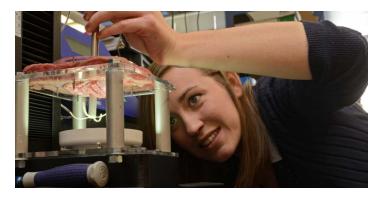
Hours

31

## **APPLIED ENGINEERING (BS)**



This program was approved for students entering the university in the Summer 2025-Spring 2026 catalog year. For more information about catalog year, go to Catalog Year Information (https://catalog.louisville.edu/undergraduate/university-wide-unit-specific-policies/catalog-year/).

## **Bachelor of Science in Applied Engineering**

Unit: Speed School of Engineering (SS) (https://engineering.louisville.edu/)
Department: Engineering Fundamentals (https://engineering.louisville.edu/academics/departments/fundamentals/)

Academic Plan Code(s): AENGBS (Belknap), AENGBS ECT (ECTC)

## **Program Information**

The Bachelor of Science in Applied Engineering combines the problemsolving skills of engineering with practical and hands-on skills for implementing solutions. Students will work in state-of-the-art laboratories, learning how to use, fix, and manage the kinds of equipment that industries rely on in the 21<sup>st</sup> century.

#### **Degree Summary**

Code Title	Hours
General Education Requirements (https://catalog.louisvi undergraduate/general-education-requirements/) <sup>1</sup>	lle.edu/ 31
(19 hours of general education requirements may be sati through coursework required by the degree program)	sfied
College / School Requirements <sup>1</sup>	33
Program / Major Requirements	68
Supporting Courses	12
Minimum Total Hours	122

Some courses required in this degree program satisfy multiple requirements. To complete the degree in the minimum number of hours listed, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements. See the Degree Requirements and/or Track tabs for specific coursework.

## **Incoming Student Admission Criteria**

<u>High School Curriculum Requirements:</u> All schools require graduation from an accredited high school and completion of the Kentucky Pre-

College Curriculum requirements. In addition, this program requires successful completion of either Calculus or Pre-calculus in high school.

#### Students with ACT / SAT Scores

 ACT composite and math scores of 25 OR SAT combined CR+M score of 1200 and math score of 590. A 3.0 GPA on a 4.0 scale

OR

Code

 ACT composite and math scores of 24 OR SAT combined CR+M score of 1160 and math score of 570. A 3.5 GPA on a 4.0 scale

### Students without ACT / SAT Scores

- · HS GPA of 3.0 (or better) on a 4.0 scale
- · Comprehensive transcript evaluation
- · Review of Student Resume

#### Transferring to Engineering BS degree programs

Students with 24 hours or more transferable semester hours will have a minimum college grade point average of 2.8 and at least B-minus grades in College Algebra (MATH 111 (https://catalog.louisville.edu/search/? P=MATH%20111) or equivalent).

## **General Education Requirements**

General Education Requirements (https://catalog.louisville.edu/

	eneral-education-requirements/)	JI
_	urses are required by the program and satisfy the al Education Requirement(s):	
ENGL 101	Introduction to College Writing - WC (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	
ENGL 102	Intermediate College Writing - WC (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	
COMM 111	Introduction to Public Speaking - OC (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	
ENGR 100	Differential Calculus for Engineering - QR (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	
PHYS 298	Introductory Mechanics, Heat and Sound - S (https://catalog.louisville.edu/undergraduate/ general-education-requirements/)	
PHYS 295	Introductory Laboratories I - SL (https:// catalog.louisville.edu/undergraduate/general- education-requirements/)	
CHEM 101	Chemistry and Contemporary Society - S (https://catalog.louisville.edu/undergraduate/general-	

All degrees require the completion of the University-wide General Education Program (link provided above). To complete the degree in the minimum number of hours listed on the Overview tab, some hours

education-requirements/)



from the General Education Requirements must be satisfied by courses defined by the unit and/or program.

## **College/School Requirements**

Code	Title	Hours		
Speed School AE Core <sup>1</sup>				
CHEM 101	Chemistry and Contemporary Society - S (https:/catalog.louisville.edu/undergraduate/general-education-requirements/)	// 3		
ENGL 101	Introduction to College Writing - WC (https://catalog.louisville.edu/undergraduate/general-education-requirements/) 1, 2	3		
ENGL 102	Intermediate College Writing - WC (https://catalog.louisville.edu/undergraduate/general-education-requirements/) 1, 2	3		
MATH 109	Elementary Statistics - QR (https:// catalog.louisville.edu/undergraduate/general- education-requirements/)	3		
COMM 111	Introduction to Public Speaking - OC (https://catalog.louisville.edu/undergraduate/generaleducation-requirements/) 1	3		
PHYS 295	Introductory Laboratories I - SL (https://catalog.louisville.edu/undergraduate/generaleducation-requirements/) 1	1		
PHYS 298	Introductory Mechanics, Heat and Sound - S (https://catalog.louisville.edu/undergraduate/general-education-requirements/) 1	4		
ENGR 110	Engineering Methods, Tools, and Practice I	2		
ENGR 111	Engineering Methods, Tools and Practice II	2		
ENGR 100	Differential Calculus for Engineering - QR (https:/catalog.louisville.edu/undergraduate/general-education-requirements/)	// 4		
ENGR 101	Engineering Analysis I - QR (https:// catalog.louisville.edu/undergraduate/general- education-requirements/)	4		
AE 499	Industry Experience Hours: Final Semester	1		
Minimum Total Hours 33				

