



EASTERN MICHIGAN UNIVERSITY TRANSFER GUIDE

COLLEGE OF ENGINEERING AND SCIENCE

ENGINEERING PROGRAMS – OLD CORE

The following courses will transfer into the University of Detroit Mercy Engineering programs [Architectural, Civil, Electrical/Computer, Mechanical, and Robotics & Mechatronic Systems]. Students may transfer a maximum of 96 credits. Course grades must be C or better. Additional courses not on this guide may also transfer.

This guide reflects the Old Core Curriculum effective prior to Fall 2017. Transfer students starting between Fall 2017 and Summer 2021 will have the option to select this Old Core or the New Core. See Transfer Guides indicating “NEW CORE” for the new requirements.

To arrange a campus visit, contact an Admissions Counselor at 313-993-1245 or admissions@udmercy.edu. Website: udmercy.edu

EASTERN MICHIGAN UNIVERSITY COURSES

Required Objective 1 courses:

ENGL 121 Comp II: Researching the Pub Exp
CTAC 124 or CTAC 224

Required Objective 2 and 3 courses:

Satisfied by program requirements

Required Objective 4 courses:

PHIL 100 Introduction to Philosophy
HIST 100, 201-204, 303, 304, 306, 307, 334; PHIL 291

HIST 100, 201-204, 303, 304, 306, 307, 334;
any PHIL course (min 3 credits)

Required Objective 5 courses:

All engineering disciplines select one OB5D course. Civil, Electrical/Computer, Mechanical, and Robotics & Mechatronic Systems Engineering students also select any two courses total from OB5A, OB5B and/or OB5C.

AFC 102; HIST 101, 106, 109, 123, 124, 315, 319,
330, 341, 356, 457

LITR 100, 101, 102, 103, 160

AFC 370; ARTH 100, 161, 162, 263, 264; ARTS 101;
CTAR 150L, 158; MUSC 107, 108; PHIL 310

ANTH 135; CTAC 274; ECON 370; FRNH 111, 121,
122, 221, 222; GEOG 110; GERN 111, 121, 122,
221, 222; GREK 101, 102, 201, 202; HIST 110, 115, 335;
JPNE 121, 122, 211, 212; LATN 101, 102, 201, 202;
PLSC 120, 211; SPNH 111, 121, 122, 233, 234

Required Objective 6 course:

PHIL 220, 221 (*if not used for OB4C*)

Math, Science, and Engineering Courses

All Engineering disciplines:

CHEM 121 General Chemistry I
CHEM 122 General Chemistry I Laboratory
MATH 120 Calculus I
MATH 121 Calculus II
MATH 223 Multivariable Calculus
MATH 325 Differential Equations
MATH 370 Probability and Statistics I
PHY 223 Mechanics and Sound
PHY 224 Electricity and Light

Additional COSC & PHY 400-level courses may transfer as Technical Electives. Contact a Detroit Mercy advisor.

DETROIT MERCY EQUIVALENCIES

Communication Skills:

ENL 1310 Academic Writing OB1
CST 1010 Fundamentals of Speech OB1

Math & Computer Skills/Scientific Literacy

Meaning & Value:

PHL 1000 Introduction to Philosophy OB4A
Choose 1 Religious Studies Course OB4B

Choose 1 add'l Philosophy or Religious Studies OB4C

Diverse Human Experience:

Historical Experience courses OB5A

Literary Experience courses OB5B

Aesthetic Experience courses OB5C

Choose 1 Comparative Experience course OB5D

Social Responsibility:

Choose 1 Ethics course OB6A
(*ENGR 1000 at UDM is recommended*)

CHM 1070 General Chemistry I
CHM 1100 Chemistry Laboratory I
MTH 1410 Analytic Geometry & Calculus I
MTH 1420 Analytic Geometry & Calculus II
MTH 2410 Analytic Geometry & Calculus III
MTH 3720 Differential Equ w/Linear Algebra
MTH 4270 Applied Probability and Statistics
PHY 1600/1610 General Physics I/Lab
PHY 1620/1630 General Physics II/Lab

