



EKU Major: B.S.E. Advanced Manufacturing Date Created: 7/30/25

Option:

The equivalency information provided in this pathway is relative to the date created and not a guarantee of applicability. For the most updated information, work directly with EKU SOTO.

KCTCS ASSOCIATE IN SCIENCE PATHWAY

AS General Education Requirements (41/33 hours)

Communication Block (9 hours)

		Cr	Term	EKU Eq.
Written Communication (6)	ENG 101: Writing I (3)	3	☐	ENG 101
	ENG 102: Writing II (3)	3	☐	ENG 102
Oral Communication (3)	Any Oral Communication Course	3	☐	TBD

Arts & Humanities Block (6 hours)

Heritage (3)	Any Heritage Course	3	☐	TBD
Humanities (3)	Any Humanities Course	3	☐	TBD

Social & Behavioral Science Block (6 hours)

Social & Behavioral Sciences (6) *Two disciplines must be represented and different from Arts & Humanities	ECO 201: Principles of Microeconomics (3)	3	☐	ECO 230
	ANY Social Behavioral Science (3)	3	☐	TBD

Natural Science Block (3 hours)

Natural Sciences (3)	PHY 231: General University Physics I (4)	4	☐	PHY 201
Natural Science Lab	PHY 241: General University Physics I Laboratory* (1)	1	☐	

Quantitative Reasoning Block (3 hours)

Quantitative Reasoning (3)	MAT 175: Calculus I (5)	5	☒	MAT 234
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AS General Education Certification (6 hours)

Natural Sciences (3)	CHE 170: General College Chemistry I (4) & CHE 175 General College Chemistry Lab	5	☐	CHE 111 & 111L
Quantitative Reasoning (3)	MAT 185: Calculus II (5)	5	☐	MAT 244

Associate in Science Major Requirements (9/6 hours)

AS Major Component (6 hours)

Natural Sciences OR	PHY 232: General University Physics II (4) & PHY 241: General University Physics I2 Laboratory* (1)	5	☐	PHY 202
Quantitative Reasoning (6)	MAT 275: Calculus III (4)	4	☐	MAT 254

Elective Courses (10/21 hours)

Digital Literacy (3)	CAD 100: Intro to Computer Aided Drafting (3)	3	☐	MFE 195
College Success Course (3)	FYE 110: First year Experience and Applications	3	☐	
Guided Electives (15+)	MAT 285: Differential Equations	3	☐	MAT 353
	Free elective to reach 60 hours	1	☐	
			☐	
			☐	
			☐	

Graduation Checklist: ☐ College Success Course ☐ Cultural Studies Credit ☐ Digital Literacy Credit
☐ 2.0 Cumulative GPA ☐ 60/60 College Credit Hours ☐ Residency Requirement Met

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Advising Notes

- Some areas will exceed the number of credit hours required for the section. Additional hours will be carried into the next applicable section for free electives.