

## 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	Chemistry I (Inorganic Chemistry)	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 <sup>1</sup>	Fundamentals of Speech Communication OR Interpersonal Communication	3
PHLE-120 OR PHLE-201 <sup>2</sup>	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 <sup>3</sup>	Circuit Analysis II	3
ECE 282	Digital Systems Design	3
ECE 381	Microcontroller	3
CE 242 <sup>3</sup>	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.

<sup>1</sup>COMM 204 is preferred by SIUE.

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

<sup>3</sup>ECE 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](mailto:spalm@kaskaskia.edu)

**Southern Illinois University Edwardsville**

Transfer Center  
618-650-2133  
[transfercredit@siue.edu](mailto: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.

Mar-25