



**NORTHWESTERN MICHIGAN 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

NORTHWESTERN MICH COLLEGE COURSES

UDM EQUIVALENCIES

Major Courses:

CIS 255	JAVA Programming - An Introduction	CSC 171	Intro to Computer Science I
ENG 220	Technical Writing ¹	ENL 303	Technical Writing
MTH 141	Calculus I	MTH 141	Analytic Geom & Calc I
MTH 142	Calculus II	MTH 142	Analytic Geom & Calc II
MTH 241	Calculus III ²	MTH 241	Analytic Geom & Calc III
MTH 251	Differential Equations ³	MTH 372	Differential Eq w/Linear Alg

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

CIS 212	Intro to Database Management	CSC 354	Database Systems & Prog
CIS 233	Project Management	CSC 457	Software Project Mgmt
CIS 256	Linux Administration	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:

COM 111	Public Speaking	CST 101	Fund of Speech (Obj 1)
ENG 112	English Composition	ENL 131	Academic Writing (Obj 1)
AST 109, 119; BIO 105-215, 227, 228, 250-268;			Choose 2 Natural Science courses (Obj 3)
CHM 101-251; ENV 103-112, 117-231; PHY 105-222			
PHL 101	Introduction to Philosophy	PHL 100	Intro to Philosophy (Obj 4)
PHL 121-182, 222			Choose 1 Religious Studies course (Obj 4)
PHL 105-182, 202, 222			Choose 1 add'l Phl or Rel Std (Obj 4)
PHL 201	Ethics	PHL 201	Ethics (Obj 6A)

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 the B.A. Math and B.S. Math programs - may be used as a technical elective in the B.S. Computer Science program.

³ Required by the B.S. Math and B.S. Computer Science programs - may fulfill requirement in the B.A. Math program.

Objective 5 Courses (select up to three*):

HST 101-235

Historical Experience courses (Obj 5A)

ENG 240-271

Literary Experience courses (Obj 5B)

ART 100-132, 161-166, 181-221; ENG 267;
HUM 101-112; MUS 110, 111; THR 151

Aesthetic Experience courses (Obj 5C)

ART 116; ENG 242; GEO 109; MLF 101-202;
MLS 121-222; PLS 132; SOC 113

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.

UDM FAST FACTS

US News and World Report Ranking – For the fifth consecutive year, University of Detroit Mercy ranks in the top tier of Midwestern Master's Universities in the 2006 edition of the *U.S. News and World Report's* "America's Best Colleges." UDM is the top ranking Michigan university in this category and is rated number five in the Midwestern Master's category for the institution's strong "Campus Diversity."

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.

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.

Teaching Scholars – The faculty of the College of Engineering and Science has become a community of *teaching scholars*, leading the nation in attracting National Science Foundation grants (more than 30 in recent years) for laboratory instrumentation and curriculum development. All equipment is used in undergraduate instructional labs. Faculty members, not teaching assistants, teach all major courses.

Student Leadership – To gain professional, technical and social connections, we highly encourage participation in at least one of the 25 College organizations or numerous University clubs.

Location - UDM, located in Northwest Detroit, is close 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!