

**ASSOCIATE IN SCIENCE AND BS IN MECHANICAL ENGINEERING**

Completion of the following curriculum will satisfy both the requirements for an Associate in Science at KCTCS as well as the requirements for the University of Kentucky's bachelor's degree in Mechanical Engineering.

Engineering Standing upon transfer is available to students who maintain an overall and pre-major GPA of 2.5. Pre-major courses considered in the standing for Mechanical Engineering must earn at least a C or higher and include: EGR 215 (or equivalent), EGR 102 (or equivalent), MA 113 (or equivalent), MA 114 (or equivalent), MA 213 (or equivalent), CHE 105 (or equivalent), PHY 231/214, PHY 232/242, CIS/WRD 111 (or equivalent), and EM 221.

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



<b>1<sup>st</sup> Semester</b>	
ENG 101: Writing I (3)	
CHE 170: General College Chemistry I (4)	
MA 113, MAT 174, or MAT 175: Calculus I (4-5)	
CS 115 or CIT 144 or CIT 149 (3)	
Elective course (3)	
<b>Semester Hours</b>	<b>16-17</b>

<b>2<sup>nd</sup> Semester</b>	
ENG 102: Writing II (3)	
MA 114, MAT 184, or MAT 185: Calculus II (4-5)	
CHE 180 General College Chemistry II (4)	
*Social and Behavioral Science course (3)	
<b>Semester Hours</b>	<b>14-15</b>

<b>First Summer Option</b>	
<b>Semester Hours</b>	

<b>3<sup>rd</sup> Semester</b>	
PHY 231 + 241: University Physics I (5)	
MA 213, MAT 213, or MAT 275: Calculus III (4)	
*Humanities course (3)	
*Heritage course (3)	
<b>Semester Hours</b>	<b>15</b>

<b>4<sup>th</sup> Semester</b>	
MA 214, MAT 214, or MAT 285: Calculus IV/Differential Equations (3)	
PHY 232 + 242: University Physics II (5)	
Elective course (3)	
Oral Communication course (3)	
*Social and Behavioral Science course (3)	
<b>Semester Hours</b>	<b>17</b>

Total Credit Hours: 62-64

**Notes:** \*One course must satisfy the Cultural Studies requirement.

The student must test out of the computer literacy requirement so that CS 115, CIT 144, or 149 can be used to satisfy the Bachelor's Degree requirement.



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COURSES ONLY**

<b>Second Summer Option</b>	
ME 220 (3) or EM 221 (3)	
EE 305 (3) and EM 313 (3)	
<b>Semester Hours</b>	<b>9</b>

<b>5<sup>th</sup> Semester</b>	
EGR 215 (3)	
ME 220 or EM 221 (3)	
ME 205 or ME 251 (3)	
EE 305 (3)	
WRD 204 (3)	
<b>Semester Hours</b>	<b>15</b>

<b>6<sup>th</sup> Semester</b>	
EM 302 (3)	
EM 313 (3)	
ME 330 (3)	
ME 205 or ME 251 (3)	
ME 340 (3)	
<b>Semester Hours</b>	<b>15</b>

<b>Third Summer Option</b>	
<b>Semester Hours</b>	

<b>7<sup>th</sup> Semester</b>	
ME 310 (3)	
Math Elective (3)	
ME 325 (3)	
ME 501 (3)	
ME 344 (3)	
<b>Semester Hours</b>	<b>15</b>

<b>8<sup>th</sup> Semester</b>	
ME 411 (3)	
ME 440 (3)	
Technical Elective (3)	
Technical Elective (3)	
ME 321 (3)	
<b>Semester Hours</b>	<b>15</b>

<b>9<sup>th</sup> Semester</b>	
ME 412 (3)	
ME 311 (3)	
Technical Elective (3)	
Support Elective (3)	
<b>Semester Hours</b>	<b>12</b>

<b>10<sup>th</sup> Semester</b>	
<b>Semester Hours</b>	

Total Credit Hours: 81