



**ST. CLAIR COUNTY 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 800-635-5020, 313-993-1245, or admissions@udmercy.edu.

UDM website: www.udmercy.edu

ST CLAIR COUNTY COMM COLLEGE COURSES UDM EQUIVALENCIES

Major Courses:

BIO 100	Contemporary Biology	BIO 1200/1210	General Biology I/ Lab
BIO 250	General Zoology	BIO 1220/1230	General Biology II/ Lab
CHM 111	Chemistry Theory & Principles w/ Analysis	CHM 1070/1100	General Chemistry I / Lab
CHM 112	Chemistry Theory & Principles w/ Analysis	CHM 1080	General Chemistry II
CHM 215	Organic Chemistry I	CHM 2270/2250	Organic Chemistry I / Lab
CHM 216	Organic Chemistry II	CHM 2290/2260 ¹	Organic Chemistry II/Lab
MTH 114	Calculus I	MTH 1410	Analy Geom & Calculus I
MTH 215	Calculus II	MTH 1420	Analy Geom & Calculus II

Note: B.S. in Chemistry also requires:

MTH 216	Calculus III	MTH 2410	Analy Geom & Calculus III
PHY 221	Mechanics, Heat & Sound	PHY 1600/1610	General Physics I / Lab
PHY 222	Electricity, Light & Modern Physics	PHY 1620/1630	General Physics II / Lab

Note: B.S. in Biochemistry and B.A. in Chemistry also require:

PHY 121	College Physics I	PHY 1300/1310	General Physics I / Lab
PHY 122	College Physics II	PHY 1320/1330	General Physics II / Lab

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

BUS 221, 222; PS 101, 210; PSY 180; SOC 101 Choose one Social Science course (Obj 3)

Core Curriculum Courses:

ENG 102	English Composition II	ENL 1310	Academic Writing (Obj 1)
SPC 101	Speech Communication	CST 1010	Fund of Speech (Obj 1)
CIS 115	Microcomputer Applications	CIS 1000	Intro to Computers (Obj 2)
PHL 210	Introduction to Philosophy	PHL 1000	Intro to Philosophy (Obj 4)
PHL 215	Introduction to Logic	PHL 1500	Introduction to Logic (Obj 4)
PHL 220	Religions of the World	RELS 2---	Religious Studies req't (Obj 4)

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

Objective 5 Courses.* :

Additional courses not listed may also transfer.

HIS 101, 149, 150, 233	Historical Experience courses (Obj 5A)
ENG 205, 206, 207, 225	Literary Experience courses (Obj 5B)
ENG 255; THA 101, 106	Aesthetic Experience courses (Obj 5C)
ANT 171; CHI 101, 102; FR 101-204; GEO 233; GR 101-204; HIS 102; PSY 280; SP 101-204	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 5 D. B.A. Chemistry requires one course from each objective: 5A, 5B, 5C, 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.