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PHYSICS (BA)

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-specificpolicies/catalog-year/).

Bachelor of Arts in Physics

Unit: College of Arts and Sciences (AS) (https://louisville.edu/ artsandsciences/home/)

Department: Physics and Astronomy (https://louisville.edu/physics/) Academic Plan Code(s): PHYSBA

Program Information

The Bachelor of Arts (BA) degree in Physics is designed for substantial pre-professional education for such fields as medicine, patent law, teaching, technical writing, and technical sales. Students preparing for secondary school science teaching may choose electives to help fulfill teaching certification requirements.

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

Degree Summary

Code	Title		Hours
	cation Requirements (l te/general-education-	nttps://catalog.louisville.edu/ requirements/) 1	31
College/Scho	ool Requirements		22
Program/Ma	jor Requirements ¹		33
Supporting C	Courses		35-36
Minimum To	tal Hours		121-122

Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree. See the Degree Requirements tab for specific coursework.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements

There are no specific admission requirements for this degree plan.

The Change Major Request form can be found under the Academic Progress tile on ULink (https://ulink.louisville.edu/).

General Education Requirements

	<u>-</u>	
Code	Title	Hours
	n Requirements (https://catalog.louisville.edu/ eneral-education-requirements/) ¹	31
3	urses are required by the program and can be take ctive General Education Requirement:	en
MATH 205	Calculus I - 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/)
,	dit hour Natural Science Gen Ed - S (excluding IYS 222, PHYS 223, and PHYS 224) at the 200 level or

All degrees require the completion of the University-wide General

Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

Minimum Total Hours

	_	•	
Code		Title	Hours
Arts & So	ciences R	equirements	
GEN 100		Student Success Center First Year Experience	1
or GEI		Arts & Sciences First Year Experience	
Foreign l	Language	2	12
Electives	in Huma	nities or Social Sciences ³	9
WR-two	approve	d courses at the 300 level or above ⁴	
Minimun	n Total Ho	ours	22

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Major Requirements	
Title	Hours
ysics	
Introduction to Scientific Computing and Data Analysis	3
Introductory Laboratories I - SL (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	1
Introductory Laboratories II - SL (https://catalog.louisville.edu/undergraduate/generaleducation-requirements/)	1
Introductory Mechanics, Heat and Sound - S (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	4
Introductory Electricity, Magnetism and Light	4
Introductory Modern Physics	3
Introductory Modern Physics Laboratory	1
Differential Equations for the Physical Sciences	4
following courses:	3
Practicum in Physics Education - CUE (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	
Senior Seminar in Physics - CUE (https://catalog.louisville.edu/undergraduate/generaleducation-requirements/), WR (https://catalog.louisville.edu/undergraduate/generaleducation-requirements/)	
	Introduction to Scientific Computing and Data Analysis Introductory Laboratories I - SL (https://catalog.louisville.edu/undergraduate/generaleducation-requirements/) Introductory Laboratories II - SL (https://catalog.louisville.edu/undergraduate/generaleducation-requirements/) Introductory Mechanics, Heat and Sound - S (https://catalog.louisville.edu/undergraduate/general-education-requirements/) Introductory Mechanics, Heat and Sound - S (https://catalog.louisville.edu/undergraduate/general-education-requirements/) Introductory Electricity, Magnetism and Light Introductory Modern Physics Introductory Modern Physics Laboratory Differential Equations for the Physical Sciences following courses: Practicum in Physics Education - CUE (https://catalog.louisville.edu/undergraduate/general-education-requirements/) Senior Seminar in Physics - CUE (https://catalog.louisville.edu/undergraduate/general-education-requirements/), WR (https://catalog.louisville.edu/undergraduate/general-education-requirements/), WR (https://catalog.louisville.edu/undergraduate/general-education-requirements/)



