



NORTHWESTERN MICHIGAN COLLEGE
EQUIVALENCY GUIDE
COLLEGE OF ENGINEERING AND SCIENCE
BIOCHEMISTRY AND CHEMISTRY 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 a B.S. degree in Biochemistry, B.S. degree in Chemistry, or a 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.

UDM website: www.udmercy.edu

NORTHWESTERN MICHIGAN COLLEGE COURSES

UDM EQUIVALENCIES

Major Courses:

BIO 115	Cell, Plant and Ecosystem Biology and Lab	BIO 120/121	General Biology I/ Lab
BIO 116	Cell and Animal Biology and Lab	BIO 122/123	General Biology II/ Lab
CHM 150	General Chemistry I and Lab	CHM 107/110	General Chemistry I/ Lab
CHM 151	General Chemistry II	CHM 108	General Chemistry II
CHM 250	Organic Chemistry I and Lab	CHM 227/228	Organic Chemistry I/ Lab
CHM 251	Organic Chemistry II	CHM 229	Organic Chemistry II
MTH 141	Calculus I	MTH 141	Analytic Geom & Calculus I
MTH 142	Calculus II	MTH 142	Analytic Geom & Calculus II

NOTE: B.S. in Chemistry also requires:

MTH 241	Calculus III	MTH 241	Analytic Geom & Calculus III
PHY 221	Probs & Principles of Physics I and Lab	PHY 160/161	General Physics I/Lab
PHY 222	Probs & Principles of Physics II and Lab	PHY 162/163	General Physics II/Lab

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

PHY 121	General Physics I and Lab	PHY 130/131	General Physics I/ Lab
PHY 122	General Physics II and Lab	PHY 132/133	General Physics II/ Lab

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

ECO 201-202; PLS 101; PSY 101; SOC 101 Choose one Social Sciences class (Obj 3)

Biochemistry Elective Course:

BIO 215	Genetics	BIO 270	Genetics
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Core Curriculum Courses:

COM 111	Public Speaking	CST 101	Fund of Speech (Obj 1)
ENG 112	English Composition	ENL 131	Academic Writing (Obj 1)
CIS 100	Computers in Business - An Introduction	CIS 100	Intro to Computers (Obj 2)
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 course (Obj 4)
PHL 201	Ethics	PHL 201	Ethics (Obj 6A)

Objective 5 Courses *:

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)

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

FAST FACTS

- The 2006 edition of the *U.S. News and World Report's* "America's Best Colleges" ranked University of Detroit Mercy in the top tier of Midwestern Master's Universities for the fifth consecutive year. UDM is the **top ranking Michigan university** in this category. UDM is also rated number five in the Midwestern Master's category for the institution's strong "Campus Diversity."
- 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 work with **undergraduate students in 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 11 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.