

**SOUTHERN ILLINOIS UNIVERSITY
EDWARDSVILLE**

Degree Plan - Industrial Engineering

Kaskaskia College

Associate in Engineering Degree

Fall Year 1

KC Course		Hours
CHEM 111	Chemistry I (Inorganic Chemistry)	5
ENGL 101	Composition I	3
MATH 166	Analytical Geometry & Calculus I	5
ENGR 103	Engineering Graphics & CAD	3
PHLE 110 ¹	Logic	3
Total		19

Spring Year 1

KC Course		Hours
MATH 267	Analytical Geometry & Calculus II	4
PHYS 201	University Physics I	5
ENGL 102	Composition II	3
ENGR 203	Statics	3
COMM 204	Interpersonal Communication	3
Total		18

Fall Year 2

KC Course		Hours
PHYS 202	University Physics II	5
MATH 268	Analytical Geometry & Calculus III	4
ENGR 201	Computer Programming for Engineers	3
ENGR 204	Dynamics	3
ECON 205	Principles of Macroeconomics	3
Total		18

Spring Year 2

KC Course		Hours
MATH 269	Differential Equations	3
ENGR 205	Mechanics of Materials	3
ENGR 210	Electrical Circuits	4
ANTH 101	Cultural Anthropology	3
PHLE 201	Professional Ethics for Engineers	3
Total		16

Associate in Engineering Degree Total 71

¹Required for AES degree but is not needed for Industrial Engineering at SIUE.

Students must complete 50% of SIUE degree requirements at SIUE.

Southern Illinois University Edwardsville

Bachelor of Science Degree

Fall Year 3

SIUE Course		Hours
IE 335	Intro to Infor. Proc. Systems	3
IE 345	Engineering Economic Ana.	3
STAT 380	Stats for Application	3
IE 370	Manufacturing	3
IE 375	3-D Modeling Product Design	3
BFPA	Fine Arts Breadth	3
Total		18

Spring Year 3

SIUE Course		Hours
IE 415	Operations Research-Det. Models	3
IE 451	Methods Design & Work Areas	3
IE 465	Design & Control of Quality Systems	3
IE 470	Manufacturing Systems	3
BLS	Breadth Life Science	3
EH	Health Experience	0-2
Total		15

Fall Year 4

SIUE Course		Hours
IE 468	Operations Research Simulation	3
IE 476	Plant Wide Process Control	3
IE 483	Production Plan & Control	3
IE 484	Facilities Planning	3
IE XXX	IE Elective I	3
Total		15

Spring Year 4

SIUE Course		Hours
IE 490	Integrated Engineering Design	3
IE XXX	IE Elective II	3
IE XXX	IE Elective III	3
IS	Interdisciplinary Studies	3
Total		12

Bachelor of Science Degree Total 131

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School of Engineering Transfer Credit Advisory Notes:

NOTE: For students majoring in Civil, Industrial, Mechanical or Mechatronics & Robotics Engineering they 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.