



**MADONNA UNIVERSITY 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 earned, high school transcripts are required. Only grades of “C” (2.0) or better may transfer.

The following courses will transfer into a University of Detroit Mercy Engineering program [Architectural, Civil/Environmental, Electrical/Computer, or Mechanical]. Students may transfer a maximum of 96 credits. Additional courses not on this guide may also transfer. As members of the Detroit Area Catholic Higher Education Consortium, eligible Madonna University students may take up to 12 credits at UDM while paying their home institution’s tuition rates. Consult with a UDM advisor regarding details.

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

**MADONNA UNIVERSTIY COURSES**

**Math, Science, Engineering Courses:**

CHM 1110 General Chemistry I  
 CHM 1120 General Chemistry II <sup>1</sup>  
 CSC 2080 Computer Science I <sup>2</sup>  
 MTH 2510 Calculus w/ Analytic Geometry I  
 MTH 2520 Calculus w/ Analytic Geometry II  
 MTH 3510 Calculus w/ Analytic Geometry III  
 MTH 4530 Differential Equations  
 Approved Biology/Ecology/Geology Course <sup>3</sup>

**UDM EQUIVALENCIES**

CHM 1070/1100 General Chemistry I/ Lab  
 CHM 1080/1120 General Chemistry II/Lab  
 CSSE 1710 or ENGR 2040 Prog I or Engr Comp  
 MTH 1410 Analytic Geometry & Calculus I  
 MTH 1420 Analytic Geometry & Calculus II  
 MTH 2410 Analytic Geometry & Calculus III  
 MTH 3720 Differential Equ w/Linear Algebra  
 Natural Science Requirement (OB3)

**Core Curriculum Courses:**

WRT 1020 College Composition II	ENL 1310 Academic Writing (OB1)
COM 2350 Public Speaking: Theory & Practice	CST 1010 Fundamentals of Speech (OB1)
WRT 2400 Technical Writing	ENL 3030 Technical Writing
PHL 1010 Introduction to Philosophy	PHL 1000 Introduction to Philosophy (OB4A)
Any RST course(s) (total of 3 credits minimum)	Religious Studies Course(s) - 3 credits (OB4B)
PHL 1050-4240 or RST (total of 3 credits minimum)	Choose 1 add'l Phil or Religious Studies (OB4C)

<sup>1</sup> Required by Mechanical Engineering program only. CHM 1120 or another approved science course may be used to fulfill this requirement – consult with a UDM advisor.

<sup>2</sup> Not required by Architectural Engineering program.

<sup>3</sup> Required by Civil/Environmental Engineering program - consult with a UDM advisor.

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

Additional courses not listed may also transfer.

HIS 1080, 2310, 2450, 3300, 3330, 3810, 4530;  
HIS/PSC 4631, 4632, 4633

Historical Experience courses (OB5A)

ENG 4540

Literary Experience courses (OB5B)

COM 3410; PHL 3210

Aesthetic Experience courses (OB5C)

GEO 3010; HIS/PSC 4631; PSC 3210  
Any foreign language course (3 credits min)

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 tenth consecutive year, University of Detroit Mercy is listed in the top tier of Midwestern Master's Universities in the 2011 edition of the *U.S. News and World Report's* "America's Best Colleges." UDM was once again ranked one of the top 30 schools in its category and the highest ranking Michigan university in the list.

**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. 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.

**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.

**Dual Enrollment** – To ease the transition between Madonna and UDM, it is an option to take several classes at UDM while completing courses at Madonna. For up to 12 credits this may be done under the Detroit Area Catholic Higher Education Consortium (eligible students pay Madonna tuition while taking UDM classes).

**Location** - UDM, located in a residential area of Northwest Detroit, is easily accessible from most major freeways including I-96. We are approximately 20 minutes from Madonna. We invite you to visit!