Mechanical Engineering (AES)

Degree Pathway¹

The following table sets out recommended courses to earn an associate degree at Waubonsee and transfer on to become a

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mechanical 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

	1 st Semester		2 nd Semester
0	ENG 101 – First-Year Composition I (3) <i>with</i> or <i>without ENG 099</i> ²	0	ENG 102 – First-Year Composition II (3)
0	MTH 131 – Calculus With Analytic Geometry $(4)^2$	0	MTH 132 – Calculus with Analytic Geometry II $(4)^2$
0	CHM 121 – General Chemistry (4) ²	0	 PHY 221 – General Physics I (5)^{2,4} CIS 130 – C++ Programming (3)⁴
0	CIS 115 – Introduction to Programming $(3)^4$ Total Credits = 14 - 15	0	EGR 101 – Engineering Graphics (3) ⁴
			Total Credits = 18
	3 rd Semester		4 th Semester
0	MTH 233 – Calculus With Analytic Geometry III (4)	0	COM 100 - Fundamentals of Speech Communication (3)
0	PHY 222 – General Physics II (5) ⁴	0	MTH 240 – Differential Equations (3) ⁴
0	EGR 220 – Analytic Mechanics–Statistics (3) ⁴	0	EGR 230 – Analytical Mechanics Dynamics (3) ⁴
0	CIS 230 – Advanced C++(3) ⁴	0	IAI Social Behavioral <u>OR</u> Humanities & Fine Arts (3) ^{3,4}
	Total Credits = 15	0	IAI Social Behavioral <u>OR</u> Humanities & Fine Arts (3) ^{3,4}
		0	IAI Social Behavioral <u>OR</u> Humanities & Fine Arts (3) ^{3,4}
			Total Credits = 18

- 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.