



GRAND RAPIDS 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

GRAND RAPIDS COMM COLLEGE COURSES

UDM EQUIVALENCIES

Major Courses:

BI 151	Cells, Molecules and Genes	BIO 120/121	General Biology I/Lab
BI 152	Biological Diversity	BIO 122/123	General Biology II/Lab
CM 103 or 113	General Chemistry 1/ Honors Chemistry 1	CHM 107/110	General Chemistry I/ Lab I
CM 104 or 114	General Chemistry 2/ Honors Chemistry 2	CHM 108/112	General Chemistry II/ Lab II
CM 236	Organic Chemistry 1	CHM 227	Organic Chemistry I
CM 237	Organic Chemistry Laboratory 1	CHM 225	Organic Chemistry Lab I
CM 238	Organic Chemistry 2	CHM 229	Organic Chemistry II
CM 212	Quantitative Chemical Analysis	CHM 388	Quan Analysis Lab (note: only 1 cr)
MA 133	Calculus with Analytic Geometry 1	MTH 141	Analytic Geom & Calculus I
MA 134	Calculus with Analytic Geometry 2	MTH 142	Analytic Geom & Calculus II

NOTE: B.S. in Chemistry also requires:

MA 255	Calculus with Analytic Geometry 3	MTH 241	Analytic Geom & Calculus III
PH 245	Calculus Physics I	PHY 160/161	General Physics I/Lab
PH 246	Calculus Physics II	PHY 162/163	General Physics II/Lab

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

PH 125	College Physics I	PHY 130/131	General Physics I/Lab
PH 126	College Physics II	PHY 132/133	General Physics II/Lab

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

EC 251, 252; PS 110; PY 201; SO 251 Choose one Social Sciences course (Obj 3)

Biochemistry Elective Course:

BI 232	Non-laboratory Genetics	BIO 270	Genetics
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Core Curriculum Courses:

EN 102	English Composition 2	ENL 131	Academic Writing (Obj 1)
SC 131	Fundamentals of Public Speaking	CST 101	Fund of Speech (Obj 1)
CO 101/156	Intro to Computer Applications/ Excel	CIS 100	Intro to Computers (Obj 2)
HU 281	Exploring World Religions	RS 100	Intro to Religion (Obj 4)
PL 201	Introduction to Philosophy	PHL 100	Intro to Philosophy (Obj 4)
PL 202, 206, 207, 209			Choose 1 add'l Philosophy course (Obj 4)
PL 205	Introduction to Ethics	PHL 201	Ethics (Obj 6A)

Objective 5 Courses*:

HS 101-295	Historical Experience courses (Obj 5A)
EN 233-242, 252-262, 271-282	Literary Experience courses (Obj 5B)
AT 105-150, 270, 271; HU 204-210, 273, 274; MU 107, 109, 235-237; TH 245, 248	Aesthetic Experience courses (Obj 5C)
AN 201, 210, 280; EN 270; FR 101-232; GE 135, 210; GR 101-232; PS 201, 215, 225; SO 260, 295; SP 101, 102, 231, 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 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 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.