



MOTT COMMUNITY COLLEGE EQUIVALENCY GUIDE

COLLEGE OF ENGINEERING AND SCIENCE

COMPUTER SCIENCE AND MATHEMATICS 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. Students may transfer a maximum of 63 semester hours toward a Bachelor's Degree. According to transfer policy, additional courses not on this guide may also be transferable. The three options are B.S. in Computer Science, B.S. degree in Mathematics, or B.A. degree in Mathematics. For more information or to arrange a campus visit, please contact an Admissions Counselor at 313-993-1245, 800-635-5020, or admissions@udmercy.edu.

UDM website: www.udmercy.edu

MOTT COMMUNITY COLLEGE COURSES

Major Courses:

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| COMS 171 | Introduction to C++ |
| COMS 280 | Advanced Programming in C++ ¹ |
| MATH 170 | Analytic Geometry and Calculus I |
| MATH 180 | Analytic Geometry and Calculus II |
| MATH 250 | Multivariable Calculus ² |
| MATH 270 | Linear Algebra ³ |
| MATH 280 | Differential Equations ⁴ |

Core Curriculum Courses:

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| COMM 131 | Fundamentals of Communication |
| ENGL 102 | English Composition II |
| ASTR 117, 118; BIOL 107, 111, 125-156, 211-227; | |
| CHEM 111-132, 237, 238; GEOL 151, 152; | |
| PHSC 191, 192; PHYS 281-288; SCI 101 | |
| PHIL 101 | Introduction to Philosophy |
| PHIL 165, 251 | |
| PHIL 103, 190, 297 | |
| PHIL 295 | Ethics |

UDM EQUIVALENCIES

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|---------|-------------------------------|
| CSC 171 | Intro to Computer Science I |
| CSC 172 | Intro to Computer Science II |
| MTH 141 | Analytic Geom & Calculus I |
| MTH 142 | Analytic Geom & Calculus II |
| MTH 241 | Analytic Geom & Calculus III |
| MTH 402 | Linear Algebra |
| MTH 372 | Differential Equ w/Linear Alg |

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| CST 101 | Fund of Speech (Obj 1) |
| ENL 131 | Academic Writing (Obj 1) |
| Choose two Natural Science courses (Obj 3) | (minimum six credits) |
| PHL 100 | Intro to Philosophy (Obj 4) |
| Choose one Religious Studies course (Obj 4) | |
| Choose one add'l Philosophy course (Obj 4) | |
| PHL 201 | Ethics (Obj 6A) |

¹ Required only by the B.S. Computer Science program – may be used as an elective in the Math programs.

² Required by the Math programs - may be used as a technical elective in the B.S. Computer Science program.

³ Required by the B.S. Math program - may be used as a technical elective in the B.S. Computer Science and B.A. Math (Secondary track) programs.

⁴ Required by the B.S. Math and B.S. Computer Science programs- may fulfill requirement for B.A. Math.

Objective 5 Courses (select up to three*):

HIST 112-155, 253-299

Historical Experience courses (Obj 5A)

ENGL 220-261

Literary Experience courses (Obj 5B)

ART 110-116, 131-135, 141, 142, 214-231,
235-238, 261-274, 281; ENGL 271; FILM 181-250;
MUS 180-182, 186, 271- 273; THTR 254, 256

Aesthetic Experience courses (Obj 5C)

ANTH 200, 211; ARBC 111, 112; ART 243; CHI 111;
FILM 251; FREN 151-252; GEOG 142, 147, 243;
GERM 111-212; HREL 151; JAPA 111-212; MUS 183;
PSCN 275; RUSN 111-112; SOCY 294; SPAN 160-295

Comparative Experience courses (Obj 5D)

* Choose any combination for a total of two courses from objectives 5A, 5B and 5C above. Choose one course from objective 5D.

HIGHLIGHTS

Great Reputation - For the seventh consecutive year, University of Detroit Mercy is listed in the top tier of Midwestern Master's Universities in the 2008 edition of the *U.S. News and World Report's* "America's Best Colleges." In the magazine's "Great Schools, Great Prices" listing, UDM ranked third in its category. According to *U.S. News*, this ranking highlights the best financial value as it relates to a school's academic quality.

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 313-993-1245 or admissions@udmercy.edu.

Co-op Leader – All computer science and mathematics students at UDM are highly encouraged to participate in the co-op program, which integrates real practice with a rigorous on-campus education. Besides valuable experience, students earn an average of over \$9,000 during each co-op rotation. This provides a significant amount of income for tuition. Previous related work experience can be considered for transfer credits.

Five Year BS/MS Degree – An option to complete both Bachelor's and Master's degrees in five years is now available in Computer Science. There are two concentrations for the Master's Program: Computer Applications and Software Engineering.

Career Paths - The B.S. /B.A. degrees in computer science and mathematics prepare students for numerous career choices, including: teaching, actuarial positions, industrial jobs and research. Our students are also accepted into M.S. and Ph.D. programs.

Excellent Faculty – UDM's small classes are taught by experienced professors (not teaching assistants) who help foster a positive learning environment. Faculty conduct research, receive grant money for laboratory 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, is easily accessible from many major freeways (including I-75), and 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!