

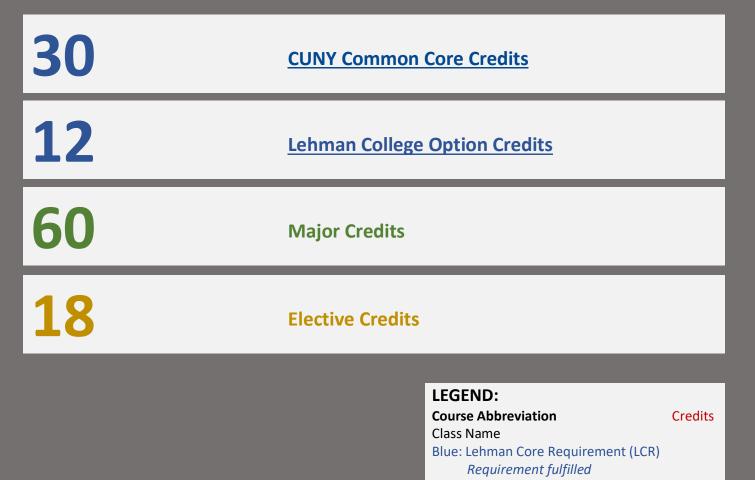


Physics, BS

Academic Plan: PHYS-BS Program Code: 34031

This degree map is a term-by-term sample course schedule designed to assist you and your advisor in planning your 4-year academic path to graduation with a Physics Degree.

You and your advisor will use it, along with the program of study for your major (found in the <u>Lehman Bulletin</u> for the year of your major declaration) and Degree Works (degree audit system), to formulate your customized plan.



Green: Major Requirement

- see footnote

Gold: Elective, Minor, or Certificate

Underlined information is hyperlinked

FALL

ESHMAN

SOPHOMOR

ENG 111 3 CR English Composition I Required Core – Communication	ENG 1213 CREnglish Composition IIRequired Core – Communication
LCR 3 CR <u>Flexible Core – World Cultures and Global</u> Issues	LCR 3 CR <u>Flexible Core – Creative Expression</u>
LCR 3 CR Flexible Core – Individual and Society	LCR3 CRFlexible Core -US Experience in itsDiversity
MAT 171 and MAT 105 5 CR Elements of Pre-Calculus and Immersive Algebra	MAT 175-LCR4 CRCalculus IRequired Core – Quantitative Skills
Elective 3 CR LEH 100 (recommended) The Liberal Arts - Freshman Seminar	MAT 155 1 CR Calculus I Lab

SPRING

17 FALL CREDITS + 14 SPRING CREDITS = 31 CREDITS

FALL		SPRING	
LCR Foreign Language I <u>Lehman College Option</u>	3 CR	LCR Foreign Language II <u>Lehman College Option</u>	3 CR
LCR <u>Flexible Core – Scientific World</u>	3 CR	MAT 226 Vector Calculus	4 CR
MAT 176 Calculus II	4 CR	PHY 169 ^[3] - LCR Physics II for Scientists and Engineers	5 CR
MAT 156 Calculus II Lab	1 CR	<u>Flexible Core – Any area</u> ^[1]	
PHY 168 ^[3] -LCR Physics I for Scientists and Engineers Required Core-Life and Physical Science	5 CR	PHY 207 Mathematics for the Physical Sciences	4 CR

31 PRIOR CREDITS + 16 FALL CREDITS + 16 SPRING CREDITS = 63 CREDITS

	FALL		SPRING	
R	LCR <u>LEH 352, 353, 354, or 355</u> ^[2] <u>Lehman College Option</u>	3 CR	LCR <u>LEH 352, 353, 354, or 355</u> ^[2] <u>Lehman College Option</u>	3 CR
\underline{O}	<u>PHY 241</u> Modern Physics	4 CR	AST or PHY 2##, 3##, 4## ^[4] Major Elective	3 CR
NN	PHY 301 Intermediate Electricity and Magnetism	4 CR	<u>PHY 251</u> Modern Physics Lab	2 CR
	<u> </u>	3-4 CR	MAT 313 or MAT 323 or Elective ^[6] Elements of Linear Algebra or Ordinary Differential Equations	4 CR
	Additional Math courses		Elective	3 CR

63 PRIOR CREDITS + 14 FALL CREDITS + 15 SPRING CREDITS = 92 CREDITS

	FALL		SPRING	
OR	PHY 302 Intermediate Mechanics	4 CR	AST or PHY 2## or 3## or 4 ## ^[4] Major Elective	3 CR
NIO	PHY 307 Mathematical Physics	4 CR	PHY 303 Thermodynamics and Statistical Mechae	4 CR nics
SE	Elective	3 CR	PHY 400 Introductory Quantum Mechanics	4 CR
	Elective	3 CR	Elective	3 CR

92 PRIOR CREDITS + 14 FALL CREDITS + 14 SPRING CREDITS = 120 CREDITS

[1] No more than two courses in one discipline may be used to satisfy Flexible Core requirements.

[2] These are variable topics courses, where each section covers a special topic. Take two courses with two different numbers. Pre-requisite: You must have achieved 60 credits and declared your major. Integration Courses: LEH 352: Studies in Literature, LEH 353: Studies in the Arts, LEH 354: Studies in Historical Studies, LEH 355: Studies in Philosophy, Theory & Abstract Thinking. (LEH 351: Studies in Science & Applied Perspectives, is NOT a College Option for this Major).

[3] With permission from the Chair students may take PHY 166, PHY 167 in place of PHY 168, PHY 169.

[4] 6 credits in at least two additional PHY or AST courses at the 200 level or above. With permission from the Chair one of these additional courses may be at the 100 level.

[5] 6 credits in at least two additional MAT courses at the 200 level or above.

[6] MAT 313 or MAT 323 is a corequisite for PHY 400

NOTE: Writing Intensive Sections: Complete 4 sections designated as writing-intensive, 3 prior to earning 60 credits and 1 following. These sections may be searched by class attribute and are offered in General Education, major, minor and elective courses.

See other degree maps.