



MACOMB COMMUNITY COLLEGE EQUIVALENCY GUIDE
COLLEGE OF ENGINEERING AND SCIENCE
COMPUTER SCIENCE AND MATHEMATICS

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 UDM 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

MACOMB COMMUNITY COLLEGE COURSES

Major Courses:

ITCS 2530	C++ Programming 1
ITCS 2550	C++ Programming 2 ¹
ITCS 2590	Java 1 ¹
MATH 1760	Analytic Geometry and Calculus 1
MATH 1770	Analytic Geometry and Calculus 2
MATH 2760	Analytic Geometry and Calculus 3 ²
MATH 2000	Introduction to Linear Algebra
MATH 2770	Differential Equations ³

Core Curriculum Courses:

ENGL 1190	Communications 2 or
ENGL 1220	Composition 2
SPCH 1060	Speech Communication

BIOL 1000, 1010, 2110, 2310, 2710; BTEC 2540;
 CHEM 1050, 1060-2260, 2280; ENVS 1050;
 GEOL 1080-1150; NATS 1200, 1210, 1310;
 PHSA 1050; PHYS 1180-2230

PHIL 2010	Introduction to Philosophy
HUMN 1700, 2000	
HUMN 1700, 2000; PHIL 2120, 2200, 2400	
PHIL 2100	Introduction to Ethics

UDM EQUIVALENCIES

CSC 1710	Intro Computer Science I
CSC 1720	Intro Computer Science II
CSC 4130	Java
MTH 1410	Analytic Geom & Calculus I
MTH 1420	Analytic Geom & Calculus II
MTH 2410	Analytic Geom & Calculus III
MTH 4020	Linear Algebra w/Applications
MTH 3720	Dif Equations w/ Linear Alg

ENL 1310	Academic Writing (Obj 1)
CST 1010	Fund of Speech (Obj 1)

Choose two Natural Science courses (Obj 3)

PHL 1000	Intro to Philosophy (Obj 4)
	Choose 1 Religious Studies course (Obj 4)
	Choose 1 add'l Phil or Relig Studies (Obj 4)
PHL 2010	Ethics (Obj 6A)

¹ Required for the B.S. Computer Science program – may be used as an elective for B.A. Math and B.S. Math.

² Required for the B.A. Math and B.S. Math programs - may be used as a technical elective for B.S. Computer Science.

³ Required for the B.S. Math program.

Objective 5 Courses (select up to three*):

Additional courses not listed may also transfer.

HIST 1500, 2100, 2200, 2420, 2520; INTL 2000	Historical Experience courses (Obj 5A)
ENGL 2600, 2610	Literary Experience courses (Obj 5B)
HUMN 1210, 1250, 1300, 1460-1479; THEA 1100, 1150	Aesthetic Experience courses (Obj 5C)
ANTH 1000; ARAB 1260, 1270; CHIN 1260, 1270; FREN 1260-2370; GEOG 2000; GRMN 1260-2370; HUMN 1750; ITAL 1260-2370; POLS 1900, 1950; PSYC 2500; SOSC 2010; SPAN 1260-2370; SPCH 2300	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 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.

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 available in Computer Science. There are two concentrations for the Master's Program: Computer Applications and Software Engineering.

Career Paths – The B.S. in Computer Science and the B.S. /B.A. degrees in 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 and is close to numerous corporations including many companies' headquarters. We invite you to visit!