

Four-Year Gateway Degree Pathway Planner

B.S. Automation & Robotics Engineering Technology

For students admitted Fall 2026 and after.

Explanation: Your individual plan may vary based on course availability and individual goals. You should always consult with your advisor regularly and reference the course catalog available on the MU Web site.

FIRST YEAR

FALL SEMESTER		SPRING SEMESTER	
Recommended Course Selections	Credits	Recommended Course Selections	Credits
AENG 241 Drafting Communications	4	AENG 262 Semiconductor Electronics	4
AENG 161 Electronic Systems	4	OSEH 120 Occupational Safety & Environ. Health Issues	3
ENG 110 English Composition	3	MATH 130 or Prerequisite	3
FYEX 100 First-Year Experience	3	COMM 100 Oral Communication	3
(Take CHEM placement test)	-	GEN ED: Gateway Course	3
Total Credits for Semester	14	Total Credits for Semester	16

SECOND YEAR

FALL SEMESTER		SPRING SEMESTER	
Recommended Course Selections	Credits	Recommended Course Selections	Credits
AENG 130 Materials & Processes	4	AENG 365 Programmable Logic Controllers 1	4
AENG 325 Power Conversion & Control	4	AENG 342 Solid Modeling & 3D Prototyping	4
AENG 225 Industrial Robotics 1	4	GEN ED: Gateway Course	3
MATH 151/161 Calculus (pick one)	4	CSCI 151/161 Intro. to Programming 1	4
Total Credits for Semester	16	Total Credits for Semester	15

THIRD YEAR

FALL SEMESTER		SPRING SEMESTER	
Recommended Course Selections	Credits	Recommended Course Selections	Credits
AENG 425 Industrial Robotics 2	4	AENG 300+ Elective / Internship	4
CHEM 111 Intro to Chemistry	4	AENG 326 Fluid Power	4
PHYS 131/231 Physics 1 (pick one)	5	AENG 427 Programmable Logic Controllers 2	4
GEN ED: Gateway Course	3	Free Elective (optional minor*)	3
Total Credits for Semester	16	Total Credits for Semester	15

FOURTH YEAR

FALL SEMESTER		SPRING SEMESTER	
Recommended Course Selections	Credits	Recommended Course Selections	Credits
AENG 468 Control Net. Integration	4	AENG 470 Senior Seminar	1
AENG 492 Total Quality Management	4	AENG 467 Mobile Robotics	4
WRIT 312/316/319 (pick one)	3	GEN ED: Keystone Course	3
Free Elective (optional minor*)	3	Free Elective (optional minor*)	3
		Free Elective (optional minor*)	3
Total Credits for Semester	14	Total Credits for Semester	14

* Minor requirements vary, consult with your Advisor.

8/25; eff. fall 2026