



# Transfer Guide

## Wayne County Community College Bachelor of Science—Mechanical Engineering

This Transfer Guide is designed to provide a seamless transition between **the Pre-Engineering Associate of Science** degree at Wayne County Community College District (WCCCD) and **the Bachelor of Science in Mechanical Engineering** degree at Baker College.

For additional information about Baker College's transfer process and available scholarships, please visit our [Transfer Students](#) page.

### PROGRAM REQUIREMENTS

#### TRANSFER CREDITS FROM WAYNE COUNTY COMMUNITY COLLEGE—PRE-ENGINEERING ASSOCIATE IN SCIENCE

Course	Number	Course Title	Credit Hours
ENG	119	ENGLISH I	03
ENG	120	ENGLISH II	03
PS	101	AMERICAN GOVERNMENT HUMANITIES	03 06
		SOCIAL SCIENCE	06
SPH	101	FUNDAMENTALS OF SPEECH	03
CIS	209	C PROGRAMMING LANGUAGE	04
MAT	171	ANALYTIC GEO. & CALCULUS I	04
MAT	172	ANALYTIC GEO. & CALCULUS II	04
MAT	271	ANALYTIC GEO. & CALCULUS III	04
MAT	272	LINEAR ALGEBRA	04
MAT	273	DIFFERENTIAL EQUATIONS	04
CHM	136	GENERAL CHEMISTRY I	04
PHY	265	PHYSICS FOR SCI. & ENG. I	04
PHY	275	PHYSICS FOR SCI. & ENG. II	04
CAD	101	FUNDAMENTALS OF CAD	04

**TOTAL CREDITS FROM WAYNE COUNTY  
COMMUNITY COLLEGE** **64**

#### CREDITS TRANSFERRED TO BAKER COLLEGE

Course	Number	Course Title	Credit Hours
ENG	1010	COMPOSITION I	03
ENG	1020	COMPOSITION II	03
ECN	2010/ 2110	PRINCIPLES OF MACROECON/ PRINCIPLES OF MICROECON	03
SOC	3210	CULTURAL DIVERSITY	03
HUM	4010	PHILOSOPHY OF ETHICS	03
SPK	2010	ORAL COMMUNICATIONS	03
EGR	1010	ENGINEERING GRAPHICS	02
SCI	2460	GENERAL CHEMISTRY	04
SCI	2510	GENERAL PHYSICS I	04
SCI	2520	GENERAL PHYSICS II	04
MTH	1510	CALCULUS I	04
MTH	2510	CALCULUS II	04
MTH	3510	MULTIVARIABLE CALCULUS	04
MTH	3550	DIFF. EQ. & LINEAR ALGEBRA	04
ME	XXXX	MECHANICAL ENGINEERING TECHNICAL ELECTIVE I	03

**TOTAL CREDITS TRANSFERRED TO  
BAKER COLLEGE** **51**

#### ARTICULATION AGREEMENT

This transfer guide is part of a formal articulation agreement between Baker College and Wayne County Community College. The complete, signed document is kept on file at both Wayne County Community College and Baker College.

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## Wayne County Community College

### Bachelor of Science — Mechanical Engineering

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**COURSES TO BE COMPLETED WITH BAKER COLLEGE – BS MECHANICAL ENGINEERING PROGRAM**

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<b>Course</b>	<b>Number</b>	<b>Course Title</b>	<b>Credit Hours</b>
EE	2110	CIRCUITS AND ELECTRONICS I	04
EE	3610	DYNAMIC SYSTEMS AND CONTROL	03
EGR	1050	INTRODUCTION TO ENGINEERING AND DESIGN	02
EGR	2710	COMPUTING FOR ENGINEERS	02
EGR	3210	ENGINEERING ECONOMY	02
EGR	4910	ENGINEERING PROJECT MANAGEMENT	03
EGR	4920	SENIOR DESIGN PROJECT	02
ISE	2110	MANUFACTURING PROCESSES	03
ME	2110	MATERIALS SCIENCE	04
ME	2210	STATICS	03
ME	2250	DYNAMICS	03
ME	2410	INTRODUCTION TO 3D MODELING	03
ME	2450	INTRODUCTION TO COMPUTER AIDED ENGINEERING (CAE)	02
ME	3210	SOLID MECHANICS	03
ME	3220	SOLID MECHANICS AND VIBRATIONS LAB	01
ME	3250	VIBRATIONS	03
ME	3270	MECHANICAL DESIGN	04
ME	3310	THERMODYNAMICS	03
ME	3410	FLUID MECHANICS	03
ME	4310	HEAT TRANSFER	03
ME	4350	THERMAL SYSTEMS LAB	01
ME	XXXX	MECHANICAL ENGINEERING TECHNICAL ELECTIVE II	03
ME	XXXX	MECHANICAL ENGINEERING TECHNICAL ELECTIVE III	03
MTH	2750	STATISTICAL METHODS	03
WRK	3010	WORK EXPERIENCE	03
<b>TOTAL CREDIT HOURS REMAINING AT BAKER COLLEGE</b>			<b>69</b>
<b>PROGRAM TOTAL</b>			<b>120</b>

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**Effective Date:** August 1, 2019 — July 31, 2022