

# OAKLAND COMMUNITY COLLEGE TRANSFER GUIDE

## COLLEGE OF ENGINEERING AND SCIENCE

### ENGINEERING PROGRAMS – NEW CORE

This guide reflects 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. If admitted under the Articulation Agreement, students may transfer additional OCC courses that apply toward a Detroit Mercy engineering degree (currently up to 86 Detroit Mercy credits-varies by program).

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

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

<b>COM</b> 1600 Fundamentals of Speech	CST 1010 Fundamentals of Speech	A1
<b>ENG</b> 1520 Composition II	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

<b>PHI</b> 1510 Introduction to Philosophy	PHL 1000 Introduction to Philosophy	D1
<b>HUM</b> 1710, 2720	Choose 1 Religious Knowledge course	D2
<b>HUM</b> 1710, 2720; <b>PHI</b> 1520, 1710, 2710	Choose 1 PHL/RELS Elective course	D3

#### Core Knowledge Area E: Essential Humanities

<b>HIS</b> 1510, 1520, 1550, 2510, 2520, 2610, 2620	Choose 1 Historical Experiences course	E1
<b>ENG</b> 1610, 1710, 1720, 2510-2570, 2750-2770	Choose 1 Literary Experiences course	E2
<b>ART</b> 1540, 1560, 2240, 2250, 2600; <b>FSH</b> 1500; <b>HUM</b> 1510, 1520, 1900, 2100-2109, 2900; <b>MUS</b> 1560, 1585, 1590; <b>PHO</b> 1550; <b>THE</b> 1561, 1571 <b>Architectural Engineering</b> : 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
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**Highlighted courses within the Knowledge Areas also fulfill an Integrating Theme (IT) requirement; see IT options**

**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.

#### Entrance Requirements:

- Minimum 2.5 GPA based on 24 or more credits earned at OCC (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.

Oakland Community College Courses			Detroit Mercy Equivalencies			
<b>Architectural Engineering</b>						
<b>Choose 1 Core Integrating Theme 1: Reading, Writing and Research Across the Curriculum</b>						
Must be taken at Detroit Mercy			ARCH	2200	Architectural History and Theory III	IT1
<b>Choose 1 Core Integrating Theme 2: Critical Thinking</b>						
PHY	2400	Engineering Physics I	PHY	1600	General Physics I <b>and</b>	IT2
			PHY	1610	General Physics Lab I	
<b>Choose 1 Core Integrating Theme 3: Cultural Diversity</b>						
Must be taken at Detroit Mercy			ENGR	3110	Prof. Practice of Engineering	IT3
<b>Choose 1 Core Integrating Theme 4: Human Difference</b>						
ENG	2570	Survey African American Literature	ENL	2850	African American Literature	IT4
GEO	1520	World Geography	GEO	2110	World Regional Geography	IT4
HIS	2610	African American History to 1877	HIS	3480	African American History	IT4
HIS	2620	African American History to Present	HIS	3480	African American History	IT4
PSY	2740	Human Dev Across the Lifespan	PYC	2500	Developmental Psychology	IT4
<b>Core Integrating Themes 5: Personal Spiritual Development</b>						
Must be taken at Detroit Mercy			ENGR	3000	Co-Op - Engineering & Science &	IT5
			CTA	3010/ 3020	Engineering Co-Op I Engineering Co-Op II	
<b>Choose 1 Core Integrating Theme 6: Spirituality and Social Justice</b>						
Must be taken at Detroit Mercy			ENGR	1000	Engineering Ethics	IT6
<b>Civil Engineering</b>						
<b>Choose 1 Core Integrating Theme 1: Reading, Writing and Research Across the Curriculum</b>						
Must be taken at Detroit Mercy			CIVE	3450	Construction Materials	IT1
<b>Choose 1 Core Integrating Theme 2: Critical Thinking</b>						
PHY	2400	Engineering Physics I	PHY	1600	General Physics I <b>and</b>	IT2
			PHY	1610	General Physics Lab I	
<b>Choose 1 Core Integrating Theme 3: Cultural Diversity</b>						
Must be taken at Detroit Mercy			ENGR	3110	Prof. Practice of Engineering	IT3
<b>Choose 1 Core Integrating Theme 4: Human Difference</b>						
ENG	2570	Survey African American Literature	ENL	2850	African American Literature	IT4
GEO	1520	World Geography	GEO	2110	World Regional Geography	IT4
HIS	2610	African American History to 1877	HIS	3480	African American History	IT4
HIS	2620	African American History to Present	HIS	3480	African American History	IT4
PSY	2740	Human Dev Across the Lifespan	PYC	2500	Developmental Psychology	IT4
<b>Core Integrating Themes 5: Personal Spiritual Development</b>						
Must be taken at Detroit Mercy			ENGR	3000	Co-Op - Engineering & Science &	IT5
			CTA	3010/ 3020	Engineering Co-Op I Engineering Co-Op II	
<b>Choose 1 Core Integrating Theme 6: Spirituality and Social Justice</b>						
Must be taken at Detroit Mercy			ENGR	1000	Engineering Ethics	IT6
<b>Electrical Engineering</b>						
<b>Choose 1 Core Integrating Theme 1: Reading, Writing and Research Across the Curriculum</b>						
ENG	2200	Professional Communication	ENL	3030	Technical Writing	IT1
<b>Choose 1 Core Integrating Theme 2: Critical Thinking</b>						
PHY	2400	Engineering Physics I	PHY	1600	General Physics I <b>and</b>	IT2
			PHY	1610	General Physics Lab I	
<b>Choose 1 Core Integrating Theme 3: Cultural Diversity</b>						
Must be taken at Detroit Mercy			ENGR	3110	Prof. Practice of Engineering	IT3
<b>Choose 1 Core Integrating Theme 4: Human Difference</b>						
ENG	2570	Survey African American Literature	ENL	2850	African American Literature	IT4
GEO	1520	World Geography	GEO	2110	World Regional Geography	IT4
HIS	2610	African American History to 1877	HIS	3480	African American History	IT4
HIS	2620	African American History to Present	HIS	3480	African American History	IT4
PSY	2740	Human Dev Across the Lifespan	PYC	2500	Developmental Psychology	IT4
<b>Core Integrating Themes 5: Personal Spiritual Development</b>						
Must be taken at Detroit Mercy			ENGR	3000	Co-Op - Engineering & Science &	IT5
			CTA	3010/ 3020	Engineering Co-Op I Engineering Co-Op II	
<b>Choose 1 Core Integrating Theme 6: Spirituality and Social Justice</b>						
Must be taken at Detroit Mercy			ENGR	1000	Engineering Ethics	IT6

