



## OAKLAND COMMUNITY COLLEGE TRANSFER 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 earned, 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 transfer.

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)

#### OCC COURSES

##### Math, Science, Engineering Courses:

BIO 1511	Life Science <sup>1</sup>
CAD 2102	Fund of Part Design/Apps <sup>2</sup> or
CAD 2110	Intro to Unigraphics <sup>2</sup>
CHE 1510	General Chemistry I
CHE 1520	General Chemistry II <sup>3</sup>
CIS 2252	Object-Oriented Prog (C++) <sup>4</sup>
CMN 1300	Construction Surveying <sup>5</sup>
MAT 1730	Calculus I
MAT 1740	Calculus II
MAT 2740	Calculus III
MAT 2810	Differential Equations
PHY 2400	Engineering Physics I
PHY 2500	Engineering Physics II
PHY 2520	Engineering Physics III <sup>6</sup>

##### Core Curriculum Courses:

ENG 1520	Composition II
COM 1600	Fundamentals of Speech
PHI 1510	Introduction to Philosophy
HUM 1710, 2720	
HUM 1710, 2720; PHI 1520-1710, 2710	
ENG 2200	Professional Communication

#### UDM EQUIVALENCIES

BIO 1080	The Science of Life
ENGR 1070	Intro to Solid Modeling
CHM 1070/1100	General Chemistry I/Lab
CHM 1080/1120	General Chemistry II/Lab
CSSE 1710/1711	Intro Programming I/Lab
CIVE 3400/3410	Civil Engr: Survey, CAD, GIS/Lab
MTH 1410	Analytic Geometry and Calculus I
MTH 1420	Analytic Geometry and Calculus II
MTH 2410	Analytic Geometry and Calculus III
MTH 3720	Differential Equations w/ Linear Alg
PHY 1600/1610	General Physics I/Lab
PHY 1620/1630	General Physics II/Lab
PHY 3670	Modern Physics
ENL 1310	Academic Writing (OB1)
CST 1010	Fundamentals of Speech (OB1)
PHL 1000	Introduction to Philosophy (OB4A)
	Choose 1 Religious Studies course (OB4B)
	Choose 1 Philosophy or Religious Studies course (OB4C)
ENL 3030	Technical Writing

<sup>1</sup> BIO 1511 (UDM's BIO 1080) is required by Architectural Engineering program only; this or another approved Biology/ Ecology/Geology class may be used for Civil/Environmental Engineering - consult with UDM advisor.

<sup>2</sup> Required by the Mechanical Engineering program only (select one).

<sup>3</sup> Required by the Mechanical Engineering program only. This or another approved science class may be used to fulfill this requirement - consult with a UDM advisor.

<sup>4</sup> Not required by the Architectural Engineering program.

<sup>5</sup> Required by Civil/Environmental Engineering program only.

<sup>6</sup> Required by Electrical/Computer Engineering programs only.

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

Additional courses not listed may also transfer.

HIS 1510, 1550, 2510, 2520, 2610, 2620

Historical Experience courses (OB5A)

ENG 1610, 1710, 1720, 2510, 2520, 2530, 2540,  
2550, 2560, 2750, 2760, 2770

Literary Experience courses (OB5B)

ART 1560, 1700, 2560, 2600, 2620;  
FSH 1500; HUM 1510, 1520, 1900, 2100-2109, 2900;  
MUS 1540, 1550, 1560, 1585, 1590, 1685;  
THE 1561, 1571

Aesthetic Experience courses (OB5C)

ANT 1540, 2510, 2750; ARB 1510-2620; CHI 1510-2620;  
COM 2290; FRE 1510-2620; GEO 1520; GER 1510-2620;  
HIS 1520; ITA 1510-2610; JPN 1510-2620; POL 2610;  
RUS 1510-2620; SLS 1000, 1010-1045, 1501; SOC 2530;  
SPA 1510-2620

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 on the list. Also, UDM's Engineering programs recently celebrated 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 OCC and UDM, it is an option to take one or more engineering courses at UDM while completing courses at OCC. Contact UDM's Engineering and Science Transfer Director, [rimlec@udmercy.edu](mailto:rimlec@udmercy.edu) or 313-993-1530 for specific classes, which vary by department. **Look for UDM courses offered at the OCC-Auburn Hills campus, too!**

**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 most major freeways in the Detroit area. We invite you to visit!