



TRANSFER PATHWAY GUIDE

FOR

JCTC Associate in Science to KSU Bachelor in Science Manufacturing Engineering Technology

Effective Date {Insert Date Pathway Approved}

Overview

Completion of the following curriculum will satisfy the requirements for the Associate in Science (AS) degree at the Kentucky Community and Technical College System and leads to the Bachelor of Science degree in Manufacturing Engineering Technology at Kentucky State University.

Admission Requirements

Successful completion of all coursework for the AS degree with a focus in pre-engineering at Jefferson Community and Technical College [Admissions | JCTC](#)

Students participating in this agreement must meet Kentucky State University Admissions requirements: KSU Admissions: [Transfer Students](#)

Degree Requirements

- *An earned Associate in Science Degree*

Prospective transfer students will contact the Office of the Registrar at Kentucky State University to obtain information that will be helpful for their transfer, such as the process for applying to the institution, relevant deadlines, and scholarship information. <https://www.kysu.edu/student-success-and-retention/transfer-students/index.php>

General Transfer Requirements

This proposed transfer pathway is for students that have successfully completed an Associate in Science degree following the Checklist that is included on the following page. If a JCTC student has not completed all coursework requirements to satisfy the AS degree and/or course requirements to be considered general education certified, transfer of successfully completed courses will be at the discretion of the departmental representatives of KSU.

JCTC AS TO KSU BS IN MANUFACTURING ENGINEERING TECHNOLOGY CHECKLIST

Jefferson Community and Technical College

Category 1: KCTCS General Education Core Requirements (33 hours) [AS](#) requirements linked.

KCTCS Course	Course or Category	Credits	KSU Course	Completed
ENG 101	Writing I	3	ENG 101	
ENG 102	Writing II	3	ENG 102	
COM 252	Interpersonal Communication	3	COM 103	
TBS XXX	Heritage	3	TBD XXX (KSU humanities block) HIS 108)	
ART 100, MUS 100, THA 101, or ENG 161	Introduction to Art, Introduction to Music, Introduction to Theatre: Principles and Practice OR Introduction to Literature	3	ART 130, THA 130, MUS 130 or ENG 211 (KSU Art block)	
MAT 150	College Algebra	3	MAT 115	
MAT 155	Trigonometry	3	Elective	
PHY 231 & 241	General University Physics I and General University Physics I lab	5	PHY 211	
CHE 175	General College Chemistry I Lab	1	CHE 110	
ECO 201	Microeconomics	3	ECO 201 (S&B 1)	
PSY 110 or SOC 101	General Psychology or Introduction to Sociology	3	PSY 200 or SOC 203 (S&B 2)	
	Subtotal General Education Core Courses	33		

TBS XXX means to be selected by JCTC student.

TBD XXX means to be determined by KSU based on course selected.

**Minimum grade of "C" required

*For Social and Behavioral Sciences courses, two disciplines must be represented and different from those in the Arts and Humanities category.

Category 2: KCTCS AS Requirements (6 hours)

KCTCS Course	Course or Category	Credits	KSU Course	Completed
MAT 175	Calculus I	5	MAT 131	
MAT 185	Calculus II	1 of 5 (See additional credits below).	MAT 132	
	Subtotal AS Requirement Courses	6		

Category 3: KCTCS Electives (21 hours)

KCTCS Course	Course or Category	Credits	KSU Course	Completed
CIT 105	Introduction to Computers or Test Out with IC3 full certification or CIT STEP exam	3	TBD XXX	
FYE 105 OR FYE 110 OR FYE 100*	First-Year College Success Course/Experience	0-3	FYE 118	
CHE 170	General College Chemistry I	4	CHE 101	
MAT 185	Calculus II	4 of 5 (See additional credit above).	MAT 132	
STA 220	Statistics	3	MAT 200	
POL 101 or POL 235	American Government or World Politics	3	POS 101 or POS 361 (Global & Civic)	
CIT 120	Computational Thinking	3	COS 107	
	Subtotal Elective Courses	23		
	TOTAL Associate Degree Hours	62		

*Some colleges have policies that allow students to fulfil the College Success Requirement by waiver or exemption.

Kentucky State University

Major Requirements for Bachelor in Science Manufacturing Engineering Technology {Please include a link here to the degree requirements on the transfer institution website if available.}

KSU Course	Course	Credits	KCTCS Course	Taken at KCTCS
PHY 212	General Physics II w/Lab	5	PHY 232/242	
MFG 208	Computer-Aided Design (CAD)	3		
EGR 220	Introduction to Materials, Processes, and Testing	3		
MFG 209	Fundamentals of Manufacturing & Processes	3		
MFG 210	Manufacturing Processes and Materials	3		
EGR 221	Robotics	3		
EGR 222	Economic Analysis for Engineering and Technology	3		
EGR 320	Fluid Power Technology and Lab	3		
MFG 308	Industrial Supervision	3		
MFG 309	Computer Integrated Manufacturing	3		
MFG 310	Lean Manufacturing	3		
MFG 311	Quality Management Systems	3		

MFG 312	Programmable Logic	3		
MFG 313	Manufacturing Resource Planning and Control	3		
Guided Elective (PHY 320)	Engineering Thermodynamics	3		
MFG 408	Research and Development in Technology	3		
EGR 420	Project Management	3		
MFG 409	Production Planning and Control	3		
EGR 421	Capstone Design I	3		
MFG 410	Logistic and Supply Chain Management	3		
EGR 422	Capstone Design II	3		
Subtotal KSU Credit Hours		65		
Total Baccalaureate Degree Credit Hours		127		

