



Transfer Pathway Planning Guide
Catalog Year 2024-25

Community College
WSU College/School
Major
Degree/Credits

Macomb Community College
College of Engineering
Electrical/Electronic Engineering Technology
Bachelor of Science (BS) in Electrical/Electronic Engineering Tech / 124 credits

Achieving your goal of obtaining a four-year degree is attainable through the collaborative effort of Macomb and Wayne State. Begin your journey by earning an associate degree at Macomb, followed by a seamless transition to Wayne State for the completion of your bachelor's degree. Throughout this academic pursuit, you have the opportunity to embrace the diverse experiences and communities offered by both campuses.

Macomb Community College

Program/Major (Degree)	Credits (min.)
Associate of Science (AS)	60
Associate of General Studies (AGS)	60
Pre-engineering (AS)	62

Michigan Transfer Agreement (MTA) -Satisfies WSU University General Education requirements.

Discipline	Course (specific course required, if listed)	Credits	WSU Equivalent
English Composition	ENGL 1180 Communications 1 (or ENG 1210)	3-4	ENG 1020
	ENGL 1190 Communications 2 (or ENG 1220)	3-4	ENG 3010
Humanities/Fine Arts	PHIL 2100 Intro to Ethics	3	PHI 2320
	See MTA; approved humanities/fine arts	3	See advisor
Mathematics	MATH 1465 Accelerated Calculus	5	MAT 1800
Sciences	CHEM 1050 Intro to Chemistry	4	CHM 1020
	PHYS 1180 College Physics 1	4	PHY 2130/21
Social Sciences	See MTA; approved social science	3	See advisor
<i>Must be from different disciplines</i>	See MTA; approved social science	3	See advisor

TOTAL CREDITS 31-33 (30 minimum)

Note: Starting Fall 2024 ENGL 1181 Communications 1 is acceptable for ENGL 1180.

Required courses

Course	Credits	WSU Equivalent
BCOM 2050 Business Communication	4	ENG 3050
MATH 1760 Calculus	4	ET 3430
PHY 1190 College Physics	4	PHY 2140/21
ITCS 2530 C+++ Programming 1	4	ET 2160
MECT 1141 Basic Electronic	3	EET 2000
ELEC 1211 Digital Electronics Basics	3	EET 2100
Any ARCH, ATAM, ATAP, ATBC, ATDD, ATEM, ATMT, ATPP, ATSS, ATTR, ATWD, AUTO, CIVL, CLCT, CORE, CNST, DRAD DRCG ELEC, ENGR MACA MECT, PRDE, RNEW, ROBO, SURV.	21	Lower Division Technical

TOTAL CREDITS 43

Transfer credit summary

	Credits
Michigan Transfer Agreement (MTA)	31-33
Required courses	43



Transfer Pathway Planning Guide
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Pathway (see Macomb degree requirements and/or electives) *	0-3
TOTAL TRANSFER CREDITS	77-80

*Some specific course(s) not included may satisfy specific Wayne State requirements.

Wayne State University

Bachelor of Science (BS) in Electrical/Electronic Engineering Technology

Course	Credit	Macomb equivalent
EET 2720 Microprocessor Fundamentals	3	
ET 3430 Applied Differential and Integral Calculus	4	MATH 1760
ET 3450 Applied Calculus and Differential Equations	4	
ET 3850 Reliab & Engineering Stats	3	
ET 3870 Engineering Economic Analysis	3	
ET 5870 Engineering Project Management	3	
EET 3100 Advanced Digital Design	3	
EET 3150 Network Analysis	4	
EET 3180 Analog Electronics	4	
EET 3300 Applied Signal Processing	3	
EET 3500 Electrical Machines and Power Systems	3	
EET 3720 Micro and Programmable Controllers	3	
EET 4200 Control Systems	4	
Upper Division Technical (see advisor)	6	
ET 4999 Senior Design Project	3	
TOTAL CREDITS	53	

Wayne State credit summary – minimum 124 credits required for BS degree

	Credits
Major	53
<ul style="list-style-type: none"> • Accelerated Graduate Enrollment (AGRADE) • Hands-on experience 	
TOTAL WAYNE STATE CREDITS	53
TOTAL WAYNE STATE and TRANSFER CREDITS	127-132

Wayne State electives and degree enhancements

Consider electives as additional opportunities for you to gain marketable skills like critical thinking, leadership, and communication. These skills build a strong foundation for long-term career success.

Defined broadly, career learning includes, but is not limited to, the following:

- Interdisciplinary project-based learning and field work
- Internships, micro-externships, and co-ops
- Global experiences/education abroad
- Community service learning
- Team-based solutions, oriented experiences
- Research in the field and in lab settings
- Alumni and professional mentoring, job shadowing and other developmental experiences
- Entrepreneurship and other business development opportunities

Notes



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Catalog Year 2024-25

- You can review how all courses transfer using the [course equivalency tool](#). For a self-service, customized WSU degree audit, please visit <https://wayne.edu/transfer/tess>
- Wayne State requires a minimum of 30 credits in residency.
- The pathway allows multiple associate degree options with the flexibility to customize your degree path. The minimum eligibility to participate in the Wayne State Transfer Pathways is a cumulative GPA of 2.5 or above, Michigan Transfer Agreement (MTA), and an associate degree (earned or Reverse Transfer). See [transfer credit guidelines](#).
- All college-level (non-developmental), non-duplicated courses with a 2.0 (C) grade point average (GPA) or above will be considered for transfer credit. Earned credit will transfer as 1) direct course equivalency, 2) major/department credit, or 3) elective credit. Credits not earned at Macomb will need to be taken at WSU.
- These pathways do not replace the importance of Macomb and Wayne State academic advising. The pathway provides a general roadmap to degree completion.