



# WAYNE COUNTY COMMUNITY COLLEGE DISTRICT EQUIVALENCY GUIDE

## Computer Science and Mathematics College of Engineering and Science

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](http://www.udmercy.edu)

### WAYNE CCC DISTRICT COURSES

#### Major Courses:

CIS 209	C Programming Language
CIS 259	C++ Object Oriented Programming <sup>1</sup>
ENG 270	Professional & Technical Report Writing <sup>2</sup>
MAT 171	Analytic Geometry and Calculus I
MAT 172	Analytic Geometry and Calculus II
MAT 271	Analytic Geometry and Calculus III <sup>3</sup>
MAT 272	Linear Algebra <sup>4</sup> <b>and</b>
MAT 273	Intro to Ordinary Differential Equations <sup>4</sup>

### UDM EQUIVALENCIES

CSC 171	Intro to Computer Science I
CSC 172	Intro to Computer Science II
ENL 303	Technical Writing
MTH 141	Analytic Geom & Calculus I
MTH 142	Analytic Geom & Calculus II
MTH 241	Analytic Geom & Calc III
MTH 402	Linear Algebra <b>and</b>
MTH 372	Diff Equations w/Linear Alg.

#### Core Curriculum Courses:

ENG 120	English II
SPH 101	Fundamentals of Speech
AST 101; BIO 151-295; CHM 105-252; ENR 101, 201; GEL 210; PHY 115-275	
PHL 201	Introduction to Philosophy
PHL 101, 102	
PHL 101, 102, 211, 221	
PHL 221	Ethics

ENL 131	Academic Writing (Obj 1)
CST 101	Fund of Speech (Obj 1)
	Choose 2 Natural Science courses (Obj 3)
PHL 100	Intro to Philosophy (Obj 4)
	Choose 1 Religious Studies course (Obj 4)
	Choose 1 add'l Phil. or Relig. Stds. (Obj 4)
PHL 201	Ethics (Obj 6A)

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

<sup>2</sup> Required by the B.S. Math and B.S. Computer Science programs – may be used as an elective in B.A. Math program.

<sup>3</sup> Required by the Math programs – may be used as a technical elective in the B.S. Computer Science program.

<sup>4</sup> Linear Algebra may transfer by itself, but in order to transfer MTH 372, both Linear Algebra and Differential Equations must be taken at WCCCD. B.S. Math: both MTH 402 and MTH 372 are required. B.S. Computer Science: MTH 402 is required; MTH 372 may be 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:

AAS 150; HIS 151-262	Historical Experience courses (Obj 5A)*
AAS 253; ENG 212-266, 285	Literary Experience courses (Obj 5B)*
AAS 175; HUM 101-232; MUS 121; THEA 151	Aesthetic Experience courses (Obj 5C)*
AAS 120, 180; ANT 152, 154; ARA 101, 102; ENG 290, 292; FRE 101-202; GEG 202; JPN 101, 102; MWS 101-103; SPA 101-202; SOC 230; WS 218	Comparative Experience courses (Obj 5D)*

\* Choose any combination for a total of two courses from objectives 5A, 5B and 5C above. Choose 1 course from objective 5D.

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## FAST FACTS

**US News and World Report Ranking** – The 2005 edition of the *U.S. News and World Report's* “America’s Best Colleges” ranks the University of Detroit Mercy as one of the top 25 Midwestern master’s universities – the highest ranked of all Michigan schools in this category. UDM is also featured as one of only 15 Midwest universities in the magazine’s “Best Values: Great Schools at Great Prices” category.

**5 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 Masters program: Computer Applications and Software Engineering.

**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.

**Scholarships** – UDM has several internally and externally funded scholarships (including full tuition grants) established for transfer students. Contact the Admissions office at 313-993-1245 or [admissions@udmercy.edu](mailto:admissions@udmercy.edu) to determine if you qualify.

**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 easily accessible from most major freeways. We invite you to visit!