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

Oakland Community College Courses			Detroit Mercy Equivalencies		
<b>All Engineering Disciplines</b>					
CHE	1510	General Chemistry I	CHM	1070/1100	General Chemistry I/Lab
MAT	1730	Calculus I	MTH	1410	Analytic Geometry & Calculus I
MAT	1740	Calculus II	MTH	1420	Analytic Geometry & Calculus II
MAT	2740	Calculus III	MTH	2410	Analytic Geometry & Calculus III
MAT	2810	Differential Equations	MTH	3720	Differential Equations w/Linear Algebra
PHY	2400	Engineering Physics I	PHY	1600/1610	General Physics I/Lab
PHY	2500	Engineering Physics II	PHY	1620/1630	General Physics II/Lab
<b>Additional Courses for Architectural Engineering</b>					
*ARC	1000	Bsc Arc Draw/Drft <b>OR</b> *ART 1510 Bsc Draw	ARCH	1110	Visual Communication I
ARC	1040	Introduction to Architecture	ARCH	1190	Int Arch I (and ARCH 1290 Int Arch II)
*ARC	1130	Arch Dsgn I <b>AND</b> *ARC 2110 Arch Site Dev	ARCH	1100	Arch Design I (and ARCH 2190 Int Arch III)
*ARC	1140	Arch Dsgn II <b>AND</b> *ARC 2165 Design/Color	ARCH	1200	Architectural Design II
CAD	1151	CAD Architecture/Civil Engineering	ARCH	2110	Visual Communication III
EGR	1100	Intro Engr <b>AND</b> CAD 1101/other apprvd CAD	ENGR	1050	Engineering Graphics & Design
MAT	1580	Statistics	STA	2250	Statistics
* Only transferable for Detroit Mercy course listed if approved with portfolio review.					
<b>Additional courses for Civil Engineering</b>					
BIO	1500, 1511, 1530, 1560 (or another approved biology course)		Choose 1 approved Biology course		
CMN	1300	Construction Surveying	CIVE	3400/3410	Civil Engr: Survey, CAD, GIS/Lab
EGR	1100	Intro Engr <b>AND</b> CAD 1101 Intro CAD	ENGR	1050	Engineering Graphics & Design
MAT	1580	Statistics	STA	2250	Statistics
<b>Additional courses for Electrical Engineering</b>					
CAD	1201	Intro to Engineering Graphics	ENGR	1020	Basic Engr Grph/CAD (and ENGR 1021)
CIS	2252	Object-Oriented Prog (C++)	CSSE	1712	Introduction to Programming I
EGR	1100	Introduction to Engineering	ENGR	1080	Fund of Engineering Design
ENG	2200	Professional Communication	ENL	3030	Technical Writing
<b>Additional courses for Mechanical Engineering</b>					
CAD	1201	Intro to Engineering Graphics	ENGR	1020	Basic Engr Graphics/CAD and ENGR 1021 Intermed Engr Graphics/CAD
CIS	2252	Object-Oriented Prog (C++)	CSSE	1712	Introduction to Programming I
EGR	1100	Introduction to Engineering	ENGR	1080	Fund of Engineering Design
<b>Additional courses for Robotics &amp; Mechatronic Systems Engineering</b>					
CAD	1201	Intro to Engineering Graphics	ENGR	1020	Basic Engr Grph/CAD (and ENGR 1021)
CIS	2252	Object-Oriented Prog (C++)	CSSE	1712	Introduction to Programming I
EGR	1100	Introduction to Engineering	ENGR	1080	Fund of Engineering Design
ENG	2200	Professional Communication	ENL	3030	Technical Writing