Minimum Hours	Required for Degree	121-122
Code	Title	Hours
Minimum Total H	lours	35-36
General Electives	s at the 200 level or above	6
	at the 300 level or above ⁵	6
STEM Electives (PHYS 224) at the	(excluding PHYS 221, PHYS 222, PHYS 223, and e 200 level or above 5	12
PHYS 375	Intermediate Scientific Computing and Data Analysis	
MATH 360	Statistical Data Analysis - WR (https://catalog.louisville.edu/undergraduate/generaleducation-requirements/)	
MATH 301	Calculus III	
Select one from	the following courses:	3-4
MATH 206	Calculus II	4
MATH 205	Calculus I - QR (https://catalog.louisville.edu/ undergraduate/general-education-requirement	s/)
Supporting Cour		
Code	Title	Hours
Minimum Total I	lours	33
PHYS 541	Electromagnetic Fields	
PHYS 530	Thermal Physics	
PHYS 460	Mechanics	
Select one of the	following courses:	3
PHYS electives a	at the 300 level or above	6
PHYS 499	Cooperative Internship in Physics - CUE (https: catalog.louisville.edu/undergraduate/general- education-requirements/)	//
PHYS 498	Undergraduate Research - CUE (https://catalog.louisville.edu/undergraduate/generaleducation-requirements/)	
	catalog.louisville.edu/undergraduate/general- education-requirements/), WR (https:// catalog.louisville.edu/undergraduate/general- education-requirements/)	

At least 50 of the total minimum hours required must be at the 300 level or above.

Code	Title	Hours
Culminating Under	rgraduate Experience (Graduation requirement)	
Requirement fulfill	ed by completing one of the following:	
	Practicum in Physics Education - CUE (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	
	Senior Seminar in Physics - CUE (https://catalog.louisville.edu/undergraduate/general-education-requirements/), WR (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	

PHYS 497	Senior Thesis in Physics - CUE (https:// catalog.louisville.edu/undergraduate/general- education-requirements/), WR (https:// catalog.louisville.edu/undergraduate/general- education-requirements/)
PHYS 498	Undergraduate Research - CUE (https:// catalog.louisville.edu/undergraduate/general- education-requirements/)
PHYS 499	Cooperative Internship in Physics - CUE (https://catalog.louisville.edu/undergraduate/generaleducation-requirements/)

- Ten credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree.
- 2 Completion of the intermediate level of a single foreign language.
- ³ In addition to courses counted toward General Education, 6 hours must be at the 300 level or above.
- ⁴ May be incorporated into other degree requirements.
- STEM electives refer to courses from Natural Sciences, Social Sciences, Engineering & CSE. Classes that meet the 12 hours for STEM electives at the 200+ level: CHEM 201, CHEM 202, CHEM 207, CHEM 208, CHEM 209, BIOL 240, BIOL 241, BIOL 242, and BIOL 243. Additional classes that meet the 6 hours for STEM electives at the 300+ level: CHEM 341, CHEM 342, CHEM 445, BIOL 540, and BIOL 329.

General Flight Plan

Year 1		
Fall		Hours
GEN 100 or GEN 101	Student Success Center First Year Experience or Arts & Sciences First Year Experience	1
ENGL 101	Introduction to College Writing - WC (https:// catalog.louisville.edu/undergraduate/general-education- requirements/)	3
MATH 205	Calculus I - QR (https://catalog.louisville.edu/ undergraduate/general-education-requirements/)	4
PHYS 295	Introductory Laboratories I - SL (https:// catalog.louisville.edu/undergraduate/general-education- requirements/)	1
PHYS 298	Introductory Mechanics, Heat and Sound - S (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	4
General Education:	Cardinal Core Oral Communication - OC	3
	Hours	16
Spring		
ENGL 102	Intermediate College Writing - WC (https:// catalog.louisville.edu/undergraduate/general-education- requirements/)	3
MATH 206	Calculus II	4
PHYS 296	Introductory Laboratories II - SL (https:// catalog.louisville.edu/undergraduate/general-education- requirements/)	1
PHYS 299	Introductory Electricity, Magnetism and Light	4
Elective in the Hum	anities or Social Sciences	3
	Hours	15
Year 2		
Fall		
PHYS 275	Introduction to Scientific Computing and Data Analysis	3
General Education:	Cardinal Natural Sciences - S	3
General Education:	Cardinal Core Arts & Humanitites - AH	3
Foreign Language 1		4

