**Objective 5 Courses (select up to three\*):**

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

HIST 151, 154, 155, 255, 256	Historical Experience courses (OB5A)
ENGL 240, 251, 252	Literary Experience courses (OB5B)
THEA 151, 251	Aesthetic Experience courses (OB5C)
ANTHR 152; ENGL 266; FREN 151-252; GEOG 152; GERMN 151-252; HIST 159; POLSC 211; SPAN 151-252	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.

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**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](mailto: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 Monroe County Community College and UDM, it is an option to take one or more engineering courses at UDM while completing courses at MCCC. Contact UDM's Engineering and Science Transfer Director at [rimlec@udmercy.edu](mailto:rimlec@udmercy.edu) or 313-993-1530 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 and easily accessible from many major freeways (including I-75), 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!