Updated: {insert effective date for transfer pathway}

Career Pathway

{Identifying information (student's name, ID number, accumulated hours, GPA, etc.)}

{Contact Information – PC, DH, or Dean or assigned advisor}

COURSE CHECKLIST

1 – 15 Credit Hours

KCTCS Course	Category	Credits	Semester/ Completed	Notes/Action Steps
ENG 101 Writing I	Written Comm	3		KSU ENG 101
COM 252 Interpersonal Communication	Oral Comm	3		KSU COM 103
MAT 150 College Algebra	Quantitative Reasoning	3		
FYE 105 Achieving Academic Success	First-year experience	3		KCTCS Grad. Requirement
ECO 201 Microeconomics	Social/Behavioral Science	3		KSU ECO 201 (S&B 1)
		15		

16 – 29 Credit Hours

KCTCS Course	Category	Credits	Semester/ Completed	Notes/Action Steps
ENG 102 Writing II	Written Comm	3		KSU ENG 102
MAT 155 Trigonometry	Quantitative Reasoning	3		
CHE 170/175 General College Chemistry I/Lab	Natural Science	5		KSU CHE 101 & 110 (both lecture and lab)
CIT 105 Intro to Computers	Digital Literacy	3		Introduction to Computers or Test Out with IC3 full certification or CIT STEP exam
		14		

30 – 47 Credit Hours

KCTCS Course	Category	Credits	Semester/ Completed	Notes/Action Steps
MAT 175 Calculus I	Quantitative Reasoning	5		KSU MAT 131
STA 220 Statistics	Quantitative Reasoning OR Natural Sci.	3		KSU MAT 200
PSY 110 General Psychology OR SOC 101 Intro to Sociology	Social/Behavioral Science	3		KSU PSY 200 (S&B 2)
POL 235 World Politics	Gen Ed	3		KSU POS 361 (Global & civic)
ART 100, MUS 100, THA 101, or ENG 161	Gen Ed	3		KSU Art block
		17		

48 - 62 Credit Hours

KCTCS Course	Category	Credits	Semester/ Completed	Notes/Action Steps
MAT 185 Calculus II	Quantitative Reasoning	5		KSU MAT 132
PHY 231/241 General University Physics I/Lab	Natural Science w/lab	5		KSU PHY 211
Heritage	Elective	3		Choose One Heritage Course (KSU Humanities HIS 108)
CIT 120 Computational Thinking	Elective	3		KSU COS 107
		16		

Over 60 Hours (if needed)

KCTCS Course	Category	Credits	Semester/ Completed	Notes/Action Steps
Total Credits		62		

Fully General Education Certified

Students who have successfully completed a general education program of 33 credit hours (a minimum of 15 hours completed with JCTC) will be “fully general education certified”. Students may then transfer these hours altogether as a block. Students must fulfill any additional pre-major requirements of the receiving institution that have not been satisfied through the courses included in the full General Education certification.

General Education Category Certification

Students who have successfully completed only some categories in the 33-credit hour component will be certified for those categories they complete. For example, a student who has completed the six-hour Arts & Humanities requirement of the AA/AS degree may be certified as having met the General Education Transfer Policy’s six-hour Arts & Humanities requirement. Students with “category” certification and/or additional coursework must fulfill the remaining general education requirements for the bachelor degree program.

If you have questions about the General Education Transfer Policy, please contact your college’s Transfer Contact. Completed general education certifications are automatically printed on the official transcript. If the requirements for certification have been completed, but the appropriate certification is not printed on the transcript, contact the college registrar’s office to request the appropriate certification be added to your transcript and request an additional transcript including the certification.

General Education Categories Needed for Certification (33 credit hours)

- ___ Written Communication (6)
- ___ Oral Communication (3)
- ___ Social and Behavioral Sciences (6)
- ___ Arts and Humanities (3)
- ___ Heritage (3)
- ___ Natural Science (5)
- ___ Natural Science Lab (1)
- ___ Quantitative Reasoning (6)

General Transfer Requirements

Prospective transfer students will contact the office of Registrar at Kentucky State University to obtain information that will be helpful for their transfer, such as the process for applying to the institution, relevant deadlines, and scholarship information.

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Degree Requirements:

- ___ Written Communication (6)
- ___ Oral Communication (3)
- ___ Social and Behavioral Sciences (6)
- ___ Arts and Humanities (3)
- ___ Heritage (3)
- ___ Natural Science (5)

- ____ Natural Science Lab (1)
- ____ Quantitative Reasoning (6)
- ____ Additional Gen Eds Beyond Core (6)
- ____ Elective Credits (21)

Degree Checklist:

- ____ GPA is 2.0 or higher
- ____ Student has completed the minimum of 60 credit hours for the degree
- ____ Student has completed 25% of the curriculum for their major through Jefferson
- ____ Student has completed Digital Literacy requirement (CIT 105 or test out)
- ____ Student has completed a First-Year Experience course (FYE 105)

Applying for Graduation

Once student has completed the Degree Requirements and Degree Checklist section, you can apply for graduation.

- ____ Completed Degree Requirements
- ____ Completed Degree Checklist

How to apply for graduation:

Go to jctc.me/graduation and complete online application.

Be mindful that the deadline dates to apply for each semester change every year.

Career Information

Kentucky State University [Careers and Internships](#)

Insert Kentucky State University Career information here – by KSU

Kentucky State University Career and Professional Development Center Website:

<https://www.kysu.edu/student-success-and-retention/professional-development-and-career-services/index.php>

O*NET Online Kentucky Wages: <https://www.onetonline.org/link/localwages/17-2112.03?st=KY>