Hours

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	Haura	3
0	Hours	16
Spring	In the decade on Mandama Diversion	
PHYS 300	Introductory Modern Physics	3
PHYS 301	Introductory Modern Physics Laboratory	1
200+ STEM Electi		3
200+ STEM Electi		3
Foreign Language		
	Hours	14
Year 3		
Fall		
PHYS 350	Differential Equations for the Physical Sciences	2
Foreign Language	23	4
General Educatior Perspective - SBH	n: Cardinal Core Social & Behavioral Sciences Historical I	3
200+ STEM Electi	ve	3
200+ STEM Electi	ve	3
	Hours	17
Spring		
PHYS 375	Intermediate Scientific Computing and Data Analysis	3
or MATH 301	or Calculus III	
or MATH 360	or Statistical Data Analysis - WR (https://	
	catalog.louisville.edu/undergraduate/general- education-requirements/)	
PHYS 460	Mechanics	3
General Education	n: Cardinal Core Arts & Humanities Global Perspectives -	3
AHP2	i. ourumur oore riito a riumumiteo olobur r eropeotiveo	·
Humanities or Soc	cial Science WR Elective (300 level or above)	3
Foreign Language	e 4 (if needed) or 300+ Elective	3
	Hours	15
F all Select one of the t	following courses:	;
PHYS 430	Practicum in Physics Education - CUE (https://	
	catalog.louisville.edu/undergraduate/general-education- requirements/)	
PHYS 496	Senior Seminar in Physics - CUE (https://	
	catalog.louisville.edu/undergraduate/general-education- requirements/), WR (https://catalog.louisville.edu/ undergraduate/general-education-requirements/)	
PHYS 497	Senior Thesis in Physics - CUE (https://	
	catalog.louisville.edu/undergraduate/general-education- requirements/), WR (https://catalog.louisville.edu/	
	undergraduate/general-education-requirements/)	
PHYS 498	Undergraduate Research - CUE (https:// catalog.louisville.edu/undergraduate/general-education-	
PHYS 499	requirements/) Cooperative Internship in Physics - CUE (https://	
PH15 499	catalog.louisville.edu/undergraduate/general-education- requirements/)	
	ve	:
PHYS 300+ electiv		,
General Education	n: Cardinal Core Social & Behavioral Sciences US BP1	
PHYS 300+ electives and series of the series	BP1	3
General Education Perespectives - SI 300+ General Elec	BP1 stive	3
General Education Perespectives - SI 300+ General Elec	BP1 stive	3
General Educatior Perespectives - SB 300+ General Elec 300+ STEM Electi	BP1 ctive ve	3
General Educatior Perespectives - SI 300+ General Elec 300+ STEM Electi Spring	BP1 ctive ve Hours	3 3 1!
General Educatior Perespectives - St 300+ General Elec 300+ STEM Electi Spring PHYS 300+ electiv	BP1 ctive ve Hours	3 3 19
General Education Perespectives - St 300+ General Elec 300+ STEM Electi Spring PHYS 300+ electiv Humanities or Soo	BP1 ctive ve Hours	3 3 1!
General Education Perespectives - St 300+ General Election 300+ STEM Election Spring PHYS 300+ election Humanities or Soc 300+ Elective	BP1 ctive ve Hours	3 3 18 3 3
General Education Perespectives - St 300+ General Election 300+ STEM Election Spring PHYS 300+ election Humanities or Soc 300+ Elective 300+ Elective	BP1 ctive ve Hours	3 3 18 3 3 3
General Educatior Perespectives - St 300+ General Elec 300+ STEM Electi Spring PHYS 300+ electiv	BP1 ctive ve Hours	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

