



# MOTT COMMUNITY COLLEGE 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.

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 63 credits toward a degree; course grades must be C or better. Additional courses not on this guide may also transfer. Detroit Mercy Admissions: admissions@udmercy.edu or 313-993-1245. Website: udmercy.edu

Mott Community College Courses	Detroit Mercy Equivalencies
--------------------------------	-----------------------------

#### Core Knowledge Area A: Communication Skills

<b>COMM</b> 131 Fundamentals of Public Speaking	CST 1010 Fundamentals of Speech	A1
<b>ENGL</b> 102 English Composition II	ENL 1310 Academic Writing	A2

#### Core Knowledge Area B: Mathematics/Statistical Knowledge

Satisfied by program requirement	Quantitative and Symbolic Reasoning course	B1
Satisfied by program requirement	Statistical and Probabilistic 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

<b>PHIL</b> 101 Introduction to Philosophy	PHL 1000 Introduction to Philosophy	D1
<b>ENGL</b> 253; <b>PHIL</b> 165, 251	Choose 1 Religious Knowledge course	D2
<b>ENGL</b> 253; <b>PHIL</b> 103, 165, 190, 251, 295, 297	Choose 1 PHL/RELS Elective course	D3

#### Core Knowledge Area E: Essential Humanities

<b>HIST</b> 151, 152, 154, 155, 212, 213, 254, 255, 257, 259, 261-266	Choose 1 Historical Experiences course	E1
<b>ENGL</b> 220, 221, 223, 225, 227, 231, 240	Choose 1 Literary Experiences course	E2
<b>ART</b> 110, 111, 112, 116, 214, 215; <b>ENGL</b> 271; <b>FILM</b> 181; <b>MUS</b> 180, 182, 186, 187, 271, 272; <b>PHOT</b> 188; <b>THTR</b> 110, 120 Architectural Engineering: satisfied by program requirement	Choose 1 Aesthetic Experiences course	E3

#### Core Knowledge Area F: Ethics and Social Responsibility

Satisfied by program requirement	Ethics course	F1
----------------------------------	---------------	----

#### 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
--	--

**MTA Students only:** Transfer students who satisfy the **Michigan Transfer Agreement** (MTA) will have the Core Curriculum Knowledge Area requirements met (listed above). Fulfilling the Core Integrating Themes is still necessary. Students should select courses that meet both the MTA and program specific requirements.

These courses fulfill requirements for Detroit Mercy's Engineering Programs:

Mott Community College Courses		Detroit Mercy Equivalencies	
<b>All Engineering Disciplines</b>			
CHEM 131/131L	General Chemistry I and Lab	CHM 1070/1100	General Chemistry I/Lab
MATH 170	Analytic Geometry & Calculus I	MTH 1410	Analytic Geometry & Calculus I
MATH 180	Analytic Geometry & Calculus II	MTH 1420	Analytic Geometry & Calculus II
MATH 250	Multivariable Calculus	MTH 2410	Analytic Geometry & Calculus III
MATH 280	Differential Equations	MTH 3720	Differential Equations w/Linear Algebra
PHYS 287/287L	General Physics I and Lab	PHY 1600/1610	General Physics I/Lab
PHYS 288/288L	General Physics II and Lab	PHY 1620/1630	General Physics II/Lab
<b>Additional Courses for Architectural Engineering</b>			
ART 111 <b>AND</b> ART 112	Art History Survey	ARCH 2120 <b>AND</b> ARCH 2220	Arch Hist/Thry I & II
*ART 131	Drawing	ARCH 1110	Visual Communication I
*ART 141 <b>AND</b> *ART 142 <b>AND</b> *ART 145		ARCH 1100 <b>AND</b> ARCH 1200	Arch Design I & II
ENGR 242	Principles of Engineering Materials	ENGR 3170	Science of Materials
ENGR 247	Vector Mechanics I	ENGR 3120	Statics
ENGR 248	Mechanics of Deformable Solids	ENGR 3260	Mechanics of Materials
ENGR 249	Vector Mechanics II	ENGR 3130	Dynamics
* Only transferable for Detroit Mercy course listed if approved with portfolio review.			
<b>Additional courses for Civil Engineering</b>			
BIOL 107, 111, 120, 125 (or another approved Biology course)		Choose 1 approved Biology Course	
ENGR 242	Principles of Engineering Materials	ENGR 3170	Science of Materials
ENGR 247	Vector Mechanics I	ENGR 3120	Statics
ENGR 248	Mechanics of Deformable Solids	ENGR 3260	Mechanics of Materials
ENGR 249	Vector Mechanics II	ENGR 3130	Dynamics
<b>Additional courses for Electrical Engineering</b>			
COMS 171	Introduction to C++	CSSE 1712	Intro to Programming I
COMS 280	Advanced Programming in C++	CSSE 1722	Intro to Programming II
<b>Additional courses for Mechanical Engineering</b>			
COMS 171	Introduction to C++	CSSE 1712	Intro to Programming I
ENGR 242	Principles of Engineering Materials	ENGR 3170	Science of Materials
ENGR 247	Vector Mechanics I	ENGR 3120	Statics
ENGR 248	Mechanics of Deformable Solids	ENGR 3260	Mechanics of Materials
ENGR 249	Vector Mechanics II	ENGR 3130	Dynamics
<b>Additional courses for Robotics &amp; Mechatronic Systems Engineering</b>			
COMS 171	Introduction to C++	CSSE 1712	Intro to Programming I
COMS 280	Advanced Programming in C++	CSSE 1722	Intro to Programming II
ENGR 247	Vector Mechanics I	ENGR 3120	Statics
ENGR 248	Mechanics of Deformable Solids	ENGR 3260	Mechanics of Materials
ENGR 249	Vector Mechanics II	ENGR 3130	Dynamics

**Entrance Requirements:**

- Minimum 2.5 GPA based on 24 or more credits earned at Mott CC (and/or other accredited institutions).
- If less than 24 credits have been earned, a student's high school transcript is required.
- Apply for admission to Detroit Mercy at [www.udmercy.edu/admission/apply](http://www.udmercy.edu/admission/apply); the application is free.

Contact the Transfer Team if you have any questions: [transferteam@udmercy.edu](mailto:transferteam@udmercy.edu) or 313-993-1940.