Additional courses for Architectural Engineering:

BIO 105, 107, 110, 120; CHEM 123; MATH 122

(or another approved science or math course)

CHEM 341 Fundamentals of Material Science
PHY 229 Strength & Elasticity of Materials
PHY 230 Engineering Dynamics
PHY 360 Heat and Thermodynamics
PHY 485 Fluid Dynamics

Choose 1 approved Science or Math course

ENGR 3170 Science of Materials
ENGR 3260/3270 Mechanics of Materials/Lab
ENGR 3130 Dynamics
ENGR 3150 Thermodynamics I
ENGR 3140 Fluid Mechanics

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

Additional courses for Civil Engineering:

BIO 105, 107, 110, 120 *(or another approved Biology course)*

CHEM 341 Fundamentals of Material Science
CNST 206 Surveying
COSC 246 Programming in C++
PHY 229 Strength & Elasticity of Materials
PHY 230 Engineering Dynamics
PHY 360 Heat and Thermodynamics
PHY 485 Fluid Dynamics

Choose 1 approved Biology Course

ENGR 3170 Science of Materials
CIVE 3400/3410 Civil Engr: Surveying, CAD, GIS/Lab
CSSE 1712 Intro to Programming I
ENGR 3260/3270 Mechanics of Materials/Lab
ENGR 3130 Dynamics
ENGR 3150 Thermodynamics I
ENGR 3140 Fluid Mechanics

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

Additional courses for Electrical/Computer Engineering:

COSC 246 Programming in C++
COSC 405 Switching Theory
COSC 422 Intro to Microprocessors
COSC 439 Computing Network Principles

PHY 450 Electricity and Magnetism II

CSSE 1712 Intro to Programming I
ELEE 2640 Digital Logic
ELEE 3860 Intro to Microcontrollers
ELEE 4680 Computer Networking
(Tech Elective or Required for Comp Engr Concentration)
ELEE 3660 Electromagnetics I

Additional courses for Mechanical Engineering:

CHEM 341 Fundamentals of Material Science
COSC 246 Programming in C++
PHY 229 Strength & Elasticity of Materials
PHY 230 Engineering Dynamics
PHY 360 Heat and Thermodynamics
PHY 485 Fluid Dynamics

ENGR 3170 Science of Materials
CSSE 1712 Intro to Programming I
ENGR 3260/3270 Mechanics of Materials/Lab
ENGR 3130 Dynamics
ENGR 3150 Thermodynamics I
ENGR 3140 Fluid Mechanics

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

Additional courses for Robotics and Mechatronics Systems Engineering:

COSC 246 Programming in C++
COSC 405 Switching Theory
COSC 422 Intro to Microprocessors
PHY 229 Strength & Elasticity of Materials
PHY 230 Engineering Dynamics

CSSE 1712 Intro to Programming I
ELEE 2640 Digital Logic
ELEE 3860 Intro to Microcontrollers
ENGR 3260/3270 Mechanics of Materials/Lab
ENGR 3130 Dynamics

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

Entrance Requirements

- Minimum 2.5 GPA based on 24 or more credits earned at EMU (and/or other accredited institutions).
- If less than 24 credits have been earned, a student's high school transcript is required.
- Apply to UDM at udmercy.edu/apply; the application is free.

If you have any questions regarding EMU courses and how they transfer to Detroit Mercy, contact the Transfer Credit Team at 313-993-1940 or registrar@udmercy.edu.

Contact Detroit Mercy to learn more about scholarships, award-winning faculty, and co-op. For over 100 years, Detroit Mercy has been preparing talented engineers through an excellent academic curriculum and the required co-op program. Students obtain one year of experience and earn an average of over \$25,000 during their three co-op assignments.