



HENRY FORD 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

HENRY FORD COMM COLLEGE COURSES

UDM EQUIVALENCIES

Major Courses:

BIO 150	Biology: Organisms, Genes, and Ecology	BIO 122/123	General Biology II/ Lab
BIO 152	Biology: Cells and Molecular Biology	BIO 120/121	General Biology I/ Lab
CHEM 141	Principles of General & Inorganic Chem I	CHM 107/110	General Chemistry I/ Lab
CHEM 142	Principles of General & Inorganic Chem II	CHM 108/112	General Chemistry II/ Lab
CHEM 241	Organic Chemistry I	CHM 227	Organic Chemistry I
CHEM 242	Organic Chemistry II	CHM 229	Organic Chemistry II
CHEM 243	Organic Chemistry Laboratory I	CHM 225	Organic Chemistry Lab I
MATH 180	Calculus I	MTH 141	Analytic Geom & Calculus I
MATH 183	Calculus II	MTH 142	Analytic Geom & Calculus II

NOTE: B.S. in Chemistry also requires:

MATH 280	Calculus III	MTH 241	Analytic Geom & Calculus III
PHYS 231	Engineering Physics or		
PHYS 241	Mechanics	PHY 160/161	General Physics I/ Lab
PHYS 232	Engineering Physics (Continued) or		
PHYS 243	Electricity and Magnetism	PHY 162/163	General Physics II/ Lab

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

PHYS 131	Liberal Arts Physics	PHY 130/131	General Physics I/ Lab
PHYS 132	Liberal Arts Physics (Continued)	PHY 132/133	General Physics II/ Lab

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

BEC 133, 151, 152; POLS 131; PSY 131; SOC 131; SSC 131	Choose one Social Science course (Obj 3)
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Core Curriculum Courses:

ENG 132	College Writing and Research	ENL 131	Academic Writing (Obj 1)
SPC 131	Fundamentals of Speaking	CST 101	Fund of Speech (Obj 1)
BCA 140	Software Applications	CIS 100	Intro to Computers (Obj 2)
PHIL 137	Topics in Philosophy	PHL 100	Intro to Philosophy (Obj 4)
WR 130-233			Choose 1 Religious Studies course (Obj 4)
PHIL 131-135; WR 130-240			Choose 1 Phil or Relig Studies course (Obj 4)
PHIL 139	Ethics	PHL 201	Ethics (Obj 6A)

Objective 5 Courses*:

HIST 111-255, 260, 262	Historical Experience courses (Obj 5A)
ENG 231-241, 245, 248	Literary Experience courses (Obj 5B)
ART 101, 102, 105, 121-130, 135, 141, 224; HUM 101; MUS 130-133, 232, 233; STH 131, 132, 238; TCM 132	Aesthetic Experience courses (Obj 5C)
ANTH 131-152; ARA 131-231; CHN 131; ENG 243; FRE 131-232; GEOG 132; GER 131-231; HIST 257; HONORS 251; ITAL 131-132; SOC 251; SPN 131-232;	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 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 eighth consecutive year, University of Detroit Mercy is listed in the **top tier of Midwestern Master's Universities** in the 2009 edition of the *U.S. News and World Report's "America's Best Colleges."* The University was ranked one of the top 25 schools in its category and the **highest-ranking school in Michigan**.
- 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.