



MOTT 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

MOTT COMMUNITY COLLEGE COURSES

Major Courses:

BIOL 111/L Fundamentals of Biology and Lab
BIOL 125/L Zoology and Lab
CHEM 131/L General Chemistry I and Lab
CHEM 132/L General Chemistry II and Lab
CHEM 237/L Organic Chemistry I and Lab
CHEM 238 Organic Chemistry II
MATH 170 Analytic Geometry and Calculus I
MATH 180 Analytic Geometry and Calculus II

NOTE: B.S. in Chemistry also requires:

MATH 250 Multivariable Calculus
III
PHYS 287/L General Physics I and Lab
PHYS 288/L General Physics II and Lab

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

PHYS 281/L General College Physics I and Lab
PHYS 282/L General College Physics II and Lab

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

ECON 221-222; PSCN 171; PSYC 281; SOCY 191

Biochemistry Elective Courses:

BIOL 151/152 Human Anatomy & Phys I/II with Labs
BIOL 227 Genetics

Core Curriculum Courses:

COMM 131 Fundamentals of Communication
ENGL 102 English Composition II
COMG 153 Computers – A Practical Approach
PHIL 101 Introduction to Philosophy
PHIL 165, 251
PHIL 103, 190, 297
PHIL 295 Ethics

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 Organic Chemistry II
MTH 141 Analytic Geom & Calculus I
MTH 142 Analytic Geom & Calculus II

MTH 241 Analytic Geom & Calculus

PHY 160/161 General Physics I/ Lab
PHY 162/163 General Physics II/ Lab

PHY 130/131 General Physics I/Lab
PHY 132/133 General Physics II/Lab

Choose one Social Sciences course (Obj 3)

BIO 260/261 Comp Verteb Anatomy/Lab
BIO 270 Genetics

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 Philosophy course (Obj 4)
PHL 201 Ethics (Obj 6A)

Objective 5 Courses*:

HIST 112-155, 253-299

Historical Experience courses (Obj 5A)

ENGL 220-261

Literary Experience courses (Obj 5B)

ART 110-116, 131-135, 141, 142, 214-231,
235-238, 261-274, 281; ENGL 271; FILM 181-250;
MUS 180-182, 186, 271- 273; THTR 254, 256

Aesthetic Experience courses (Obj 5C)

ANTH 200, 211; ARBC 111, 112; ART 243; CHI 111;
FILM 251; FREN 151-252; GEOG 142, 147, 243;
GERM 111-212; HREL 151; JAPA 111-212; MUS 183;
PSCN 275; RUSN 111-112; SOCY 294; SPAN 160-295

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 from objective 5D. B.A. Chemistry requires one course from each objective: 5A, 5B, 5C, 5D.

HIGHLIGHTS

- For the seventh consecutive year, University of Detroit Mercy is listed in the top tier of Midwestern Master's Universities in the 2008 edition of the *U.S. News and World Report's* "America's Best Colleges." In the magazine's "**Great Schools, Great Prices**" listing, UDM ranked **third** in 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 14 years. The Chem Club was also recognized with the 2004-05 and 2006-07 "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.