

**Transfer Requirements and Equivalencies
into the MSOE AAS-ECET to BSEE Transfer Pathway**

MSOE: AAS-EET to BSEE Transfer Pathway in the BS in Electrical Engineering program
Western: AAS-ECET Associate of Applied Science in Electronic and Computer Engineering Technology

MSOE Course Numbers and Names	Western Course Numbers ^a
1. COM 1001 College Writing	801136
2. COM 2001 Writing for STEM Disciplines	801197
3. MTH 1110 Calculus I	804231 ^d
4. MTH 1120 Calculus II	804232 ^d
5. General Education elective ^b (for PSY 1001; Curiosity CLO)	809198
6. General Education elective ^b (for SOC 1001; Diversity CLO)	809196
7. PHY 1110 Physics I Mechanics and Thermodynamics	806154 806158 ^d
8. ELE 1000 Introduction to EE	660115
9. ELE 2001 Electric Circuits I	660115 660116 662105 ^c
10. ELE 3141 Transfer Electronics	660125 662157 662105 ^c 662106 ^c
11. ELE 1801 Transfer Digital Logic and Embedded Systems	662134 662137 663100
12. ELE 3401 Electric Power and Machines	662105 ^c 663171
13. Technical Elective ^b	620127 620131
14. Free Elective ^b	606184 662153

^a All courses in each category must be satisfied for transfer credit of the designated MSOE course. All Two-year College EET program course titles are stated on the next page.

^b Listed Two-year College course(s) is approved in this elective category. Any other Two-year College course requires approval by MSOE in advance of the student taking the course. Retroactive approval is not guaranteed.

^c 662-105, a prerequisite to 662-106, must be taken and passed with a grade of C (not C-) or better prior to when 662-106 is taken in order for 662-106 to be eligible for transfer consideration to MSOE.

^d This course(s) is an elective or is not in the EET program at the Two-year College. If not fulfilled, additional course(s) must be taken at MSOE to fulfill BSEE degree requirements. Consult with an EE transfer advisor at MSOE.

Western Course Listing
(In effect at Western in Fall 2025 for transfer to MSOE in Fall 2027)

Fall 2025	Course #	Title	Credits
Session 1	660115	DC/AC 1	3
	890106	Strengths Seminar*	1
	809196	Intro to Sociology	3
Session 2	660116	DC/AC 2	3
	804212	College Algebra**	4
	660108	Electronic Skills*	1
			15

Spring 2026	Course #	Title	Credits
Session 1	660125	Electronic Devices	4
	804213	Trigonometry**	3
	663100	Engineering Software	2
Session 2	662137	Digital Electronic Concepts	4
	806154	General Physics 1	4
			17

Summer 2026	Course #	Title	Credits
Session 1	809198	Intro to Psychology	3
Session 2	801136	English Composition 1	3
			6

Fall 2026	Course #	Title	Credits
Session 1	606184	Solidworks	2
	662157	Integrated Circuit Applications	3
	662105	Advanced Circuits	3
Session 2	662153	Intro to LabVIEW	2
	662134	Embedded Systems	4
Full semester	804231	Calculus and Analytic Geometry 1***	5
			19

Spring 2027	Course #	Title	Credits
Session 1	620127	Industrial Controls Applications	2
	662106	Advanced Electronics	3
	806158	Calc Physics 1 Enhancement****	1
Session 2	620131	Industrial Controls Programming	2
	663171	Power Conversion Analysis	3
	801197	Technical Reporting	3
Full semester	804232	Calculus and Analytic Geometry 2***	5
			19

* Required in the Western AAS-ECET program but does not transfer into BSEE at MSOE.

** Does not transfer into BSEE at MSOE but is pre-requisite to Calculus and Analytic Geometry 1.

*** Not required in the Western AAS-ECET program but is required to start on track in the AAS-EET to BSEE Transfer Pathway at MSOE.

**** Both 806154 and 806158 Calc Physics 1 Enhancement are required to transfer for PHY 1110 at MSOE.