Pre-Med Flight Plan

Year	1
Fall	

		Hours
GEN 100 or GEN 101	Student Success Center First Year Experience or Arts & Sciences First Year Experience	1
ENGL 101	Introduction to College Writing - WC (https://catalog.louisville.edu/undergraduate/general-education-	3
MATH 205	requirements/) Calculus I - QR (https://catalog.louisville.edu/ undergraduate/general-education-requirements/)	4
PHYS 298	Introductory Mechanics, Heat and Sound - S (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	4
PHYS 295	Introductory Laboratories I - SL (https:// catalog.louisville.edu/undergraduate/general-education- requirements/)	1
General Education	Cardinal Core Oral Communication - OC	3
	Hours	16
Spring		
MATH 206	Calculus II	4
PHYS 299	Introductory Electricity, Magnetism and Light	4
PHYS 296	Introductory Laboratories II - SL (https:// catalog.louisville.edu/undergraduate/general-education- requirements/)	1
CHEM 201	General Chemistry I - S (https://catalog.louisville.edu/ undergraduate/general-education-requirements/)	3
CHEM 207	Introduction to Chemical Analysis I - SL (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	1
CHEM 208	Introduction to Chemical Analysis II - SL (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	1
ENGL 102	Intermediate College Writing - WC (https:// catalog.louisville.edu/undergraduate/general-education- requirements/)	3
	Hours	17
Year 2	Hours	17
Year 2 Fall	Hours	17
	Hours Introduction to Scientific Computing and Data Analysis	17
Fall		
Fall PHYS 275	Introduction to Scientific Computing and Data Analysis General Chemistry II - S (https://catalog.louisville.edu/	3
Fall PHYS 275 CHEM 202	Introduction to Scientific Computing and Data Analysis General Chemistry II - S (https://catalog.louisville.edu/ undergraduate/general-education-requirements/)	3
Fall PHYS 275 CHEM 202 CHEM 209	Introduction to Scientific Computing and Data Analysis General Chemistry II - S (https://catalog.louisville.edu/ undergraduate/general-education-requirements/) Introduction to Chemical Analysis III Unity of Life - S (https://catalog.louisville.edu/	3 3
Fall PHYS 275 CHEM 202 CHEM 209 BIOL 240	Introduction to Scientific Computing and Data Analysis General Chemistry II - S (https://catalog.louisville.edu/ undergraduate/general-education-requirements/) Introduction to Chemical Analysis III Unity of Life - S (https://catalog.louisville.edu/ undergraduate/general-education-requirements/) Experimental Biology I: Molecules and Cells - SL (https:// catalog.louisville.edu/undergraduate/general-education-requirements/)	3 3 1 3
Fall PHYS 275 CHEM 202 CHEM 209 BIOL 240 BIOL 241 Foreign Language	Introduction to Scientific Computing and Data Analysis General Chemistry II - S (https://catalog.louisville.edu/ undergraduate/general-education-requirements/) Introduction to Chemical Analysis III Unity of Life - S (https://catalog.louisville.edu/ undergraduate/general-education-requirements/) Experimental Biology I: Molecules and Cells - SL (https:// catalog.louisville.edu/undergraduate/general-education-requirements/)	3 3 1 3
Fall PHYS 275 CHEM 202 CHEM 209 BIOL 240 BIOL 241 Foreign Language Spring	Introduction to Scientific Computing and Data Analysis General Chemistry II - S (https://catalog.louisville.edu/ undergraduate/general-education-requirements/) Introduction to Chemical Analysis III Unity of Life - S (https://catalog.louisville.edu/ undergraduate/general-education-requirements/) Experimental Biology I: Molecules and Cells - SL (https:// catalog.louisville.edu/undergraduate/general-education- requirements/) Hours	3 3 1 3 1 4 15
Fall PHYS 275 CHEM 202 CHEM 209 BIOL 240 BIOL 241 Foreign Language Spring PHYS 300	Introduction to Scientific Computing and Data Analysis General Chemistry II - S (https://catalog.louisville.edu/ undergraduate/general-education-requirements/) Introduction to Chemical Analysis III Unity of Life - S (https://catalog.louisville.edu/ undergraduate/general-education-requirements/) Experimental Biology I: Molecules and Cells - SL (https:// catalog.louisville.edu/undergraduate/general-education- requirements/) Hours Introductory Modern Physics	3 3 1 3 1 4 15
Fall PHYS 275 CHEM 202 CHEM 209 BIOL 240 BIOL 241 Foreign Language Spring PHYS 300 PHYS 301	Introduction to Scientific Computing and Data Analysis General Chemistry II - S (https://catalog.louisville.edu/ undergraduate/general-education-requirements/) Introduction to Chemical Analysis III Unity of Life - S (https://catalog.louisville.edu/ undergraduate/general-education-requirements/) Experimental Biology I: Molecules and Cells - SL (https://catalog.louisville.edu/undergraduate/general-education-requirements/) Hours Introductory Modern Physics Introductory Modern Physics Laboratory	3 3 1 3 1 4 15 3
Fall PHYS 275 CHEM 202 CHEM 209 BIOL 240 BIOL 241 Foreign Language Spring PHYS 300	Introduction to Scientific Computing and Data Analysis General Chemistry II - S (https://catalog.louisville.edu/ undergraduate/general-education-requirements/) Introduction to Chemical Analysis III Unity of Life - S (https://catalog.louisville.edu/ undergraduate/general-education-requirements/) Experimental Biology I: Molecules and Cells - SL (https:// catalog.louisville.edu/undergraduate/general-education-requirements/) Hours Introductory Modern Physics Introductory Modern Physics Laboratory Organic Chemistry I Diversity of Life - S (https://catalog.louisville.edu/	3 3 1 3 1 4 15
