



# WAYNE COUNTY COMMUNITY COLLEGE DISTRICT EQUIVALENCY GUIDE

## Biochemistry and Chemistry 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. degree in Biochemistry, B.S. degree in Chemistry, or B.A. degree in Chemistry. For more information or to arrange a campus visit, please contact an Admissions Counselor at 800-635-5020, 313-993-1245, or [admissions@udmercy.edu](mailto:admissions@udmercy.edu).

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

### WAYNE CCC DISTRICT COURSES

#### Major Courses:

BIO 155	Introductory Biology
BIO 175	Zoology
CHM 136	General Chemistry I
CHM 145	General Chemistry II
CHM 250	Organic Chemistry I
CHM 252	Organic Chemistry II
CHM 255	Laboratory for Organic Chemistry
MAT 171	Analytic Geometry and Calculus I
MAT 172	Analytic Geometry and Calculus II

NOTE: B.S. in Chemistry also requires:

MAT 271	Analytic Geometry and Calculus III
PHY 265	Physics for Scientists & Engineers I
PHY 275	Physics for Scientists & Engineers II

NOTE: B.S. in Biochemistry/B.A. in Chemistry also require:

PHY 235	General Physics I
PHY 245	General Physics II

NOTE: B.A. in Chemistry also requires **one** of the following:

ECO 101, 102; PS 104; PSY 101; SOC 100

### UDM EQUIVALENCIES

BIO 120/121	General Biology I/Lab
BIO 122/123	General Biology II/Lab
CHM 107/110	General Chemistry I/Lab
CHM 108	General Chemistry II
CHM 227	Organic Chemistry I
CHM 229	Organic Chemistry II
CHM 228	Organic Chemistry Lab I
MTH 141	Analytic Geom & Calculus I
MTH 142	Analytic Geom & Calculus II

MTH 241	Analytic Geom & Calc III
PHY 160/161	General Physics I/Lab
PHY 162/163	General Physics II/Lab

PHY 130/131	General Physics I/Lab
PHY 132/133	General Physics II/Lab

Choose 1 Social Sciences course (Obj 3)

#### Core Curriculum Courses:

ENG 120	English II
SPH 101	Fundamentals of Speech
BUS 225	Computer Application in Business
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)
CIS 100	Intro to Computers (Obj 2)
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)

## 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)*

\* B.S. Chemistry and B.S. Biochemistry only require 2 courses total from objectives 5A, 5B, 5C above (both may not be from same group) and 1 course from objective 5 D. B.A. Chemistry requires one course from each objective: 5A, 5B, 5C, 5D.

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## FAST FACTS

- The 2005 edition of the *U.S. News and World Report's* "America's Best Colleges" placed the University of Detroit Mercy among the top 25 Midwestern master's universities and **first in Michigan** in our category. UDM is also one of 15 Midwest universities in the magazine's "**Best Values: Great Schools at Great Prices**" category.
- The B.S. /B.A. degrees in chemistry and biochemistry prepare students for **numerous career choices**, including **teaching, medical forensics, and industrial research**. Our students are accepted into M.S. and Ph.D. programs, as well as professional schools, including **medical, dental, physician assistant, veterinary, pharmacy, podiatry, optometry, chiropractic, and law**.
- **Acceptance rates** for UDM students into **Medical Schools: 85%** (national average is ~68%); **Dental Schools: 75%** (national average is ~62%).
- All Department of Chemistry and Biochemistry faculty have active research programs and take **undergraduate students into their laboratories**. Undergraduates have been co-authors on numerous research publications and have attended both regional and national scientific meetings.
- A number of academic **scholarships** and summer **research fellowships** are available for Chemistry and Biochemistry majors.
- The **UDM Chemistry Club** has received "**Outstanding**" or "**Commendable**" **Recognition** by the American Chemical Society for the past 10 years.
- The **Mexican American Partnership (MAP)** program is available for all majors. Participating students spend one to two semesters at Monterrey Tech in Mexico. Students may also study abroad in Australia.
- The Department of Chemistry and Biochemistry has recently been awarded **7 major grants** for state-of-the-art instrumentation that undergraduates use in lab courses and research.