



**WAYNE STATE UNIVERSITY
COLLEGE OF ENGINEERING**

Course Equivalencies for Macomb Community College

engineering.wayne.edu (313) 577-3040

Bachelors of Science degree requirements for the following Majors:

- Chemical Engineering (CHE)
- Civil Engineering (CE)
- Electrical and Computer Engineering (ECE)
- Industrial and Manufacturing Engineering (IE)
- Mechanical Engineering (ME)

Wayne State University			Macomb		Degree Requirements				
Title	WSU Course	Cr.	Course	Cr.	CHE	CE	ECE	IE	ME
Calculus I (MC)	MAT 2010	4	MATH 1760	4	X	X	X	X	X
Calculus II	MAT 2020	4	MATH 1770	4	X	X	X	X	X
Calculus III	MAT 2030	4	MATH 2760	4	X	X	X	X	X
Linear Algebra and Differential Equations	MAT 2150 (or 2250+2350)	4 (6)	MATH 2000+2770	7	X	X	X	X	X
General Physics I (PS)	PHY 2175	4	PHYS 2220	5	X	X		X	X
General Physics II	PHY 2185	4	PHYS 2230	5	X	X	X	X	X
General Physics I + Lab (PS)	PHYS 2175/2171	5	PHYS 2220	5			X		
Intro Computer Aided Drafting	ME 2050	2	DRCG 1140 or PRDE 1400						X
Principles of Chemistry I (PS)	CHM 1225/1230	4	CHEM 1170	4	X	X	X	X	X
Principles of Chemistry II	CHM 2280	3	CHEM 1180	4	X				
Organic Chemistry I	CHM 1240/1250	5	CHEM 2260+2270	6	X				
Organic Chemistry II	CHM 2225	3	CHEM 2280	4	X				
Basic Biology I (LS)	BIO 1510	3	BIOL 1000	4	X	X	X	X	X
Basic Engineering I	BE 1200	3	ENGR 1000 or PRDE 2000	3	X	X	X	X	X
C++ Programming	CSC 2000	3	ITCS 2550	3			X		
Microeconomics (SS) or Macroeconomics (SS)	ECO 2010 or ECO 2020	3	ECON 1170 or ECON 1160	3	X	X	X	X*	X
Intro. College Writing (BC)	ENG 1020	3	ENGL 1180 or ENGL 1220	3	X	X	X	X	X
Professional Ethics (PL)	PHI 1120	3	PHIL 2120	3	X	X	X	X	X

Applicants to the College of Engineering who have completed college-level studies at a community college or 4-year university are evaluated based on G.P.A. and the level of curriculum completion at the previous institution(s). Students may be admitted to the Professional Engineering program, the Pre-professional Program, or the Engineering Bridge program, depending on their educational background and placement examination results.

**The Social Science requirement for Industrial Engineering can be fulfilled by any course*

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General Education Requirements

Unless otherwise indicated with a plus (“+”) sign, please select one course from those listed to fulfill each Wayne State University General Education Requirement. Please be advised that no more than 64 credits from a two-year degree-granting institution will apply toward the completing of Wayne State University degree requirements, though all credits that transfer will be listed on the Wayne State University student record.

Wayne State University Requirement	MCC Courses
AI - American Society and Institutions*	HIST 2360(3) POLS 1000(4)
BC - Basic Composition	Fulfilled by degree requirements in previous table
CT - Critical Thinking*	SPCH 2500(3) PHIL 2200(3) or WSU competency exam
FC - Foreign Culture*	FREN 2360(4) GRMN 2360(4) INTL 2000(4), 2010(4), 2300(4), 2500(4), 2700(4) ITAL 2360(4) SPAN 2360(4)
HS - Historical Studies*	ANTH 2220(4) HIST 1500(4), 1600(4), 1700(3), 2000(3), 2650 (3)
IC - Intermediate Composition	ENG 3050 at WSU required
LS - Life Science	Fulfilled by degree requirements in previous table
MC - Mathematics Competency	Effective Fall 2016, the Math Competency Requirement has been temporarily suspended for all undergraduate students.
OC - Oral Competency	ENG 3060 at WSU required
PL - Philosophy and Letters	Fulfilled by degree requirements in previous table
PS - Physical Science	Fulfilled by degree requirements in previous table
SS - Social Science	Fulfilled by degree requirements in previous table
VP - Visual and Performing Arts*	ARTT 1610(3), 2610(3), 2620(3) HIST 2330(3) HUMN 1210(3), 1300(3), 1460(3), 1472(3), 1473(3), 1474(3), 1476(3), 1479(3) MUSC 1030 (3)
WI - Writing Intensive	Must be fulfilled at WSU

Note: Students are strongly advised to take one mathematics course each semester until the entire required math sequence is complete.

***Waived for students with MACRAO stamped transcript or endorsed as “MTA satisfied.” To read more about the MACRAO General Education Transfer Agreement or the MTA, please visit the links below or speak with a community college counselor.**

[MACRAO General Education Transfer Agreement](#)
[Michigan Transfer Agreement \(MTA\)](#)