



ALPENA COMMUNITY COLLEGE EQUIVALENCY GUIDE COLLEGE OF ENGINEERING AND SCIENCE ENGINEERING PROGRAMS

Entrance Requirements: Minimum 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 University of Detroit Mercy Engineering programs [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

ALPENA COMMUNITY COLLEGE COURSES

Engineering, Math and Science Courses:

CEM 121	General and Inorganic Chemistry
CEM 122	Inorganic Chem & Qualitative Analysis ¹
EGR 122	Intro to Engineering (recommended but optional) and
EGR 125	Engineering Graphics Communications
EGR 221	Statics ¹
EGR 222	Mechanics of Materials ¹
EGR 231	Dynamics ¹
MTH 131	Analytic Geometry and Calculus I
MTH 132	Analytic Geometry and Calculus II
MTH 231	Analytic Geometry and Calculus III
MTH 232	Differential Equations
MTH 221	C++ Programming
PHY 221	Physics
PHY 222	Physics

Core Curriculum Courses:

SPE 121	Speech Communication
ENG 112 or ENG 122	English
ENG 123	Technical Communication
PHL 225	Philosophy
ANP 239 or HUM 114	
ANP 239 or HUM 114 or PHL 125 or PHL 228	

UDM EQUIVALENCIES

CHM 107/110	General Chemistry I/ Lab
CHM 108/112	General Chemistry II/ Lab
E 105	Engr Graphics and Design
E 312	Statics
E 326	Mechanics of Materials
E 313	Dynamics
MTH 141	Analytic Geom & Calculus I
MTH 142	Analytic Geom & Calculus II
MTH 241	Analytic Geom & Calculus III
MTH 372	Diff Equ w/Linear Algebra
E 204	Intro to Engr Computing
PHY 160/161	General Physics I/ Lab
PHY 162/163	General Physics II/ Lab

CST 101	Fund of Speech (Obj 1)
ENL 131	Academic Writing (Obj 1)
ENL 303	Technical Writing
PHL 100	Intro to Philosophy (Obj 4)
Choose 1	Religious Studies course (Obj 4)
Choose 1	add'l Relig Stds or Phil (Obj 4)

¹ Not required by Electrical/Computer Engineering program. Note: CEM 122 or another science course may be used to fulfill the requirement for Mechanical and Manufacturing Engineering – consult with UDM advisor.

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.

Alpena Community College courses:

Anthropology: ANP 121, 229

English: ENG 203-224, 243, 244

Geography: GEO 126

History: HST 121-228

Humanities: HUM 241, 242

Music: MUS 110

Political Science: PLS 230

Foreign Language (only one course may be used to fulfill the OBJ 5 Requirements)

UDM HIGHLIGHTS

Great Reputation – For the eighth consecutive year, University of Detroit Mercy is listed in the top tier of Midwestern Master's Universities in the 2009 edition of the *U.S. News and World Report's* "America's Best Colleges." The University was ranked one of the top 25 schools in its category and the highest-ranking school in Michigan. Also, UDM engineering programs are accredited by ABET.

UDM is affordable! About 75% 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.

Students from Alpena and surrounding areas are encouraged to inquire about the Hank Nickol-Alpena Scholarship. Up to \$10,000 is available for qualified students.

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! - 100% of UDM graduating engineering students in August 2007 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 many Engineering and Science organizations or 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!