

Pathway - Mechanical Engineering

Lewis and Clark Community College Associate Degree AES Fall Year 1

LCCC Course		Hours
ENGL 131	First Year English I	3
CHEM 141	General Chemistry I	5
CHEM 121	Recitation	1
SPCH 145	Public & Private Communication	3
MATH 171	Calculus and Analytic Geo	5
Total		17

Spring Year 1

LCCC Course		Hours
ENGL 132	First Year English II	3
MATH 172	Calculus and Analytic Geo II	5
PHYS 141	General Physics I	5
ECON 151	Macroeconomics	3
Total		16

Fall Year 2

LCCC Course		Hours
MATH 271	Calculus and Analytic Geo III	4
PHYS 142	General Physics II	5
DRFT 131 or 140	Gen. Drafting or Comp. Drafting	4
PHYS 241	Statics	3
Total		16

Spring Year 2

LCCC Course		Hours
PHYS 242	Dynamics	3
MATH 272	Differential Equations	3
CIS 235	C++ Programming Language	3
IAI Fine Arts	Fine Arts	3
PHYS 210	Circuit Analysis	3
Total		15

Associate in Engineering Total 64

¹Students may take PHYS 245 in the summer at LCCC if offered.

If 245 is not offered, students will take CE 242 in the summer at SIUE.

²IE 106 may no longer be required if AES is earned.
More details coming.

Students must complete 50% or more of SIUE degree requirements at SIUE (120+ hours required for graduation).

Southern Illinois University Edwardsville Bachelor of Science Degree Summer Year 3

SIUE Course		Hours
¹ CE 242	Mechanics of Solids	3
Total		3

Fall Year 3

SIUE Course		Hours
ME 310	Thermodynamics	3
ME 350	Mechanisms	3
ME 370	Materials Engineering	3
STAT 380	Statistics for Application	3
ME 354	Numerical Simulation	1
EH	Health Experience	1
² IE 106	² Engineering Problem Solving	3
Total		17

Spring Year 3

SIUE Course		Hours
ME 312	Thermodynamics II	3
ME 315	Fluid Mechanics	3
ME 380	Design Machine Elements	3
ME 380L	Stress Laboratory	1
ME 356	Dynamics Systems Modeling	3
PHIL 323	Engineering Ethics	3
Total		16

SIUE Course Fall Year 4 Hours

ME 410	Heat Transfer	3
ME 410L	Thermal Fluid Laboratory	1
ME 482	Mech. Engr. Design I	2
ME XXX	ME Elective I	3
IE 345	Engineering Economic Analysis	3
IS/EGC	Interdisciplinary Course	3
Total		15

Spring Year 4

SIUE Course		Hours
ME 484	Mechanical Eng. Design II	2
ME356L	Dynamical Systems Laboratory	1
ME XXX	Elective II	3
ME XXX	Elective III	3
ELE XXX	Engineering Elective	3
BLS	Breadth Life Science	3
Total		15

Bachelor of Science Total 130

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NOTE: Students must apply for admission to upper-division classes before starting the 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, stated above, at SIUE, they will meet this requirement. Please note: deviating from the planned schedule above may jeopardize this requirement.

School of Engineering Transfer Credit Advisory Note: *The University 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 in as 1xx, 2xx, 3xx or TRF 1xx; TRF 2xx; TRF 3xx may require a course description and/or syllabus for further evaluation.*