



KALAMAZOO VALLEY 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 800-635-5020, 313-993-1245, or admissions@udmercy.edu.

UDM website: www.udmercy.edu

KALAMAZOO VALLEY
COMMUNITY COLLEGE COURSES

Major Courses:

BIO 101	Cellular Biology
BIO 104	Organismal Biology
CHM 120	General Chemistry I
CHM 130	General Chemistry II
CHM 220	Organic Chemistry I
CHM 230	Organic Chemistry II
MATH 160	Calculus 1 and Analytic Geometry
MATH 162	Calculus 2 and Analytic Geometry

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*	Organic Chemistry II/ Lab
MTH 141	Analytic Geom & Calculus I
MTH 142	Analytic Geom & Calculus II

NOTE: B.S. in Chemistry also requires:

MATH 260	Calculus 3 and Analytic Geometry
PHY 221	Engineering Physics I
PHY 222	Engineering 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 111	College Physics I
PHY 112	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:

ECO 201, 202; PSI 100; PSY 150; SOC 102;

Choose one Social Sciences course (Obj 3)

Biochemistry Elective Course:

BIO 201 Genetics

BIO 270 Genetics

Core Curriculum Courses:

COM 101	Public Speaking
ENG 111	College Writing II: Literature
BUS 103	Business Computer Applications
PHI 201	Introduction / Philosophy
HUM 207; PHI 209-211	
HUM 207; PHI 100, 203, 204, 209-211	
PHI 205	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)
	Choose 1 add'l Phil or Relig Studies (Obj 4)
PHL 201	Ethics (Obj 6A)

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

Objective 5 Courses*:

HRY 100-103, 207-220, 240	Historical Experience courses (Obj 5A)
ENG 201-207, 215-219; HUM 208	Literary Experience courses (Obj 5B)
ART 101-110, 132, 140, 170, 220, 221; HUM 101, 225; MUS 101, 102	Aesthetic Experience courses (Obj 5C)
COM 223; ENG 230; FRL 101-108, (both FRL 130 and 131), (both FRL 134 and 135), FRL 201-206; HRY 150, 230; HUM 130, 200, 205, 210; PSI 202; SOC 201	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 sixth consecutive year, University of Detroit Mercy is listed in the top tier of Midwestern Master's Universities in the 2007 edition of the *U.S. News and World Report's* "America's Best Colleges." UDM is the **top ranking Michigan university** in this category. In the "**Great Schools at Great Prices**" listing, UDM is in the **top 6%** of its category. According to U.S. News, 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 12 years.
- 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.