

TRANSFER GUIDE

Associate of Engineering Science (AES) Curriculum transferring into BS Mechatronics & Robotics Engineering

**Kaskaskia College Courses
AES Curriculum - 64 hours**

| KC Course | Course Name | Credits Hours |
|-----------|-------------------------------------|---------------|
| CHEM-111 | General Chem I (Inorganic Chem I) | 5 |
| ENGL-101 | English Composition | 3 |
| MATH-166 | Calculus and Analytical Geometry I | 5 |
| ENGR-103 | Engineering Graphics and CAD | 3 |
| PHLE 110 | Logic | 3 |
| MATH-267 | Calculus and Analytical Geometry II | 4 |
| PHYS-201 | University Physics I | 5 |
| ENGL-102 | English Composition | 3 |
| ENGR-203 | Statics | 3 |

| KC Course | Course Name | Credits Hours |
|--------------------------------------|--|---------------|
| PHYS-202 | University Physics II | 5 |
| MATH-268 | Calculus and Analytical Geometry III | 4 |
| ENGR-201 | Computer Programming for Engineers | 3 |
| ECON 205 | Principles of Macroeconomics | 3 |
| MATH-269 | Differential Equations | 3 |
| ELECTIVE | Social Science Elective | 3 |
| COMM-103 OR COMM-204 ¹ | Fundamentals of Speech Communication OR Interpersonal Communication | 3 |
| PHLE-120 OR PHLE-201 ² | Ethics OR Professional Ethics for Engineers | 3 |
| ELECTIVE | ENGR Elective | 3-4 |

**SIUE Courses
BS Mechatronics & Robotics Engineering - 72-75 hours**

| SIUE Course | Course Name | Credits Hours |
|-------------|-------------------------------------|---------------|
| MRE 320 | Sensors and Actuators | 3 |
| MRE 358 | Introduction to Mechatronics | 3 |
| MRE 380 | Design of Machine Elements | 3 |
| MRE 454 | Robotics, Dynamics & Controls | 3 |
| MRE 477 | Comp. Integ. Manufac. Systems | 3 |
| MRE 480 | Design in Mechatronic & Robotics I | 3 |
| MRE 481 | Design in Mechatronic & Robotics II | 3 |
| MRE XXX | Technical Elective I | 3 |
| MRE XXX | Technical Elective II | 3 |
| ME 354 | Numerical Simulation | 3 |
| ME 356 | Dynamic Systems Modeling | 3 |
| ME 450 | Automatic Control | 3 |

| SIUE Course | Course Name | Credits Hours |
|----------------------|--------------------------------|---------------|
| ECE 210 | Circuit Analysis I | 3 |
| ECE 211 ³ | Circuit Analysis II | 3 |
| ECE 282 | Digital Systems Design | 3 |
| ECE 381 | Microcontroller | 3 |
| CE 242 ³ | Mechanics of Solids | 3 |
| MATH 321 | Linear Algebra | 3 |
| IE 345 | Engineering Economics Analysis | 3 |
| STAT 380 | Stats for Application | 3 |
| BFPA | Breadth Fine & Performing Arts | 3 |
| BLS | Breadth Life Science | 3 |
| EH | Health Experience | 3 |
| IS | Interdisciplinary Studies | 3 |

Total Hours to Bachelor Degree: 136

Note: You are encouraged to use this transfer guide when planning your progress towards degree completion. Following a transfer guide does not guarantee admission into the listed program. Information is attempted to be kept current; however, any curriculum changes reflected in the Catalog override the information on this guide. Contact your Academic Advisor for assistance in interpreting this guide.

¹COMM 204 is preferred by SIUE.

²PHLE 201 is required by SIUE. If not completed at KC it must be taken at SIUE.

³ECE 211 and CE 242 courses should be completed in summer semester at SIUE.

*Students must complete 50% or more of the degree requirements at SIUE.

Contact us for more information:

Kaskaskia College
Staci Palm
Dean of Enrollment Services
618-545-3048
spalm@kaskaskia.edu

Southern Illinois University Edwardsville
Transfer Center
618-650-2133
transfercredit@siue.edu

SIUE website

SIUE School of Engineering Transfer Credit Advisory Notes:

NOTE: Student must apply for admission to upper-division classes before starting their junior year at SIUE.

The form for 'APPLICATION FOR ADMISSION TO UPPER-DIVISION' must be submitted by the deadline to the academic advisor in the School of Engineering at SIUE.

Students must earn 60 hours from a senior institution for graduation requirements. If students take all SIUE junior and senior level courses, as stated above, at SIUE, they will meet this requirement. Please note: deviating from the planned schedule above may jeopardize this requirement.

SIUE may accept transfer "D" grades, however, in the School of Engineering, a grade of "C" or better is required in all chemistry, computer science, mathematics, physics, and engineering courses applied to major or minor requirements. A course that transfers as 1XX, 2XX, 3XX or TRF 1XX, TRF 2XX, TRF 3XX may require a course description and/or syllabus for further evaluation.

A course that satisfies both the ERGU and EREG attribute requirement will only be counted as one attribute and not both.

Interdisciplinary Studies (IS) Courses must be taken at the junior/senior level class standing. This requirement is not waived with completion of transfer associate degree or IAI-GECC. It is recommended that students choose a course to meet this general education requirement AND Global Culture Race and Equity Experience (EREG). Please see the SIUE advisor for a current list of course options.

3/16/2026