## **Program / Major Requirements**

	Code	litle	Hours
	Applied Engineeri	ng Management Core	
	AE 111	Fundamentals of Safety	3
	ACCT 201	Principles of Financial Accounting	3
	ECON 201	Principles of Microeconomics - SB (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
	MGMT 301	Management and Organizational Behavior	3
	ISE 370	Engineering Economic Analysis	3
	AE 313	Quality & Lean Systems	3
	AE 411: Project M	anagement & Process Improvement	3
<b>Robotics &amp; Automation Systems Track Requirements</b>			
	CSE 130	Introduction to C and C++ Programming Languages	3
	AE 121	Computer-Aided Design	4
	AE 122	Electronic Systems	4

AE 123	Solid Modeling & Rapid Prototyping	4
AE 221	Semiconductor Electronics	4
AE 222	Power Conversion & Control	4
AE 223	Industrial Robotics I	4
AE 224	Digital Electronics	4
AE 321	Mobile Robotics I	4
AE 322	Programmable Logic Controllers	4
AE 323	Programmable Logic Controllers II	4
AE 431	Mobile Robotics II	4
Minimum Total Hours		68
Code	Title	Hours
Supporting Courses		
Applied Engi	neering Directed Electives	12

# **Applied Engineering Work Hours Tracking Courses**

Code	Title	Hours
AE 288	Industry Experience Seminar	0
AE 289	Industry Experience Hours Semester 1	0
AE 290	Industry Experience Hours Semester 2	0
AE 389	Industry Experience Hours Semester 3	0
AE 390	Industry Experience Hours Semester 4	0
AE 489	Industry Experience Hours Semester 5	0
AE 499	Industry Experience Hours: Final Semester	1

Candidates for the Bachelor of Science degree must be in Good Standing (university GPA  $\ge$  2.25) and must attain a grade point average of at least 2.25 for all courses used to satisfy degree requirements.

Code	Title	Hours
<b>Culminating Under</b>	ergraduate Experience (Graduation requirement)	
Requirement fulfil	lled by completing:	
AE 431	Mobile Robotics II	4

- 1 This course is a General Education requirement for the program; see louisville.edu/provost/ger/ (http://www.louisville.edu/provost/ger/) for the listing, by academic year, of AH/P1/P2/SB/SBH Electives which satisfy the University-wide General Education requirements. Note that the 12-hour total for the AH/P1/P2/SB/SBH electives assumes the use of double counting of P1/P2 with another category.
- Students completing ENGL 105 (https://catalog.louisville.edu/search/? P=ENGL%20105) in lieu of ENGL 101 (https://catalog.louisville.edu/search/?P=ENGL%20101) or ENGL 102 (https://catalog.louisville.edu/search/?P=ENGL%20102) satisfy the General Education and Engineering Fundamentals requirements for Written Communication. However, an additional 3-hr Writing (WR) course or honors Written Communication (WC) course may be needed to satisfy program credit hour requirements.

Year 1		
Fall		Hours
ENGL 101	Introduction to College Writing - WC (https:// catalog.louisville.edu/undergraduate/general-education- requirements/)	3
AE 111	Fundamentals of Safety	3
AE 121	Computer-Aided Design	4

