



JACKSON COMMUNITY 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. 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 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 313-993-1245, 800-635-5020 or admissions@udmercy.edu.

UDM website: www.udmercy.edu

JACKSON COMMUNITY COLLEGE COURSES

Major Courses:

BIO 131	General Biology
BIO 152	General Zoology
CEM 141	General Chemistry I
CEM 142	General Chemistry II
CEM 241	Organic Chemistry I
CEM 242	Organic Chemistry II
MTH 151	Calculus I
MTH 154	Calculus II

UDM EQUIVALENCIES

BIO 120/121	General Biology I/ Lab
BIO 122/123	General Biology II/ Lab
CHM 107/110	General Chemistry I/ Lab
CHM 108/112	General Chemistry II/ Lab
CHM 227/225	Organic Chemistry I/ Lab
CHM 229/226 ¹	Organic Chemistry II/ Lab
MTH 141	Analytic Geom & Calculus I
MTH 142	Analytic Geom & Calculus II

NOTE: B.S. in Chemistry also requires:

MTH 251	Calculus III
PHY 251	Modern University Physics I
PHY 252	Modern University Physics II

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

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

PHY 231	College Physics I
PHY 232	College Physics II

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

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

ECN 231, 232; PLS 141, PSY 140, SOC 231

Choose one Social Sciences course (Obj 3)

Core Curriculum Courses:

COM 231	Communication Fundamentals
ENG 132	Writing Experience
CIS 101	Intro to Computer Systems or
CIS 112	Microsoft Office® Professional Introduction
PHL 231	Introduction to Philosophy
PHL 243	Great World Religions
PHL 232	Logic
PHL 236	Ethics

CST 101	Fund of Speech (Obj 1)
ENL 131	Academic Writing (Obj 1)
CIS 100	Intro to Computers (Obj 2)
PHL 100	Intro to Philosophy (Obj 4)
Choose 1 Religious Studies Course (Obj 4)	
PHL 150	Logic (Obj 4)
PHL 201	Ethics (Obj 6A)

¹ Note: UDM's CHM 230 (not CHM 226) is required for Biochemistry/Chemistry majors.

Objective 5 Courses*:

HIS 120-235	Historical Experience courses (Obj 5A)
ENG 210, 246-252, 255-257	Literary Experience courses (Obj 5B)
ART 101-121, 152, 201; HUM 131; MUS 130-132; THR 116, 145	Aesthetic Experience courses (Obj 5C)
ANT 131; FRN 131, 132; GEO 132; GER 131, 132; SPN 131-232	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 the same group) and one course (minimum of 3 credits) from objective 5 D. B.A. Chemistry requires one course from each objective: 5A, 5B, 5C, 5D.

HIGHLIGHTS

- 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**.
- 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**.
- 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 over the past 14 years. The Chem Club was also recognized with the 2004-05 and 2006-07 "Green Chemistry" Chapter award.
- Students majoring in Chemistry or Biochemistry have the option to **study abroad** for one or two semesters.
- The Department of Chemistry and Biochemistry has recently been awarded **8 major grants** for state-of-the-art instrumentation that undergraduates use in lab courses and research.