



ST. CLAIR COUNTY 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. 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

ST CLAIR COUNTY COMM COLLEGE COURSES UDM EQUIVALENCIES

Major Courses:

CIS 264	C++ Programming for Engineers	CSC 171	Intro to Computer Science I
ENG 104	Technical Report Writing ¹	ENL 303	Technical Writing
MTH 114	Analytic Geometry and Calculus I	MTH 141	Analytic Geom & Calculus I
MTH 215	Analytic Geometry and Calculus II	MTH 142	Analytic Geom & Calculus II
MTH 216	Analytic Geometry and Calculus III ²	MTH 241	Analytic Geom & Calculus III
MTH 210	Linear Algebra ³ and	MTH 402	Linear Algebra w/Apps and
MTH 217	Differential Equations ³	MTH 372	Diff Equations w/ Linear Alg

B.S. Computer Science also requires: (may be used as technical electives in B.S. Math or B.A. Math)

CIS 202	Microcomputer Databases	CSC 354	Database Systems & Prog
CIS 233	Linux + Certification	CSC 317	Linux Systems Programming

Many other select CIS courses may be used as Technical Electives in the CS program. Please consult with a UDM advisor.

Core Curriculum Courses:

ENG 102	English Composition II	ENL 131	Academic Writing (Obj 1)
SPC 101	Speech Communication	CST 101	Fund of Speech (Obj 1)
AST 104, 105; BIO 100-270; CHM 101-216;			Choose two Natural Science courses (Obj 3)
GEO 101, 105; GLG 101, 102; PHS 101;			
PHY 110, 121-232			
PHL 210	Introduction to Philosophy	PHL 100	Intro to Philosophy (Obj 4)
PHL 215	Introduction to Logic	PHL 150	Intro to Logic (Obj 4)
PHL 220	Religions of the World	RS 100	Intro to Religion (Obj 4)

¹ Required by the B.S. Math and B.S. Computer Science programs - may be used as an elective in the B.A. Math program.

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

³ Linear Algebra may transfer by itself, but in order to transfer MTH 372, both Linear Algebra and Differential Equations must be taken at SC4.

B.S. Math: both MTH 402 and MTH 372 are required.

B.S. Computer Science: MTH 402 is required; MTH 372 may be used as a technical elective.

B.A. Math: MTH 402 fulfills requirement; MTH 372 may be used as a technical elective for the B.A.

Secondary track.

Objective 5 Courses (select up to three*):

HIS 101-175, 233-297	Historical Experience courses (Obj 5A)
ENG 205-246	Literary Experience courses (Obj 5B)
ART 102, 103, 104-108, 109, 110-115, 120-123, 203; ENG 255; MUS 106, 208, 230-231; THA 101, 106, 208	Aesthetic Experience courses (Obj 5C)
ANT 171; FR 101-204; GEO 102, 233; GR 101-204; SP 101-204	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 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 is in the top 6% of 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. 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 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 25 College of Engineering and Science organizations or numerous University clubs.

We are Closer than you may think! - UDM, located in a residential area of Northwest Detroit, is easily accessible from I-94 and most major freeways in the Detroit area. We invite you to visit!