



EASTERN MICHIGAN UNIVERSITY TRANSFER GUIDE

COLLEGE OF ENGINEERING AND SCIENCE

ENGINEERING PROGRAMS – NEW CORE

This guide includes the New Core Curriculum effective Fall 2017. Transfer students starting at Detroit Mercy between Fall 2017 and Summer 2021 will have the option to select this New Core or the Old Core. See Transfer Guides indicating “OLD CORE” for prior Core requirements. Course grades must be a C or better. Additional courses not on this guide may also transfer.

The following courses will transfer into Detroit Mercy’s Engineering programs (Architectural, Civil, Electrical, Mechanical, or Robotics & Mechatronic Systems). Students may transfer a maximum of 96 credits. Detroit Mercy Admissions: admissions@udmercy.edu or 313-993-1245. Website: udmercy.edu

Eastern Michigan University Courses	Detroit Mercy Equivalencies
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Core Knowledge Area A: Communication Skills

CTAC 124 or 224	CST 1010 Fundamentals of Speech	A1
ENGL 121 Comp II: Researching the Pub Exp	ENL 1310 Academic Writing	A2

Core Knowledge Area B: Mathematics/Statistical Knowledge

Satisfied by program requirement	Quant/Symbolic Reasoning course	B1
Satisfied by program requirement	Statistical/Prob Reasoning course	B2

Core Knowledge Area C: Scientific Knowledge

Satisfied by program requirement	Physical Sciences course	C1
Satisfied by program requirement	Social Sciences course	C2

Core Knowledge Area D: Religious and Philosophical Knowledge

PHIL 100 Introduction to Philosophy	PHL 1000 Introduction to Philosophy	D1
HIST 201-204, 303, 304, 306, 307, 334; PHIL 291	Choose 1 Religious Knowledge course	D2
ANTH 338; HIST 201-204, 303, 304, 306, 307, 334; any PHIL course (min 3 credits) <u>except</u> PHIL 100 or 220	Choose 1 PHL/RELS Elective course	D3

Core Knowledge Area E: Essential Humanities

AFC 102; HIST 101, 106, 109, 110, 123, 124, 311, 315, 316, 319, 330, 341, 356, 457	Choose 1 Historical Experiences course	E1
LITR 100, 101, 102, 103, 160	Choose 1 Literary Experiences course	E2
AFC 370; ARTH 100, 151, 161, 162, 263, 264, 267, 368, 369, 467, 468, 469, 470, 471, 472, 473, 474, 476; ARTS 101; CTAR 100, 157, 158, 450, 451; MUSC 107, 108, 301W, 302L3; PHIL 310 Architectural Engineering – satisfied by program requirement	Choose 1 Aesthetic Experiences course	E3

Core Knowledge Area F: Ethics and Social Responsibility

HLAD 308; PHIL 220, 221, 223	Choose 1 Ethics course	F1
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Core Integrating Themes

Most of these may be fulfilled by program requirements or other Knowledge Area courses. See a Detroit Mercy advisor for a defined list of approved courses and more information.	Integrating Themes IT1, IT2, IT3, IT4, IT5, IT6
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These courses fulfill requirements for Detroit Mercy's Engineering Programs:

Eastern Michigan University Courses		Detroit Mercy Equivalencies	
All Engineering Disciplines			
CHEM 121/122	General Chemistry I/Lab	CHM 1070/1100	General Chemistry I/Lab
MATH 120	Calculus I	MTH 1410	Analytic Geometry & Calculus I
MATH 121	Calculus II	MTH 1420	Analytic Geometry & Calculus II
MATH 223	Multivariable Calculus	MTH 2410	Analytic Geometry & Calculus III
MATH 325	Differential Equations	MTH 3720	Differential Equations w/Linear Algebra
PHY 223	Mechanics and Sound	PHY 1600/1610	General Physics I/Lab
PHY 224	Electricity and Light	PHY 1620/1630	General Physics II/Lab
STAT 370	Probability and Statistics I	MTH 4270	Applied Probability and Statistics
Additional COSC & PHY 400-level courses may transfer as Technical Electives. Contact a Detroit Mercy advisor.			
Additional Courses for Architectural Engineering			
BIO 105, 107, 110, 120; CHEM 123; MATH 122 (or another approved science or math course)		Choose 1 approved Science or Math course	
CHEM 341	Fundamentals of Material Science	ENGR 3170	Science of Materials
PHY 229	Strength & Elasticity of Materials	ENGR 3260/3270	Mechanics of Materials/Lab
PHY 230	Engineering Dynamics	ENGR 3130	Dynamics
PHY 360	Heat and Thermodynamics	ENGR 3150	Thermodynamics I
PHY 485	Fluid Dynamics	ENGR 3140	Fluid Mechanics
Additional courses for Civil Engineering			
BIO 105, 107, 110, 120 (or another approved Bio course)		Choose 1 approved Biology Course	
CHEM 341	Fundamentals of Material Science	ENGR 3170	Science of Materials
CNST 206	Surveying	CIVE 3400/3410	Civil Engr: Surveying, CAD, GIS/Lab
PHY 229	Strength & Elasticity of Materials	ENGR 3260/3270	Mechanics of Materials/Lab
PHY 230	Engineering Dynamics	ENGR 3130	Dynamics
PHY 360	Heat and Thermodynamics	ENGR 3150	Thermodynamics I
PHY 485	Fluid Dynamics	ENGR 3140	Fluid Mechanics
Additional courses for Electrical Engineering			
COSC 246	Programming in C++	CSSE 1712	Intro to Programming I
COSC 405	Switching Theory	ELEE 2640	Digital Logic
COSC 422	Intro to Microprocessors	ELEE 3860	Intro to Microcontrollers
COSC 439	Computing Network Principles	ELEE 4680	Computer Networking (Tech Elective or Required for Comp Engr Concentration)
PHY 450	Electricity and Magnetism II	ELEE 3660	Electromagnetics I
Additional courses for Mechanical Engineering			
CHEM 341	Fundamentals of Material Science	ENGR 3170	Science of Materials
PHY 229	Strength & Elasticity of Materials	ENGR 3260/3270	Mechanics of Materials/Lab
PHY 230	Engineering Dynamics	ENGR 3130	Dynamics
PHY 360	Heat and Thermodynamics	ENGR 3150	Thermodynamics I
PHY 485	Fluid Dynamics	ENGR 3140	Fluid Mechanics
Additional courses for Robotics & Mechatronic Systems Engineering			
COSC 246	Programming in C++	CSSE 1712	Intro to Programming I
COSC 405	Switching Theory	ELEE 2640	Digital Logic
COSC 422	Intro to Microprocessors	ELEE 3860	Intro to Microcontrollers
PHY 229	Strength & Elasticity of Materials	ENGR 3260/3270	Mechanics of Materials/Lab
PHY 230	Engineering Dynamics	ENGR 3130	Dynamics

If EMU's PHY 223, 229, and 230 courses are all taken, Detroit Mercy's ENGR 3120 Statics will also transfer.