



# MACOMB 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. Course grades must be a C or better. Additional courses not on this guide may also transfer.

The following courses will transfer to Detroit Mercy’s Engineering programs (Architectural, Civil, Electrical, Mechanical, or Robotics & Mechatronic Systems). Normally, students may transfer up to 63 credits. However, due to an Articulation Agreement, students may transfer additional MCC courses that apply toward a Detroit Mercy engineering degree (currently up to 75 Detroit Mercy credits-varies by program).

Detroit Mercy Admissions: admissions@udmercy.edu or 313-993-1245. Website: udmercy.edu

Macomb Community College Courses	Detroit Mercy Equivalencies	
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#### Core Knowledge Area A: Communication Skills

SPCH 1060 Speech Communication	CST 1010 Fundamentals of Speech	A1
ENGL 1190 or ENGL 1220	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

PHIL 2010 Introduction to Philosophy	PHL 1000 Introduction to Philosophy	D1
HUMN 1700, 2000, 2100	Choose 1 Religious Knowledge course	D2
HUMN 1700, 2000, 2100; PHIL 2120, 2200, 2400	Choose 1 PHL/RELS Elective course	D3

#### Core Knowledge Area E: Essential Humanities

HIST 1500, 1600, 1700, 2100, 2200, 2520; INTL 2000	Choose 1 Historical Experiences course	E1
ENGL 1730, 2510, 2520, 2600, 2610, 2710-2740, 2800, 2810, 2850, 2855	Choose 1 Literary Experiences course	E2
ARTT 1620, 1625, 2650, 2660; DRAD 1025; ENG 2410; HUMN 1210, 1250, 1270, 1300, 1460, 1473, 1476; MACA 1025; MUSC 1030, 1040, 2710, 2720 Architectural Engineering: satisfied by program requirement	Choose 1 Aesthetic Experiences course	E3
ECON 1160 – due to an Articulation Agreement, ECON 1160 may be used as Core E1, E2 <i>or</i> E3 only by students who have completed an Associate degree or Certificate in Pre-Engineering at MCC.		

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

Satisfied by program requirement	Ethics course	F1
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**MTA Students only:** Transfer students who satisfy the **Michigan Transfer Agreement (MTA)** will have the Core Curriculum Knowledge Area requirements met. 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:**

Macomb Community College Courses			Detroit Mercy Equivalencies		
<b>All Engineering Disciplines</b>					
CHEM	1170	General Chemistry I	CHM	1070/1100	General Chemistry I/Lab
MATH	1760	Analytic Geometry & Calculus I	MTH	1410	Analytic Geometry & Calculus I
MATH	1770	Analytic Geometry & Calculus 2	MTH	1420	Analytic Geometry & Calculus II
MATH	2760	Analytic Geometry & Calculus 3	MTH	2410	Analytic Geometry & Calculus III
MATH	2770	Differential Equations	MTH	3720	Differential Equations w/Linear Algebra
PHYS	2220	Analytical Physics 1	PHY	1600/1610	General Physics I/Lab
PHYS	2230	Analytical Physics 2	PHY	1620/1630	General Physics II/Lab
<b>Additional Courses for Architectural Engineering</b>					
*ARTT	1060	Basic Drawing 1	ARCH	1110	Visual Communication I
CIVL	1000	Materials	ARCH	2150	Construction I
DRAD	1025	History of Architecture	ARCH	2120	Architectural History & Theory I
DRAD	2110	Applied Building Construction	ARCH	2250	Construction II
DRAD	2200	Mechanical & Electrical Systems for Bldgs	ARCH	2340	Environmental Technology I
DRCG	1140	Comp Graphics <b>AND</b> ENGR 1000 Intro to Engr	ARCH	2110 <b>AND</b> ENGR 1050	
* Only transferable for Detroit Mercy course listed if approved with portfolio review.					
<b>Additional courses for Civil Engineering</b>					
BIOL 1000, 1010, 1310 (or another approved biology course)			Choose 1 approved Biology course		
DRCG 1140 Comp Graphics <b>AND</b> ENGR 1000 Intro Engr			ENGR 1050 Engineering Graphics & Design		
SURV 2220 Civil and Survey Drafting			CIVE 3400/3410 Civil Engr Tchnq:Surv CAD/Lab		
<b>Additional courses for Electrical Engineering</b>					
ENGR 1000 Introduction to Engineering			ENGR 1080 Fundamentals of Engineering Design		
ITCS 2530 C++ Programming 1			CSSE 1712 Intro to Programming I		
ITCS 2550 C++ Programming 2			CSSE 1722 Intro to Programming II		
<b>Additional courses for Mechanical Engineering</b>					
ENGR 1000 Introduction to Engineering			ENGR 1080 Fundamentals of Engineering Design		
ITCS 2530 C++ Programming 1			CSSE 1712 Intro to Programming I		
<b>Additional courses for Robotics &amp; Mechatronic Systems Engineering</b>					
ENGR 1000 Introduction to Engineering			ENGR 1080 Fundamentals of Engineering Design		
ITCS 2530 C++ Programming 1			CSSE 1712 Intro to Programming I		
ITCS 2550 C++ Programming 2			CSSE 1722 Intro to Programming II		

**Entrance Requirements:**

- Minimum 2.5 GPA based on 24 or more credits earned at MCC (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 [udmercy.edu/admission/apply](http://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.