



OAKLAND COMMUNITY COLLEGE TRANSFER GUIDE

COLLEGE OF ENGINEERING AND SCIENCE

BIOCHEMISTRY AND CHEMISTRY PROGRAMS

Entrance Requirements: Minimum 2.5 GPA based on at least 24 credits. If less than 24 credits have been taken, high school transcripts are required. Only grades of “C” (2.0) or higher may transfer. Students may transfer a maximum of 63 credits toward a Bachelor's Degree. 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

OAKLAND COMMUNITY COLLEGE COURSES

Major Courses:

BIO 1530	Biology I: Molecular & Cellular
BIO 1560	Biology II: Biodiversity & Ecology
CHE 1510	General Chemistry I
CHE 1520	General Chemistry II
CHE 2610	Organic Chemistry I
CHE 2620	Organic Chemistry II
CHE 2650	Organic Chemistry Lab
MAT 1730	Calculus I
MAT 1740	Calculus II

NOTE: B.S. in Chemistry also requires:

MAT 2740	Calculus III
PHY 2400	Engineering Physics I
PHY 2500	Engineering Physics II

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

PHY 1610	College Physics I
PHY 1620	College Physics II

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

ECO 2610, 2620; POL 1510; PSY 2510; SOC 2510

UDM EQUIVALENCIES

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

Choose one Social Science course (OB3A)

Biochemistry Elective Course:

BIO 2560	Principles of Genetics
----------	------------------------

BIO 2700	Genetics
----------	----------

Core Curriculum Courses:

ENG 1520	Composition II
COM 1600	Fundamentals of Speech
CIS 1050	Personal Computer Productivity Tools
PHI 1510	Introduction to Philosophy
HUM 1710, 2720	
HUM 1710, 2720; PHI 1520, 1710, 2710	
PHI 1610	Ethics

ENL 1310	Academic Writing (OB1)
CST 1010	Fund of Speech (OB1)
CIS 1000	Intro to Computers (OB2B)
PHL 1000	Intro to Philosophy (OB4A)
	Choose 1 Religious Studies course (OB4B)
	Choose 1 add'l Phil or Relig Studies (OB4C)
PHL 2010	Ethics (OB6A)

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 1510, 1550, 2510, 2520, 2610, 2620

Historical Experience courses (OB5A)

ENG 1610, 1710, 1720, 2510, 2520, 2530, 2540,
2550, 2560, 2750, 2760, 2770

Literary Experience courses (OB5B)

ART 1560, 1700, 2560, 2600, 2620;
FSH 1500; HUM 1510, 1520, 1900, 2100-2109, 2900;
MUS 1540, 1550, 1560, 1585, 1590, 1685;
THE 1561, 1571

Aesthetic Experience courses (OB5C)

ANT 1540, 2510, 2750; ARB 1510-2620; CHI 1510-2620; Comparative Experience courses (OB5D)
COM 2290; FRE 1510-2620; GEO 1520; GER 1510-2620;
HIS 1520; ITA 1510-2610; JPN 1510-2620; POL 2610;
RUS 1510-2620; SLS 1000, 1010-1045, 1501; SOC 2530;
SPA 1510-2620

*B.S. in Chemistry and B.S. in Biochemistry 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 eleventh consecutive year, University of Detroit Mercy is listed in the **top tier** of Midwestern Regional Universities in the 2012 edition of the *U.S. News and World Report's "America's Best Colleges."* UDM is once again ranked one of the top 25 schools in its category and is one of the highest ranking Michigan universities to make the list.
- 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 of the American Chemical Society, American Society for Biochemistry and Molecular Biology, and Society for Neuroscience.
- 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" award recognition by the American Chemical Society for almost 20 years. The Chem Club has also been recognized with "Green Chemistry" Chapter award three (3) times.
- Students majoring in Chemistry or Biochemistry have the option to **study abroad** for one or two semesters.
- The Department of Chemistry and Biochemistry has been awarded many **major grants** for state-of-the-art instrumentation that undergraduates use in lab courses and research.