



OAKLAND 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

OAKLAND COMMUNITY COLLEGE COURSES

UDM EQUIVALENCIES

Major Courses:

CIS 2252	Object-Oriented Programming (C++)	CSC 171	Intro to Computer Science I
ENG 2200	Professional Communication ¹	ENL 303	Technical Writing
MAT 1730	Calculus I	MTH 141	Analytic Geom & Calculus I
MAT 1740	Calculus II	MTH 142	Analytic Geom & Calculus II
MAT 2740	Calculus III ²	MTH 241	Analytic Geom & Calculus III
MAT 2810	Differential Equations ³	MTH 372	Differential Equ w/Linear Alg
MAT 2880	Linear Algebra ⁴	MTH 402	Linear Alg with Applications

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

CIS 2212	Information Technology Project Mgmt	CSC 457	Software Project Mgmt
CIS 2434	Intro to Linux/Unix Administration	CSC 317	Linux Systems Programming
CIS 2515 or CIS 2616 or CIS 2737		CSC 354	Database Systems & Prog
Other select CIS courses (including CIS 1722, 2111, 2250, 2313, 2333, 2454, 2535, 2555, 2636, 2717, 2757, 2818, 2838, 2839, 2845, 2858 and 2859) may be used as Technical Electives in the CS program. Please consult with a UDM advisor.			

Core Curriculum Courses:

ENG 1520	Composition II	ENL 131	Academic Writing (Obj 1)
SPE 1610	Fundamentals of Speech	CST 101	Fund of Speech (Obj 1)
BIO 1320-2560, 2630-2840; CHE 1000-2620;		Choose two Natural Science courses (Obj 3)	
FSN 1500; GSC 1530-1620; PHY 1030-2520; PSC 1560			
PHI 1510	Introduction to Philosophy	PHL 100	Intro to Philosophy (Obj 4)
HUM 1710, 2720		Choose 1 Religious Studies course (Obj 4)	
HUM 1710, 2720; PHI 1520, 1710		Choose 1 add'l Phil or Relig Studies (Obj 4)	
PHI 1610	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 B.A. Math program.

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

³ Required by B.S. Math and B.S. Computer Science - may fulfill requirement for B.A. Math.

⁴ Required by B.S. Math - may be used as a technical elective for B.S. Computer Science or for B.A. Math - Secondary track.

Objective 5 Courses (select up to three*):

HIS 1510-1550, 1700-2620	Historical Experience courses (Obj 5A)
ENG 1610, 1710, 1720, 2300-2560, 2750-2770	Literary Experience courses (Obj 5B)
ART 1550, 1560, 1700, 2510, 2520, 2560-2620; FSH 1500; HUM 1510, 1520, 1900, 2900; MUS 1540-1560, 1585, 1590, 1685; THE 1561, 1571, 1800	Aesthetic Experience courses (Obj 5C)
ANT 1540-2750; ARB 1510-2620; CHI 1510-2620; FRE 1510-2620; GEO 1520; GER 1510-2620; ITA 1510-2610; JPN 1510-2620; POL 2610; RUS 1510-2620; SOC 2530; SPA 1510-2620	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 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.

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 most major freeways. We invite you to visit!