



LANSING 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 UDM 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

LANSING COMMUNITY COLLEGE COURSES

Major Courses:

BIOL 127	Cell Biology
BIOL 128	Organismal Biology
CHEM 151	General Chemistry Lecture I
CHEM 152	General Chemistry Lecture II
CHEM 161	General Chemistry Laboratory I
CHEM 162	General Chemistry Laboratory II
CHEM 251	Organic Chemistry Lecture I
CHEM 252	Organic Chemistry Lecture II
CHEM 272	Organic Chemistry Laboratory
MATH 151	Calculus I
MATH 152	Calculus II

NOTE: B.S. in Chemistry also requires:

MATH 253	Calculus III
PHYS 251	Physics I: Mechanics
PHYS 252	Physics II: Electromag, Waves & Optics

NOTE: B.S. in Biochem./B.A. in Chem. also require:

PHYS 221	Introductory Physics I
PHYS 222	Introductory Physics II

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

ECON 120, 201, 202; POLS 120, 201; PSYC 200; SOCL 120 Choose one Social Sciences course (Obj 3)

Biochemistry Elective Course:

BIOL 270	Human Genetics
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UDM EQUIVALENCIES

BIO 1200/1210	General Biology I/Lab
BIO 1220/1230	General Biology II/Lab
CHM 1070	General Chemistry I
CHM 1080	General Chemistry II
CHM 1100	Chemistry Laboratory I
CHM 1120	Chemistry Laboratory II
CHM 2270	Organic Chemistry I
CHM 2290	Organic Chemistry II
CHM 2250 and 2260 ¹	Org Chem Labs I & II
MTH 1410	Analytic Geom & Calculus I
MTH 1420	Analytic Geom & Calculus II

MTH 2410	Analytic Geom & Calc III
PHY 1600/1610	General Physics I/Lab
PHY 1620/1630	General Physics II/Lab

PHY 1300/1310	General Physics I/Lab
PHY 1320/1330	General Physics II/Lab

BIO 2700	Genetics
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Core Curriculum Courses:

ENGL 122/132	Writing about Lit and Ideas or	ENL 1310	Academic Writing (Obj 1)
WRIT 122/132	Composition II	CST 1010	Fund of Speech (Obj 1)
SPCH 130	Fund of Public Speaking	CIS 1000	Intro to Computers (Obj 2)
CPSC 120 or CITA 110	Intro to Computers	PHL 1000	Intro to Philosophy (Obj 4)
PHIL 153	Knowledge & Reality	Choose 1 Religious Studies course (Obj 4)	
RELG 211-250		Choose 1 add'l Phil or Rel Studies (Obj 4)	
PHIL 151, 211-260; RELG 211-250		PHL 2010	Ethics (Obj 6A)
PHIL 152	Intro to Ethics		

¹ Note: UDM's CHM 2300 (not CHM 2260) is required for Biochemistry/Chemistry majors.

Objective 5 Courses*:

HIST 211, 212, 214, 240, 250 Historical Experience courses (Obj 5A)

ENGL 201-203, 260 Literary Experience courses (Obj 5B)

ENGL 240; HUMS 120, 140, 211, 212;
MUSC 199, 240, 241, 246, 247; THEA 110, 120, 140 Aesthetic Experience courses (Obj 5C)

ANTH 270; ECON 260; FREN 115-202; GEOG 200;
GRMN 115-202; HUMS 214; JAPN 115-202;
POLS 260; SPAN 115-202; SPCH 280 Comparative Experience courses (Obj 5D)

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

HIGHLIGHTS

- For the ninth consecutive year, University of Detroit Mercy is listed in the **top tier of Midwestern Master's Universities** in the 2010 edition of the *U.S. News and World Report's* "America's Best Colleges." UDM was also **rated one of the top 15** institutions in the **"Great Schools, Great Prices"** category. This ranking highlights the best financial value as it relates to a school's academic quality.
- 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 15 years. The Chem Club was also recognized with the 2005, 2007, 2008, and 2009 "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.