



## TRANSFER PATHWAY GUIDE 2019-2020

### Associate in Science to UofL for Bachelor of Science in Mechanical Engineering

#### **Overview**

Completion of the following curriculum will satisfy the requirements for the Associates in Science at the Kentucky Community and Technical College System and leads to the Bachelor of Science in Engineering at the University of Louisville.

#### **Admission Requirements**

Transfer students must have a minimum of 24 transferable credit hours and a minimum GPA of 2.8. Students must have a minimum grade of B- in the following courses: Calculus I (MAT 175) and College Chemistry I (CHE 170). All other grades must have a C- minimum in order to count towards the degree requirements.

#### **Degree Requirements**

The baccalaureate degree in science is the undergraduate degree offered by the university. It is awarded to students who have completed both university-wide requirements and the requirements of the selected degree program. The following university-wide requirements apply to all baccalaureate degrees. The student must complete all Cardinal Core requirements, complete all required courses and program requirements listed in this form, have a cumulative GPA of at least a 2.25, or higher, complete 120 hours applicable to this program, and complete at least 60 hours at an accredited 4-year institution. Please visit <https://catalog.louisville.edu/undergraduate/majors/mechanical-engineering-bs/> for a list of all degree requirements.

#### **General Transfer Requirements**

Please reference the following links for information about applying, scholarship, and speaking with an admission counselor.

- Application Process: <http://louisville.edu/admissions/apply/transfer/admissions>
- Scholarship: <http://louisville.edu/admissions/apply/transfer/cost-of-attendance/kctcs>
- Admissions Counselor: <https://booknow.appointment-plus.com/9qq1pbnv/>

All transfers students are required to meet with an academic advisor prior to registering for classes. During your advising appointment, your academic advisor will assess your transfer credit and provide a timeline to degree.

The J.B. School of Engineering has the following deadlines for their application:

Fall – March 1<sup>st</sup>

Spring – October 1<sup>st</sup>

Summer – March 1<sup>st</sup>

**KCTCS Associate in Science TO the University of Louisville Bachelor of Science in Mechanical Engineering CHECKLIST**

**Kentucky Community and Technical College System**

**Category 1: KCTCS General Education Core Requirements (33 hours)**

<b>KCTCS Course</b>	<b>Course or Category</b>	<b>Credits</b>	<b>UofL Course</b>	<b>Completed</b>
ENG 101	Writing 1	3	ENGL 101	
ENG 102	Writing II	3	ENGL 102	
COM 181	Oral Communications	3	COMM 111	
TBS XXX	Social & Behavioral Science*	3	SBS XXX	
TBS XXX	Social & Behavioral Science*	3	SBS XXX	
HIS XXX	Heritage*- recommend HIS 101, 102, 108 or 109	3	HIST XXX	
TBS XXX	Arts & Humanities*	3	A/H XXX	
PHY 231/241	General University Physics I & lab	5	PHYS 298/295	
CHE 170/175	General College Chemistry I & lab	5	CHEM 201/207	
MAT 175	Calculus I **	5	ENGR 101	
MAT 185	Calculus II	5	ENGR 102	
	<b>Subtotal General Education Core Courses</b>	<b>41</b>		

\*One of these courses must be selected from the KCTCS identified Cultural Studies course list, indicate by placing (CS) next to the course name in Category 1 or 2 table.

\*\* Students who do not test into MAT 175 must complete MAT 150 **AND** MAT 155 before being able to take MAT 175. Students may also complete MAT 171 according to placement.

**Category 2: KCTCS Associate in Science Requirements (6 hours)**

<b>KCTCS Course</b>	<b>Course or Category</b>	<b>Credits</b>	<b>UofL Course</b>	<b>Completed</b>
CHE 180	General Chemistry II	4	CHEM 202	
MAT 275	Calculus III	4	ENGR 201	
	<b>Subtotal AA/AS Requirement Courses</b>	<b>8</b>		

**Category 3: KCTCS Electives (21 hours)**

<b>KCTCS Course</b>	<b>Course or Category</b>	<b>Credits</b>	<b>UofL Course</b>	<b>Completed</b>
CIT 105	Digital Literacy or IC3 test out	0-3	Elective XXX	
FYE 105	First-Year Experience	3	GEN 100	
MAT 285	Differential Equations	3	ENGR 205	
PHY 232	General University Physics II	4	PHYS 299	
TBS XXX	Any College Level Course	1-3	TBD XXX	
	<b>Subtotal Elective Courses</b>	<b>11-15</b>		
	<b>TOTAL Associate Degree Hours</b>	<b>60-63</b>		

## University of Louisville

### Major Requirements for Bachelor of Science in Engineering

UofL Course	Course	Credits	KCTCS Course	Taken at KCTCS
CECS 130	Intro to Programming Language	3		
CEE 205	Mechanics I: Statics	3		
CHE 253	Materials Science	3		
CHEM 202	General Chemistry II	3		
ECE 252	Introduction to Electrical Engineering	3		
ENGR 110	Engineering Methods, Tools, & Practice I	2		
ENGR 111	Engineering Methods, Tools, & Practice II	2		
ENGR 151	Engineering Graphics Technology	1		
ENGR 307	Numerical Methods for Engineering	2		
IE 370	Engineering Economic Analysis	3		
ME 206	Mechanics II: Dynamics	3		
ME 251	Thermodynamics I	3		
ME 288	Mechanical Engineering Co-op Ed. Sem.	0		
ME 289	Mechanical Engineering Co-Op I	1		
ME 310	Thermodynamics II	3		
ME 311	Fluid Mechanics I	3		
ME 312	Fluid Mechanics Laboratory	1		
ME 323	Mechanics of Materials	3		
ME 324	Mechanics of Materials Laboratory	1		
ME 380	Computer Aided Design	2		
ME 381	Intro to Manufacturing	2		
ME 389	Mechanical Engineering Co-Op II	1		
ME 401	Fluid Mechanics II	3		
ME 414	Mechanical Measurements	3		
ME 415	Senior Mechanical Engineering Lab	1		
ME 422	Machine Design I	3		
ME 435	System Dynamics	3		
ME 440	Heat Transfer	3		
ME 442	Machine Design II	3		
ME 489	Mechanical Engineering Co-Op III	1		
ME 497	ME Capstone Design Project	3		
TBD XXX	Mechanical Engineering Elective (500+)	6		
<b>Subtotal {Institution} Credit Hours</b>		<b>77</b>		
<b>Total Baccalaureate Degree Credit Hours</b>		<b>125</b>		

Updated: 7/22/2019