# UNIVERSITY OF LOUISVILLE.

ENGR 110 Er  ENGR 110 Er  Spring  ENGR 101 Er  UI  ENGR 111 Er  AE 122 El  AE 288 In  CHEM 101 Cl  CR  TE  WATH 109 El  UI  AE 123 Sc  TE  PHYS 295 In  CR  PHYS 295 In  CR  ENGR 110 In  CR  Spring  ENGL 102 In  CR  CR  CR  CR  CR  CR  CR  CR  CR  C	fferential Calculus for Engineering - QR (https:// talog.louisville.edu/undergraduate/general-education- quirements/) ingineering Methods, Tools, and Practice I  purs  Ingineering Analysis I - QR (https://catalog.louisville.edu/ indergraduate/general-education-requirements/) ingineering Methods, Tools and Practice II ectronic Systems  dustry Experience Seminar inemistry and Contemporary Society - S (https:// intalog.louisville.edu/undergraduate/general-education- quirements/)  purs  troduction to Public Speaking - OC (https:// intalog.louisville.edu/undergraduate/general-education- quirements/) ementary Statistics - QR (https://catalog.louisville.edu/ indergraduate/general-education-requirements/) buts  troductory Laboratories I - SL (https:// intalog.louisville.edu/undergraduate/general-education- quirements/) troductory Mechanics, Heat and Sound - S (https:// intalog.louisville.edu/undergraduate/general-education- quirements/) troductory Mechanics, Heat and Sound - S (https:// intalog.louisville.edu/undergraduate/general-education- quirements/) emiconductor Electronics interconductor Electronics interconducto	13 3 4 10 1 4 4 4 4 4 0 0 0 0 0 0 0 0 0 0 0
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Hi   Year 2   Fall	troductory Laboratories I - SL (https:// htalog.louisville.edu/undergraduate/general-education- quirements/) troductory Mechanics, Heat and Sound - S (https:// htalog.louisville.edu/undergraduate/general-education- quirements/) emiconductor Electronics ower Conversion & Control	10 1 4 4 4
Year 2           Fall           PHYS 295         In           care           PHYS 298         In           care         care           AE 221         Sx           AE 222         Px           AE 289         In           Spring         ENGL 102           ENGL 102         In           CSE 130         In           AE 223         In           AE 224         Di           AE 290         In           Year 3	troductory Laboratories I - SL (https:// htalog.louisville.edu/undergraduate/general-education- quirements/) troductory Mechanics, Heat and Sound - S (https:// htalog.louisville.edu/undergraduate/general-education- quirements/) emiconductor Electronics over Conversion & Control	4 4 4
Fall           PHYS 295         In care re           PHYS 298         In care re           AE 221         Sc re           AE 222         Pc AE 289           In Spring         In care re           ENGL 102         In care re           CSE 130         In AE 223           AE 224         Di           AE 290         In           Year 3	ntalog.louisville.edu/undergraduate/general-education- quirements/)  troductory Mechanics, Heat and Sound - S (https:// ntalog.louisville.edu/undergraduate/general-education- quirements/)  emiconductor Electronics ower Conversion & Control	4 4
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Spring ENGL 102 In ca re CSE 130 In AE 223 In AE 224 Di AE 290 In  Year 3	dustry Experience Hours Semester 1	0
Spring         In carrier           ENGL 102         In carrier           CSE 130         In AE 223           In AE 224         Di AE 290           In He         Year 3		
ENGL 102 In ca re CSE 130 In AE 223 In AE 224 Di AE 290 In He	Durs	13
CSE 130 In AE 223 In AE 224 Di AE 290 In Year 3		
AE 223 In AE 224 Di AE 290 In  Year 3	termediate College Writing - WC (https:// ntalog.louisville.edu/undergraduate/general-education- quirements/)	3
AE 224 Di AE 290 In He Year 3	troduction to C and C++ Programming Languages	3
AE 290 In He Year 3	dustrial Robotics I	4
He Year 3	gital Electronics	4
Year 3	dustry Experience Hours Semester 2	0
	ours	14
Fall		
AE 321 M	obile Robotics I	4
AE 322 Pr	ogrammable Logic Controllers	4
AE 389 In	dustry Experience Hours Semester 3	0
Ca	inciples of Microeconomics - SB (https:// utalog.louisville.edu/undergraduate/general-education- quirements/)	3
MGMT 301 M	anagement and Organizational Behavior	3
H	ours	14
Spring		
ACCT 201 Pr	inciples of Financial Accounting	3
AE 313 Q	uality & Lean Systems	3
AE 323 Pr	ogrammable Logic Controllers II	4
AE 390 In	dustry Experience Hours Semester 4	0
ISE 370 Er	ngineering Economic Analysis	3
Н	ours	13
Year 4 Fall		
AE 411: Project Mana		

	Minimum Total Hours	122
	Hours	16
AE 499	Industry Experience Hours: Final Semester	1
General Educa	ation Requirement - AH	3
Applied Engin	eering Elective	4
Applied Engin	Applied Engineering Elective	
AE 431	Mobile Robotics II	4
Spring		
	Hours	13
AE 489	Industry Experience Hours Semester 5	0
General Educa	eneral Education Requirement -AH	
Applied Engin	4	
General Education Requirement - SBH		

## **Degree Audit Report**

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. Should you have questions about either report, please consult with your academic advisor.

## Flight Planner

The Flight Planner tool is available for you to create a personalized Flight Plan to graduation. Advisors have access to review your Flight Planner and can help you adjust it to ensure you remain on track to graduate in a timely manner.

### To create these reports:

- 1. Log into your ULink account.
- 2. Click on the Academic Progress tile.
- 3. Select the appropriate report.
  - a. To run a Degree Audit report, click on "View my Degree Audit."
  - b. To create a What-if report, click on "Create a What-if Advisement Report."
  - c. To run a Flight Planner report, click on "Use My Flight Planner."

Click here to run a Degree Audit report, create a What-if report, or run a Flight Planner report. (https://ulink.louisville.edu/)