



**UNIVERSITY OF ST THOMAS 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 transfer.

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 as soon as possible.

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

**UNIVERSITY OF ST THOMAS COURSES**

**Math, Science, Engineering Courses:**

- CHEM 1341 General Chemistry
- CHEM 1342 General Chemistry <sup>1</sup>
- CHEM 1141 Fundamentals of Chemistry Lab
- ENVR 3355 Introduction to GIS <sup>2</sup>
- ENVR 4356 Advanced Topics in GIS <sup>2</sup>
- MATH 1431 Calculus I
- MATH 1432 Calculus II
- MATH 2338 Introduction to Programming
- MATH 2431 Calculus III
- MATH 2343 Differential Equations **and**
- MATH 3334 Linear Algebra
- MATH 3335 A First Course in Probability
- PHYS 2333/2111 University Physics I/ Lab
- PHYS 2334/2112 University Physics II/Lab
- PHYS 3333 Electrical Circuits
  
- PHYS 3335 University Physics III <sup>3</sup>
- PHYS 3336 Thermodynamics <sup>1</sup>
- PHYS 3341 Mechanics I (Statics) <sup>1</sup>
- PHYS 3342 Mechanics II (Dynamics) <sup>1</sup>

**UDM EQUIVALENCIES**

- CHM 107 General Chemistry I
- CHM 108 General Chemistry II
- CHM 110 Chemistry Laboratory I
- CE 340 Engineering Surveys (Sci Elective)
- CE 491 Geographic Info Systems (TE)
- MTH 141 Analytical Geom and Calculus I
- MTH 142 Analytical Geom and Calculus II
- E 204 Intro to Engineering Computing
- MTH 241 Analytical Geom and Calculus III
  
- MTH 372 Differential Eq w/ Linear Algebra
- MTH 427 Applied Probability and Statistics
- PHY 160/161 General Physics I/ Lab
- PHY 162/163 General Physics II/ Lab
- EE 250 Fund of ECE I (EE/Comp Eng) **or**
- E 320 Prin of Elect Eng (Civil, ME, Mfg)
- PHY 367 Modern Physics
- E 315 Thermodynamics I
- E 312 Statics
- E 313 Dynamics

**Core Curriculum Courses:**

- |  |           |                                       |
|--|-----------|---------------------------------------|
| COMM 1331 Public Speaking                    | CST 101   | Fundamentals of Speech (Obj 1)        |
| ENGL 1341 The Classical Trad: Lit and Comp I | ENL 131   | Academic Writing (Obj 1)              |
| PHIL 1311 Philosophy of the Human Person     | PHL 100   | Introduction to Philosophy (Obj 4)    |
| THEO – any 3 credit hour class               | RS xxx    | Religious Studies req't (Obj 4)       |
| Any additional 3 credit PHIL or THEO course  | RS/PHLxxx | Religious Studies/ Phil req't (Obj 4) |

<sup>1</sup> Not required by Electrical/Computer Engineering program.  
<sup>2</sup> Required by Civil/Environmental Engineering program only.  
<sup>3</sup> Required by Electrical/Computer 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.

### University of St Thomas courses:

Archaeology - ARCH 2336, 3335

Art History - ARTHS 1350-4395

Drama – DRAM 1330, 3339

English – ENGL 1342-3305, 3309-3340, 3344, 3345, 4314-4322, 4324, 4325

Fine and Performing Arts – FPA 1332, 1333, 3340

Geography – GEOG 2332

History – HIST 1335-4328, 4337-4353

International Studies – INST 3351, 3355-3363, 4358-4360

Music – MUSC 3340-3342

Political Science – POSC 3305, 4304, 4305

Sociology – SOCI 2333, 3301, 3355

Women, Culture and Society – WCS 3300

\*Foreign Language – one 3 credit hour course focused on learning to speak a foreign language or the culture of another country. (Only one course may be used to fulfill the OBJ 5 requirement.)

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## **UDM HIGHLIGHTS**

**Great Reputation** – For the sixth consecutive year, University of Detroit Mercy is listed in the top tier of Midwestern Master's Universities in the 2007 edition of the *U.S. News and World Report's* "America's Best Colleges." UDM is the top ranking Michigan university in this category. In the "Great Schools at Great Prices" listing, UDM moved up to the top 6% 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 some type of financial aid and/or scholarship. 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 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!** - 92% of UDM graduating engineering students in 2006 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 25 College of E& S organizations or numerous University clubs.

**Location** - UDM, located in a residential area of Northwest Detroit, has close proximity 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!