Fall PHYS 275 CHEM 202 CHEM 209 BIOL 240 BIOL 241 Foreign Language Spring PHYS 300 PHYS 301 CHEM 341	Introduction to Scientific Computing and Data Analysis General Chemistry II - S (https://catalog.louisville.edu/ undergraduate/general-education-requirements/) Introduction to Chemical Analysis III Unity of Life - S (https://catalog.louisville.edu/ undergraduate/general-education-requirements/) Experimental Biology I: Molecules and Cells - SL (https://catalog.louisville.edu/undergraduate/general-education-requirements/) Hours Introductory Modern Physics Introductory Modern Physics Laboratory Organic Chemistry I	3 3 1 3 1 3 1 3 1 3 3 3 3 3 3
Fall PHYS 275 CHEM 202 CHEM 209 BIOL 240 BIOL 241 Foreign Language Spring PHYS 300 PHYS 301 CHEM 341 BIOL 242	Introduction to Scientific Computing and Data Analysis General Chemistry II - S (https://catalog.louisville.edu/ undergraduate/general-education-requirements/) Introduction to Chemical Analysis III Unity of Life - S (https://catalog.louisville.edu/ undergraduate/general-education-requirements/) Experimental Biology I: Molecules and Cells - SL (https:// catalog.louisville.edu/undergraduate/general-education-requirements/) I Hours Introductory Modern Physics Introductory Modern Physics Laboratory Organic Chemistry I Diversity of Life - S (https://catalog.louisville.edu/ undergraduate/general-education-requirements/) Experimental Biology II: Organismal Biology - SL (https:// catalog.louisville.edu/undergraduate/general-education-requirements/)	3 3 1 3 1 3 1 3 3 3 3
Fall PHYS 275 CHEM 202 CHEM 209 BIOL 240 BIOL 241 Foreign Language Spring PHYS 300 PHYS 301 CHEM 341 BIOL 242 BIOL 243 Foreign Language	Introduction to Scientific Computing and Data Analysis General Chemistry II - S (https://catalog.louisville.edu/ undergraduate/general-education-requirements/) Introduction to Chemical Analysis III Unity of Life - S (https://catalog.louisville.edu/ undergraduate/general-education-requirements/) Experimental Biology I: Molecules and Cells - SL (https:// catalog.louisville.edu/undergraduate/general-education-requirements/) I Hours Introductory Modern Physics Introductory Modern Physics Laboratory Organic Chemistry I Diversity of Life - S (https://catalog.louisville.edu/ undergraduate/general-education-requirements/) Experimental Biology II: Organismal Biology - SL (https:// catalog.louisville.edu/undergraduate/general-education-requirements/)	3 3 1 3 1 3 1 3 3 1
Fall PHYS 275 CHEM 209 BIOL 240 BIOL 241 Foreign Language Spring PHYS 300 PHYS 301 CHEM 341 BIOL 242 BIOL 243 Foreign Language Year 3 Fall	Introduction to Scientific Computing and Data Analysis General Chemistry II - S (https://catalog.louisville.edu/ undergraduate/general-education-requirements/) Introduction to Chemical Analysis III Unity of Life - S (https://catalog.louisville.edu/ undergraduate/general-education-requirements/) Experimental Biology I: Molecules and Cells - SL (https://catalog.louisville.edu/undergraduate/general-education-requirements/) Hours Introductory Modern Physics Introductory Modern Physics Laboratory Organic Chemistry I Diversity of Life - S (https://catalog.louisville.edu/ undergraduate/general-education-requirements/) Experimental Biology II: Organismal Biology - SL (https://catalog.louisville.edu/undergraduate/general-education-requirements/) Experimental Biology II: Organismal Biology - SL (https://catalog.louisville.edu/undergraduate/general-education-requirements/) Hours	3 3 1 3 1 3 1 4 15 4 15
Fall PHYS 275 CHEM 209 BIOL 240 BIOL 241 Foreign Language Spring PHYS 300 PHYS 301 CHEM 341 BIOL 242 BIOL 243 Foreign Language Year 3 Fall PHYS 350	Introduction to Scientific Computing and Data Analysis General Chemistry II - S (https://catalog.louisville.edu/ undergraduate/general-education-requirements/) Introduction to Chemical Analysis III Unity of Life - S (https://catalog.louisville.edu/ undergraduate/general-education-requirements/) Experimental Biology I: Molecules and Cells - SL (https://catalog.louisville.edu/undergraduate/general-education-requirements/) Hours Introductory Modern Physics Introductory Modern Physics Laboratory Organic Chemistry I Diversity of Life - S (https://catalog.louisville.edu/ undergraduate/general-education-requirements/) Experimental Biology II: Organismal Biology - SL (https://catalog.louisville.edu/undergraduate/general-education-requirements/) 2 Hours Differential Equations for the Physical Sciences	3 3 1 3 1 3 1 4 15 3 1 3 1 4 15 4 15
Fall PHYS 275 CHEM 209 BIOL 240 BIOL 241 Foreign Language Spring PHYS 300 PHYS 301 CHEM 341 BIOL 242 BIOL 243 Foreign Language Year 3 Fall	Introduction to Scientific Computing and Data Analysis General Chemistry II - S (https://catalog.louisville.edu/ undergraduate/general-education-requirements/) Introduction to Chemical Analysis III Unity of Life - S (https://catalog.louisville.edu/ undergraduate/general-education-requirements/) Experimental Biology I: Molecules and Cells - SL (https://catalog.louisville.edu/undergraduate/general-education-requirements/) Hours Introductory Modern Physics Introductory Modern Physics Laboratory Organic Chemistry I Diversity of Life - S (https://catalog.louisville.edu/ undergraduate/general-education-requirements/) Experimental Biology II: Organismal Biology - SL (https://catalog.louisville.edu/undergraduate/general-education-requirements/) Experimental Biology II: Organismal Biology - SL (https://catalog.louisville.edu/undergraduate/general-education-requirements/) Hours	3 3 1 3 1 3 1 4 15 4 15



