



HENRY FORD COMMUNITY COLLEGE TRANSFER GUIDE

COLLEGE OF ENGINEERING AND SCIENCE

ENGINEERING PROGRAMS

Entrance Requirements: Minimum 2.50 GPA based on at least 24 credits. If less than 24 credits have been earned, high school transcripts are required. HFCC courses must be a 2.0 or higher in order to transfer.

The following courses will transfer into a University of Detroit Mercy Engineering program [Architectural, Civil/Environmental, Electrical/Computer, or Mechanical]. Additional courses not on this guide may also transfer.

To arrange a campus visit, contact an Admissions Counselor at 313-993-1245, 800-635-5020, or admissions@udmercy.edu. UDM website: www.udmercy.edu

HENRY FORD COMM COLLEGE COURSES UDM EQUIVALENCIES

Math, Science, Engineering Courses:

BIO 131	Introductory Biology ¹	BIO 1080	The Science of Life
CHEM 141	Princ of Gen'l & Inorganic Chem I	CHM 1070/1100	General Chemistry I/ Lab
CHEM 142	Princ of Gen'l & Inorganic Chem II ²	CHM 1080/1120	General Chemistry II/ Lab
CIS 170	"C" Programming ³	ENGR 2040	Intro to Engineering Computing
CIS 170/ CIS 230	"C" Prog and C++ Prog ³	CSSE 1710 and CSSE 1720	Intro Programming I & II
DRAF 120	Introduction to CAD and	ENGR 1050	Engr Graphic & Design and
ENGR 130	Introduction to Engineering	ENGR 1000	Ethics & Politics of Engr
DRAF 123	Intro to CATIA V5 ²	ENGR 1070	Intro to Solid Modeling
ENGR 201	Science of Materials ⁴	ENGR 3170	Science of Materials
ENGR 205	Digital Systems ⁵	ELEE 2640/2650	Digital Logic Circuits I/Lab
ENGR 232	Statics ⁴	ENGR 3120	Statics
ENGR 233	Dynamics ⁴	ENGR 3130	Dynamics
ENGR 240	Circuits	ELEE 2500/2510	Fund Electrical & Comp Engr I
MATH 180	Calculus I	MTH 1410	Analytic Geometry & Calculus I
MATH 183	Calculus II	MTH 1420	Analytic Geometry & Calculus II
MATH 280	Calculus III	MTH 2410	Analytic Geometry & Calculus III
MATH 289	Differential Equations	MTH 3720	Differential Equ w/ Linear Algebra
PHYS 241	Mechanics ⁶	PHY 1600/1610	General Physics I/ Lab
PHYS 242	Sound, Light, & Thermodyn ⁶ and	PHY 1620/1630	General Physics II/ Lab
PHYS 243	Electricity and Magnetism ⁶	PHY 1600-1630	General Physics I & II and Labs
PHYS 231 and PHYS 232	Engineering Physics ⁶		

Core Curriculum Courses:

SPC 131	Fundamentals of Speaking	CST 1010	Fundamental of Speech (OB1)
ENG 132	College Writing and Research	ENL 1310	Academic Writing (OB1)
ENG 135	Bus & Tech Writing & Research	ENL 3030	Technical Writing
PHIL 137	Topics in Philosophy	PHL 1000	Introduction to Philosophy (OB4A)
WR 130-240			Choose 1 Religious Studies class (OB4B)
PHIL 131-135, 139; WR 130-240			Choose 1 Philosophy or Religious Studies course (OB4C)

- ¹ BIO 131 (UDM's BIO 1080) is required by Architectural Engineering program; this or another approved Biology/Ecology/Geology class may be used for Civil/Environmental Engineering – consult with a UDM advisor.
- ² Required by Mechanical Engineering program only. CHEM 142 or another approved science course may fulfill the requirement- consult with a UDM advisor.
- ³ Electrical/Computer Engineering programs need *both* CIS 170 and CIS 230 to fulfill their computer requirement; Mechanical and Civil Engineering programs only need CIS 170. None of these are required by Architectural Engineering.
- ⁴ Not required by the Electrical/Computer Engineering programs.
- ⁵ Required by Electrical/Computer Engineering programs only.
- ⁶ Depending on what is offered, HFCC students may take the PHYS 241-242-243 sequence or the PHYS 231-232 sequence to transfer as UDM's PHY 1600-1630. Students who only need PHY 1600/1610 may take just PHYS 231 or 241.

