# TRANSFER PATHWAY GUIDE
# 2025-2026

Associate in Applied Science in Manufacturing Engineering Technology (MET) to Bachelor of Science in Lean Systems Engineering Technology (LST)

## *Overview*

Completion of the following curriculum will satisfy the requirements for an Associate in Applied Science in Manufacturing Engineering Technology and leads to the Bachelor of Science degree in Lean Systems Engineering Technology at the University of Kentucky.

## *Admission Requirements*

To be accepted into this feeder-completer program, transfer students must have a minimum cumulative college GPA of 2.0 in addition to a "C" or better in all technical core classes.
Students must have satisfactorily completed all requirements for the Associate in Applied Science in Manufacturing Engineering Technology as well as necessary pre-requisites for the LST program at The University of Kentucky (UK).

## *Degree Requirements*

Upon transfer into the Lean Systems Engineering Technology program, 30 of the final 36 credit hours earned toward a UK degree must be completed at UK. To graduate, students must adhere to the program and GPA requirements of the College of Engineering's Admission, Retention, and Completion policy as described in the UK Bulletin.

In order to meet graduation criteria at UK, students must complete all required UK Core requirements and the University Foreign Language as part of their degree plan. Students must earn a minimum of 127 hours to graduate.

## *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://admission.uky.edu/transfer/advising

Additionally, we recommend reviewing **UK transfer admission requirements** https://admission.uky.edu/transfer/requirements and the **Frequently Asked Questions** https://admission.uky.edu/transfer/frequently-asked-questions and on our **KCTCS to UK transfer website:** https://admission.uky.edu/kctcs-transfer

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

# AAS in Manufacturing Engineering Technology (MET) to University of Kentucky Bachelor of Science in Lean Systems Engineering Technology

## Kentucky Community and Technical College System

**Admissions Requirements for LST**

*Students may transfer to UK upon successful completion of an Associate in Applied Science in Manufacturing Engineering Technology. The AAS degree focuses heavily on important concepts needed to be successful in upper division coursework at the University of Kentucky; students who do not complete an AS or AA must meet general education requirements in order to complete the program at UK. Students are encouraged with work closely with their advisors to plan for these courses.

**Below are the preferred General Education Core options within the MET program. If you take general education courses that are different than those below, you will need to consult with the LST program advisor to learn which courses may still be needed.

**Category 1: AAS General Education Requirements (18 hours)**

| KCTCS Course | Course or Category | Credits | UK Course | Completed |
|---|---|---|---|---|
| ENG 101 | Writing I (WC) | 3 | ENG 101 | |
| TBS XXX | Heritage (AH) **or** Humanities (AH) | 3 | TBD XXX | |
| SOC 101 or PSY 110 | Social and Behavioral Science (SB) | 3 | TBD XXX | |
| PHY 151 | Introduction to Physics (NS) | 3 | PHY 151 | |
| MAT 150 | *College Algebra | 3 | MA 109 | |
| STA 220 | **Statistics (QR) | 3 | STA 2-- | |
| | **Subtotal General Education Core** | **18-23** | | |

*Student will need to complete one of the following math pathways prior to graduation from UK:

a. MAT 150 (College Algebra) + MAT 155 (Trigonometry) + MAT 170 (Brief Calculus with Applications) through KCTCS

b. MAT 126 (Technical Algebra & Trig.) through KCTCS + MA 123 (Elementary Calculus) through UK

**Students in the MET program have a variety of options to choose from in the QR category. Depending on which option is selected, total General Education Requirements in this category will range from 18-23 hours.

**Category 2: MET- AAS Degree Requirements**

| KCTCS Course | Course or Category | Credits | UK Course | Completed |
|---|---|---|---|---|
| TBS XXX | AAS Technical Core | 31 | | |
| TBS XXX | AAS Electives | 11 | | |
| | **Subtotal AAS Technical Requirements** | 42 | | |
| | **Total AAS requirements** | 60 | | |

TBS XXX means to be selected by KCTCS student.

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

**Category 3: Additional Gen. Ed. Courses (required to graduate from UK- can be taken at KCTCS or UK)**

| KCTCS Course | Course or Category | Credits | UK Course | Completed |
|---|---|---|---|---|
| ENG 102 | Writing II (WC) | 3 | ENG 102 | |
| TBS XXX | Oral Communication (OC) | 3 | TBD XXX | |
| TBS XXX | *Heritage (AH) **or** *Humanities (AH) | 3 | TBD XXX | |
| MAT 155 | ^Trigonometry (QR) | 3 | MA 112 | |
| MAT 170 | ^Brief Calculus with Applications (QR) | 3 | MA 123 | |
| TBS XXX | Natural Science (NS) with Lab | 4 | TBD XXX | |
| TBS XXX | **Social and Behavioral Science (SB) | 3 | TBD XXX | |
| | **Subtotal General Education Core** | 22 | | |

*Students should complete whichever course they did not previously complete for the MET program. Students will need 1 Humanities and 1 Heritage course.

**Students should choose from a discipline of SB different than the first taken for the MET AAS degree. For example, if you take SOC 101, you should choose any SB course outside of the SOC category.

***If these additional general education courses are not completed prior to transfer, additional general education courses will be required at UK to fulfil UK Core requirements.

^Student will need to complete one of the following math pathways prior to graduation from UK:

a. MAT 150 (College Algebra) + MAT 155 (Trigonometry) + MAT 170 (Brief Calculus with Applications) through KCTCS

b. MAT 126 (Technical Algebra & Trig.) through KCTCS + MA 123 (Elementary Calculus) through UK

## University of Kentucky

**Major Requirements for the Bachelor of Science in Lean Systems Engineering Technology**

| UK Course | Course | Credits | KCTCS Course | Taken at KCTCS |
|---|---|---|---|---|
| LST 301 | Introduction to Just-in-Time Operations | 3 | | |
| LST 302 | Manufacturing Simulation & Material and Information Flow Charts | 4 | | |
| LST 303 | Introduction to Abnormality Management (Jidoka) | 3 | | |
| LST 304 | Introduction to Productivity Improvement | 3 | | |
| LST 305 | System of Quality Assurance & Built-in-Quality | 4 | | |
| LST 306 | Kaizen of Standardized Work | 4 | | |
| LST 400 | Engineering Economics | 2 | | |
| LST 403 | Production Instruction, Small Lot Production & Change over Processes | 4 | | |
| LST 404 | Logistics | 3 | | |
| LST 405 | Managing the Shop Floor and Leading kaizen | 4 | | |
| LST 406 | Problem Solving II | 4 | | |
| LST 409 | Capstone I | 3 | | |
| LST 410 | Capstone II | 3 | | |
| WRD 204 | Technical Writing | 3 | | |
| TBS XXX | *Technical Elective | 6 | | |
| UK Core | **Students will need to complete any remaining UK Core that was not previously completed through KCTCS | TBD | | |
| **Subtotal UK Credit Hours** | | **53** | | |
| **Total Baccalaureate Degree Credit Hours** | | **135-140** | | |

*Technical Electives must be taken at UK and should be chosen from courses at or above the 300+ level with the help of their UK advisor.

**Student should meet with a UK advisor to determine which remaining general education courses may be needed.