

Physics w/Astrophysics Emphasis Roadmap

Program	Bachelor of Science: Physics w/Astrophysics Emphasis
Total Credits	120
Catalog	2021-2022

The plan below is **one** of several possible ways for you to complete this degree.

Your individualized plan may look different if you have already fulfilled some requirements.

Your Financial Aid Award may require additional term credits for full-time funding.

You must complete all university and program requirements successfully to complete this degree (GPA, 120 credits, LASC, WI, residency)

Curriculum	Notes	Course	Course Title	Credits	Take When	Total Credits
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120.00

1st Year: Fall 2021 - Spring 2022

Core Requirement:	LASC 3	4	PHYS 200	Physics I with Calculus and Lab	4.00	1st Fall	15.00
Related Requirement:	LASC 4	1	MATH 261	Calculus I	4.00	1st Fall	
	First-Year Experience Course		FYE 101	First Year Experience	1.00	1st Fall	
	LASC 1B		ENGL 101	English Composition	3.00	1st Fall	
	LASC	3			3.00	1st Fall	
Core Requirement:			PHYS 201	Physics II with Calculus and Lab	4.00	1st Spring	14.00
Related Requirement:			MATH 262	Calculus II	4.00	1st Spring	
Emphasis Restricted Elective:	LASC 3		AST 100	Intro to a Universe of Astronomy	3.00	1st Spring	
	LASC 1A		COMM 100	Speech Communication	3.00	1st Spring	

2nd Year: Fall 2022 - Spring 2023

Core Requirement:	PHYS 202	3.00	20th Century Physics	20th Century Physics	3.00	2nd Fall	15.00
Core Requirement:	PHYS 305	3.00	Experimental Physics I	Experimental Physics I	3.00	2nd Fall	
Core Requirement:	PHYS 315	1.00	Physics Seminar	Physics Seminar	1.00	2nd Fall	
Related Requirement:	MATH 323	4.00	Multi-Variable & Vector Calculus	Multi-Variable & Vector Calculus	4.00	2nd Fall	
Recommended Elective:		1.00	MATH 260	Computer Calculus	1.00	2nd Fall	
	LASC	3.00			3.00	2nd Fall	
Core Requirement:			PHYS 322	Elementary Modern Physics	3.00	2nd Spring	15.00
Core Requirement:			PHYS 350	Comp. Methods for Physical Science	3.00	2nd Spring	
Related Requirement:			MATH 366	Differential Equations	3.00	2nd Spring	
	LASC	3.00			3.00	2nd Spring	
	LASC/WI	3.00			3.00	2nd Spring	

3rd Year: Fall 2023- Spring 2024

Core Requirement:	PHYS 330	4.00	Intermediate Mechanics	Intermediate Mechanics	4.00	3rd Fall	16.00
Emphasis Requirement:	PHYS 380	3.00	Thermodynamics	Thermodynamics	3.00	3rd Fall	
Recommended Elective:		4	MATH 327	Intro to Linear Algebra	3.00	3rd Fall	
	LASC				3.00	3rd Fall	
	LASC				3.00	3rd Fall	
Emphasis Requirement:			PHYS 370	Electromagnetic Theory	4.00	3rd Spring	17.00
Core Requirement:	WI 200-level or higher		PHYS 306	Experimental Physics II	3.00	3rd Spring	
Core Requirement:			PHYS 342	Intro to Research	1.00	3rd Spring	
	LASC				3.00	3rd Spring	
	LASC				3.00	3rd Spring	
	LASC				3.00	3rd Spring	

4th Year: Fall 2024 - Spring 2025

Core Requirement:	PHYS 492	2.00	Senior Project	Senior Project	2.00	4th Fall	14.00
Emphasis Requirement:			AST 266	Observational Astronomy	3.00	4th Fall	
Emphasis Restricted Elective:					3.00	4th Fall	
Writing Intensive:	200-level or higher				3.00	4th Fall	
General Elective/Minor Course:					3.00	4th Fall	
Emphasis Requirement:			PHYS 430	Quantum Mechanics	3.00	4th Spring	14.00
Related Requirement:	WI for major		ENGL 387	Technical Report Writing	3.00	4th Spring	
Emphasis Restricted Elective:			AST 365/410	Cosmology or Astrophysics	3.00	4th Spring	
General Elective/Minor Course:					3.00	4th Spring	
General Elective/Minor Course:					2.00	4th Spring	