

**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  
MATC: AAS-EET Associate of Applied Science in Electronic Engineering Technology

<b>MSOE Course Numbers and Names</b>	<b>MATC Course Numbers <sup>a</sup></b>
1. COM 1001 College Writing	ENG-201 <b>OR</b> ENG-195
2. COM 2001 Writing for STEM Disciplines	ENG-208
3. MTH 1110 Calculus I	MATH-231
4. MTH 1120 Calculus II	MATH-232
5. General Education elective <sup>b</sup> (for PSY 1001; Curiosity CLO)	PSYCH-231
6. General Education elective <sup>b</sup> (for SOC 1001; Diversity CLO)	SOCSCI-203
7. PHY 1110 Physics I Mechanics and Thermodynamics	PHYS-274
8. ELE 1000 Introduction to EE	QETECH-200 ELCTEC-110 (or -115)
9. ELE 2001 Electric Circuits I	ELCTEC-110 (or -115) ELCTEC-111 (or -116) ELCTEC-105 <sup>c</sup>
10. ELE 3141 Transfer Electronics	ELCTEC-120 (or -118) ELCTEC-121 ELCTEC-105 <sup>c</sup> ELCTEC-106 <sup>c</sup>
11. ELE 1801 Transfer Digital Logic and Embedded Systems	ELCTEC-130 (or -117) ELCTEC-140 (or -119) ELCTEC-141
12. ELE 3401 Electric Power and Machines	ELCTEC-105 <sup>c</sup> ELCTEC-195
13. Technical Elective <sup>b</sup>	ELCTEC-150
14. Free Elective <sup>b</sup>	ELCTEC-196

<sup>a</sup> All courses in each category must be satisfied for transfer credit of the designated MSOE course (unless separated by “**OR**”). All Two-year College EET program course titles are stated on next page.

<sup>b</sup> 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.

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

**MATC Course Listing**  
**10-605-7 - Electronic Engineering Technology**  
**MSOE-BSEE Transfer Option**  
**(in effect at MATC in Fall 2025 for transfer to MSOE in Fall 2027)**

**Semester One**

Course Number	Course Description	Credits
QETECH-200	Fundamentals of Engineering	3
ELCTEC-110 or 115	DC/AC Electronics 1	4
ELCTEC-130 or 117	Digital Electronics	3
ENG-201 <b>OR</b> ENG-195	English I <b>OR</b> Written Communication	3
PSYCH-231	Introductory Psychology	3
	Semester Total	16

**Semester Two**

Course Number	Course Description	Credits
ELCTEC-111 or 116	DC/AC Electronics 2	3
ELCTEC-120 or 118	Electronic Devices	4
ELCTEC-140 or 119	Microprocessors	3
MATH-231	Analytic Geometry and Calculus 1	5
SOCSCI-203	Introduction to Sociology	3
	Semester Total	18

**Semester Three**

Course Number	Course Description	Credits
ELCTEC-105	DC/AC 3 Advanced Circuits	3
ELCTEC-121	Electronic Devices Advanced	3
ELCTEC-150	Data Comm. & Networking	3
ELCTEC-196	PLC Systems Basic	3
MATH-232	Analytic Geometry and Calculus 2	5
	Semester Total	17

**Semester Four**

Course Number	Course Description	Credits
ELCTEC-106	Advanced Electronics Analysis	3
ELCTEC-141	Microcontrollers	3
ELCTEC-195	Motors and Controls	4
PHYS-274	Calculus-Based Physics 1	4
ENG-208	Technical Communications	3
	Semester Total	17
Electives*	(required in MATC EET program)	5
AAS-EET Program BSEE Transfer Option Credits Total		73

\* Recommended electives to select from for additional transfer credit:

(Consult with an MSOE transfer counselor or advisor before taking elective courses for transfer)

MATH-233	Analytic Geom. & Calculus 3 (5 cr)	MTH 2130
SPEECH-201	Elements of Speech (3 cr)	COM 3001
ECON-195	Economics (3 cr)	BUS 2222
ECON-201	Principles of Microeconomics (3 cr)	BUS 2221
ECON-202	Principles of Macroeconomics (3 cr)	BUS 2222