

## 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

Gateway: AAS-EET Associate of Applied Science in Electrical Engineering Technology

MSOE Course Numbers and Names	Gateway Course Numbers <sup>a</sup>
1. COM 1001 College Writing	801-136
2. COM 2001 Writing for STEM Disciplines	801-197
3. MTH 1110 Calculus I	804-198
4. MTH 1120 Calculus II	804-181 (summer 2022 or after) <b>OR</b> 804-210
5. General Education elective <sup>b</sup> (for PSY 1001; Curiosity CLO)	809-198
6. General Education elective <sup>b</sup> (for SOC 1001; Diversity CLO)	809-196
7. PHY 1110 Physics I Mechanics and Thermodynamics	806-154 806-158
8. ELE 1000 Introduction to EE	605-113
9. ELE 2001 Electric Circuits I	605-113 605-114 662-105 <sup>c</sup>
10. ELE 3141 Transfer Electronics	605-120 605-121 662-105 <sup>c</sup> 662-106 <sup>c</sup>
11. ELE 1801 Transfer Digital Logic and Embedded Systems	605-130 605-190
12. ELE 3401 Electric Power and Machines	605-150 662-105 <sup>c</sup>
13. Technical Elective <sup>b</sup>	605-133
14. Free Elective <sup>b</sup>	605-136 <sup>d</sup> <b>OR</b> 664-118 <sup>d</sup>

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 successfully passed with a grade of C (not C-) or above 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.

d This course(s) is an elective or is not required 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.

**Gateway Course Listing**  
**Electrical Engineering Technology**  
**(in effect at Gateway in Fall 2025 for transfer to MSOE in Fall 2027)**

**Term 1 (Fall)**

<u>Course Number</u>	<u>Course Title</u>	<u>Credits</u>
890-155*	Gateway to Success	1
605-113	DC / AC I	3
605-130	Digital Electronics	4
801-136	English Composition 1	3
804-115*	College Technical Math 1	5
<b>Term Total</b>		<b>16</b>

**Term 2 (Spring)**

605-114	DC / AC II	3
605-120	Electronic Devices I	4
801-197	Technical Reporting	3
804-197*	College Algebra & Trig with Apps	5
<b>Term Total</b>		<b>15</b>

**Term 3 (Summer)**

605-121	Electronic Devices II	4
804-198	Calculus 1	4
809-198	Psychology, Introduction to	3
<b>Term Total</b>		<b>11</b>

**Term 4 (Fall)**

605-133	Industrial Data Communications	3
605-190	Microprocessors	4
662-105	Advanced Circuits	3
804-181	Calculus 2	4
<b>Term Total</b>		<b>14</b>

**Term 5 (Spring)**

605-150	Industrial Electronics	3
662-106	Advanced Electronics	3
806-154**	General Physics 1	4
809-196	Sociology, Introduction to	3
<b>Term Total</b>		<b>13</b>
<b>Program Total</b>		<b>69</b>

Additional course(s) required to satisfy AAS transfer requirements:

806-158**	Calc Physics 1 Enhancement	1
605-136***	Programmable Controller System Design	3, <b>OR</b>
664-118***	PLC and HMI Programming	3

\* This course is required in the Gateway 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 are required to transfer for PHY 1110 at MSOE.

\*\*\* Approved for transfer as a Free Elective in the MSOE AAS-EET to BSEE Transfer Pathway program. Only one Free Elective is required.