General Education: Cardinal Core Arts & Humanitites - AH 3 4 Foreign Language 3 17 Hours Spring **PHYS 460** Mechanics 3 PHYS 375 Intermediate Scientific Computing and Data Analysis 3 CHEM 445 3 Survey of Biochemistry or BIOL 540 or Metabolic Biochemistry 3 General Education: Cardinal Core Social & Behavioral Sciences Historical Perspective - SBH Foreign Language 4 (if needed) or General Elective 3 15 Hours Year 4 Select one of the following courses: **PHYS 430** Practicum in Physics Education - CUE (https:// catalog.louisville.edu/undergraduate/general-educationrequirements/) **PHYS 496** Senior Seminar in Physics - CUE (https:// catalog.louisville.edu/undergraduate/general-educationrequirements/), WR (https://catalog.louisville.edu/ undergraduate/general-education-requirements/) **PHYS 497** Senior Thesis in Physics - CUE (https:// catalog.louisville.edu/undergraduate/general-educationrequirements/), WR (https://catalog.louisville.edu/ undergraduate/general-education-requirements/) **PHYS 498** Undergraduate Research - CUE (https:// catalog.louisville.edu/undergraduate/general-educationrequirements/) PHYS 499 Cooperative Internship in Physics - CUE (https:// catalog.louisville.edu/undergraduate/general-educationrequirements/) PHYS 300+ elective Humanities or Social Science WB Elective (300 level or above) 3 General Education: Cardinal Core Social & Behavioral Sciences US 3 Perspectives - SBP1 General Elective 3 15 Hours Spring PHYS 300+ elective 3 Humanities or Social Science WR Elective (300 level or above) General Education: Cardinal Core Arts & Humanities Global Perspectives -3 AHP2 **Humanities or Social Science Elective** 3 Hours 12 **Minimum Total Hours** 122

The Flight Plan outlined above is intended to demonstrate one possible path to completing the degree within four years. Course selection and placement within the program may vary depending on course offerings and schedule, elective preferences, and other factors (study abroad, internship availability, etc.). Please consult your advisor for additional information about building a flight plan that works for you.

Degree Audit Report

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan, and which requirements are still outstanding. Degree audits also take transfer credits and test credits into account. "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 "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)