



## TRANSFER PATHWAY GUIDE 2020-2021

Associate in Science to Bachelor of Science in Materials Engineering

### **Overview**

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

### **Admission Requirements**

Engineering Standing upon transfer is available to students who maintain an overall and premajor GPA of 2.5. Premajor courses considered in the standing for Materials Engineering must be successfully completed with a C or higher and include the following or their equivalencies: CHE 105, CHE 107, CHE 111, CHE 113, CIS/WRD 110, MA 113, MA 114, MA 213, PHY 231 and PHY 241. Additionally, students need to complete MSE 201 with a grade of C or better.

KCTCS students planning to transfer to the University of Kentucky should work closely with a UK Transfer Advisor each semester to ensure that both KCTCS and UK degree requirements are met.

### **Degree Requirements**

Students can transfer a total of 67 credit hours from a two-year institution. Additionally, 30 of the final 36 credit hours earned toward a UK degree must be completed at UK. To graduate, students must maintain a 2.0 cumulative GPA and complete 120 total credit hours.

### **General Transfer Requirements**

All prospective transfer students are encouraged to receive advising from the University of Kentucky Transfer Center. Appointments are offered online and in-person, and can be scheduled online at <https://www.uky.edu/admission/transfer-advising>.

Additionally, we recommend reviewing the transfer admission requirements (<https://www.uky.edu/admission/transfer-requirements>) and the Frequently Asked Questions (<https://www.uky.edu/admission/transfer/frequently-asked-questions>) on our website: <https://www.uky.edu/admission/transfer>.

For more information, please contact the UK Transfer Center by email at [UKTransfer@uky.edu](mailto:UKTransfer@uky.edu), by phone at 859-257-2000, or in-person in Room 100 of the Funkhouser Building on UK's campus.

# KCTCS ASSOCIATE IN SCIENCE TO UNIVERSITY OF KENTUCKY BACHELOR OF SCIENCE IN MATERIALS ENGINEERING CHECKLIST

## Kentucky Community and Technical College System

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

KCTCS Course	Course or Category	Credits	UK Course	Completed
ENG 101	Writing I (WC)	3	ENG 101	
ENG 102	Writing II (WC)	3	ENG 102	
TBS XXX	Oral Communication (OC)	3	TBD XXX	
TBS XXX	Heritage (AH)	3	TBD XXX	
TBS XXX	Humanities (AH)	3	TBD XXX	
TBS XXX	Social and Behavioral Science (SB)	3	TBD XXX	
TBS XXX	Social and Behavioral Science (SB)	3	TBD XXX	
CHE 170/175	General College Chemistry I	5	CHE 105/111	
CHE 180/185	General College Chemistry II	5	CHE 107/113	
MAT 174/175	Calculus I	4-5	MA 113	
MAT 184/185	Calculus II	4-5	MA 114	
	<b>Subtotal General Education Core</b>	<b>38-40</b>		

TBS XXX means to be selected by KCTCS student.

TBD XXX means to be determined by University of Kentucky based on course selected.

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.

### Category 2: KCTCS AS Requirements (6 hours)

KCTCS Course	Course or Category	Credits	UK Course	Completed
PHY 231 & 241	University Physics I	5	PHY 231 & 241	
PHY 232	University Physics II	4	PHY 232	
	<b>Subtotal AS Requirement Courses</b>	<b>9</b>		

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

KCTCS Course	Course or Category	Credits	UK Course	Completed
	Digital Literacy**	0-3		
	First-Year Experience	0-3		
CS 115	Introduction to Computer Programming	3	CS 115	
MAT 275	Calculus III	4	MA 213	
MAT 285	Calculus IV	3	MA 214	
CHE 270	Organic Chemistry I	3	CHE 230	
	<b>Subtotal Elective Courses</b>	<b>13-19</b>		
	<b>TOTAL Associate Degree Hours</b>	<b>60-66</b>		

\*Students should work with their KCTCS academic advisors to ensure they earn a total of 60 credit hours from KCTCS to graduate with their AS.

\*\*It's recommended that students take the IC3 exam to bypass the Digital Literacy exam.



## Sample Course Sequence: KCTCS Associate in Science to UK Bachelor of Science in Materials Engineering

KCTCS Fall Semester 1	
ENG 101	3
First-Year Course	3
CHE 170	4
MAT 174/175	4-5
CS 115	3
<b>Total</b>	<b>17-18</b>

KCTCS Spring Semester 1	
ENG 102	3
CHE 180	4
MAT 184/185	4-5
Heritage	3
<b>Total</b>	<b>14-15</b>

KCTCS Summer Semester 1	

KCTCS Fall Semester 2	
PHY 231 & 241	5
MAT 275	3
CHE 270	3
SBS	3
<b>Total</b>	<b>14</b>

KCTCS Spring Semester 2	
MAT 285	3
PHY 232 & 242	5
Oral Comm.	3
SBS	3
Humanities	3
<b>Total</b>	<b>17</b>

KCTCS Summer Semester 2	

UK Fall Semester 3	
EGR 215	3
MSE 202	1
EM 221	3
STA 381	3
MSE 201	3
<b>Total</b>	<b>13</b>

UK Spring Semester 3	
EM 302	3
MSE 351	3
MSE 301	3
EE 305	3
PHY 361	3
<b>Total</b>	<b>15</b>

UK Fall Semester 4	
MSE 401G	3
MSE 404G	3
MSE Tech. Elective*	3
<b>Total</b>	<b>9</b>

UK Spring Semester 4	
MSE 402G	3
MSE 403G	3
MSE 407	3
MSE 535	3
Technical Elective*	3
<b>Total</b>	<b>15</b>

UK Fall Semester 5	
MSE 408	3
MSE 436	3
MSE 585	3
CME 200	3
<b>Total</b>	<b>12</b>

UK Spring Semester 5	
MSE 480	3
MSE 538	3
<b>Total</b>	<b>6</b>

\*These courses will be selected in conjunction with a UK academic advisor.