

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

MSOE: AAS-EET to BSEE Transfer Pathway in the BS in Electrical Engineering program
NWTC: AAS-EET Associate of Applied Science in Electrical Engineering Technology

MSOE Course Numbers and Names	NWTC Course Numbers ^a
1. COM 1001 College Writing	10-801-136
2. COM 2001 Writing for STEM Disciplines	10-801-197
3. MTH 1110 Calculus I	10-804-198
4. MTH 1120 Calculus II	10-804-181
5. General Education elective ^b (for PSY 1001; Curiosity CLO)	10-809-198
6. General Education elective ^b (for HUM 0104; Diversity CLO) OR (for SOC 1001; Diversity CLO)	10-809-172 OR 10-809-196
7. PHY 1110 Physics I Mechanics and Thermodynamics	10-806-154 10-806-158
8. ELE 1000 Introduction to EE	10-660-116, -105
9. ELE 2001 Electric Circuits I	10-660-105, -106, -108, -109, -116 10-662-105 ^c
10. ELE 3141 Transfer Electronics	10-660-110, -111, -112 10-605-160, -161, -162 10-662-105 ^c , -106 ^c
11. ELE 1801 Transfer Digital Logic and Embedded Systems	10-605-163, -164, -165, -166 10-605-169 10-660-101, -102, -103, -113
12. ELE 3401 Electric Power and Machines	10-620-161, -162 10-662-105 ^c 10-664-102
13. Technical Elective ^b	10-605-170, -171, -172 (in effect starting Fall 2015)
14. Free Elective ^b	10-606-140 10-620-140

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. 10-662-105, a prerequisite to 10-662-106, must be taken and passed with a grade of C (not C-) or better in a semester prior to when 10-662-106 is taken in order for 10-662-106 to be eligible for transfer consideration to MSOE.

NWTC Course Listing Electrical Engineering Technology (10-662-1 Program Sequence Sheet)
In effect at NWTC in Fall 2025 for transfer to MSOE in Fall 2027

	Course Number	Course Title	Credits
1st Sem 8 wk 1	10-660-101	Digital 1: Logic	1
	10-660-102	Digital 2: Sequential	1
	10-660-105	DC 2: Circuits	1
	10-660-116	Introduction to AC/DC	2
	10-890-101*	College 101	1
1st Sem 8 wk 2	10-606-140	CAD-Electrical Control	2
	10-620-140	Machine Wiring and Safety	1
	10-660-103	Digital 3: Registers	1
	10-660-106	DC 3: Circuit Theorems	1
1st Sem Full	10-804-197*	College Algebra and Trigonometry w Apps	5
		Total	16
2nd Sem 8 wk 1	10-660-108	AC 2: Reactance	1
	10-660-110	Electronics 1: Diodes-Basic	1
	10-660-111	Electronics 2: Trans-Basic	1
	10-660-113	Digital 4: ALU	1
2nd Sem 8 wk 2	10-605-163	Micro 1: Introduction	1
	10-660-109	AC 3: RLC Circuits	1
	10-660-112	Electronics 3: Op-Amps-Basic	1
2nd Sem Full	10-804-198	Calculus 1	4
	10-806-154**	General Physics 1	4
		Total	15
Summer (before third Semester)	10-801-136	English Composition 1	3
	10809172 OR 10809196	Intro to Diversity Studies OR Intro to Sociology [either course recommended; 10-809-195 is not recommended]	3
		Total	6
3rd Sem 8 wk 1	10-605-160	Linear Electronics 1: BJT Amps	1
	10-605-161	Linear Electronics 2: JFET Amp	1
	10-605-164	Micro 2: Technique	1
	10-605-170***	Datacomm 1: Introduction	1
	10-605-171***	Datacomm 2: Basic Networking	1
3rd Sem 8 wk 2	10-605-162	Linear Electronics 3: Filters	1
	10-605-165	Micro 3: Interfaces	1
	10-605-172***	Datacomm 3: Network Protocols	1
	10-806-158**	Calc Physics 1 Enhancement	1
3rd Sem Full	10-662-105	Advanced Circuits	3
	10-804-181	Calculus 2	4
		Total	16
4th Sem 8 wk 1	10-620-161	Power Electricity 1: Motors	1
	10-620-162	Power Electricity 2: Motors	1
	10-664-102	Automation 3: PLC	1
4th Sem 8 wk 2	10-605-166	Micro 4: Advanced Interfacing	1
	10-801-197	Technical Reporting	3
	10-809-198	Intro to Psychology	3
4th Sem Full	10-605-169	Electronics Design Integration	3
	10-662-106	Advanced Electronics	3
		Total	16
		Grand Total	69

* This course is required in the NWTC EET program to earn the AAS-EET degree but does not count toward transfer requirements into the MSOE AAS-EET to BSEE Transfer Pathway program.

** Both 806-154 and 806-158 Calc Physics 1 Enhancement are required to transfer for PHY 1110 at MSOE.

*** These courses with two revised course titles commenced Fall 2015 and are applicable for transfer after Fall 2015.