



**HENRY FORD 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](mailto:admissions@udmercy.edu).

UDM website: [www.udmercy.edu](http://www.udmercy.edu)

**HENRY FORD COMM COLLEGE COURSES**

**UDM EQUIVALENCIES**

**Major Courses:**

CIS 170	“C” Programming <b>and</b>	CSC 171	Intro to Computer Sci I <b>and</b>
CIS 230	C++ Programming <sup>1</sup>	CSC 172	Intro to Computer Sci II
ENG 135	Business & Technical Writing & Research <sup>2</sup>	ENL 303	Technical Writing
MATH 180	Calculus I	MTH 141	Analytic Geom & Calculus I
MATH 183	Calculus II	MTH 142	Analytic Geom & Calculus II
MATH 280	Calculus III <sup>3</sup>	MTH 241	Analytic Geom & Calculus III
MATH 283	Linear Algebra <sup>4</sup>	MTH 402	Linear Algebra
MATH 289	Differential Equations <sup>5</sup>	MTH 372	Diff Equations w/Linear Alg

**Core Curriculum Courses:**

ENG 132	College Writing and Research	ENL 131	Academic Writing (Obj 1)
SPC 131	Fundamentals of Speaking	CST 101	Fund of Speech (Obj 1)
ASTR 131, 231; ATMS 131; BIO 130-138, 141-251; CHEM 131-142, 241, 242; GEOL 131; PHYS 120-243, PSCI 131, 135; SCI 131		Choose two Natural Science courses (Obj 3)	
PHIL 137	Topics in Philosophy	PHL 100	Intro to Philosophy (Obj 4)
WR 130-233		Choose 1 Religious Studies course (Obj 4)	
PHIL 131-135; WR 130-240		Choose 1 Phil or Relig Studies course (Obj 4)	
PHIL 139	Ethics	PHL 201	Ethics (Obj 6A)

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

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

<sup>5</sup> Required by the B.S. Math program -may be used as a technical elective for B.S. Computer Science or B.A. Math programs.

### **Objective 5 Courses (select up to three)\*:**

HIST 111-255, 260, 262 Historical Experience courses (Obj 5A)

ENG 231-241, 245, 248 Literary Experience courses (Obj 5B)

ART 101, 102, 105, 121-130, 135, 141, 224; HUM 101;  
MUS 130-133, 232, 233; STH 131, 132, 238; TCM 132 Aesthetic Experience courses (Obj 5C)

ANTH 131-152; ARA 131-231; CHN 131; ENG 243;  
FRE 131-232; GEOG 132; GER 131-231; HIST 257;  
HONORS 251; ITAL 131-132; SOC 251; SPN 131-232; 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 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!** About 75% 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](mailto: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.

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