

Electrical Engineering (AES)

Degree Pathway¹



WAUBONSEE
COMMUNITY COLLEGE

The following table sets out recommended courses to earn an associate degree at Waubonsee and transfer on to become an electrical engineering major at a four-year school. Courses are mapped to the requirements of the general Associate in Arts and/or Associate in Science degrees, complete with categories noted in bold and credit hours noted in parentheses. To see the full list of degree requirements and course options, visit waubonsee.edu/transfer

<p style="text-align: center;">1st Semester</p> <ul style="list-style-type: none"> ○ ENG 101 – First-Year Composition I (3) <i>with or without ENG 099</i>² ○ MTH 131 – Calculus With Analytic Geometry (4)² ○ CHM 121 – General Chemistry(4)² ○ CIS 115 – Introduction to Programming(3)⁴ <p style="text-align: center;">Total Credits = 14 - 15</p>	<p style="text-align: center;">2nd Semester</p> <ul style="list-style-type: none"> ○ ENG 102 – First-Year Composition II (3) ○ MTH 132 – Calculus with Analytic Geometry II (4)² ○ PHY 221 – General Physics I (5)^{2,4} ○ CIS 130 – C++ Programming (3)⁴ <p style="text-align: center;">Total Credits = 15</p>
<p style="text-align: center;">3rd Semester</p> <ul style="list-style-type: none"> ○ MTH 233 – Calculus With Analytic Geometry III (4) ○ PHY 222 – General Physics II (5)⁴ ○ EGR 220 – Analytical Mechanics–Statistics (3)⁴ ○ CIS 230 – Advanced C++ (3)⁴ ○ IAI Social Behavioral <u>OR</u> Humanities & Fine Arts (3)^{3,4} <p style="text-align: center;">Total Credits = 15</p>	<p style="text-align: center;">4th Semester</p> <ul style="list-style-type: none"> ○ COM 100 - Fundamentals of Speech Communication (3) ○ MTH 240 – Differential Equations (3)⁴ ○ EGR 230 – Analytical Mechanics Dynamics (3)⁴ ○ IAI Social Behavioral <u>OR</u> Humanities & Fine Arts (3)^{3,4} ○ IAI Social Behavioral <u>OR</u> Humanities & Fine Arts (3)^{3,4} <p style="text-align: center;">Total Credits = 15</p>

1. Certain colleges have specific requirements. Please see a Counselor or Advisor for detailed requirements.
2. Take your placement test and work with a counselor as certain colleges have specific requirements.
3. At least one course from Social and Behavioral Science or Humanities and Fine Arts must meet the Non-Western/Diversity requirement.
4. Please see a Counselor or Advisor for detailed requirements.

Waubonsee does not discriminate based on any characteristic protected by law in its programs and activities.