



Macaulay Honors College MHC Physics BS

Academic Plan: MHCPHY-BS Program Code: 34252

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.

30	CUNY Common Core Credits
9-18	Additional Macaulay Honors Requirements
12	Lehman College Option Credits
60	Major Credits
0-9	Elective Credits

LEGEND:	
Course Abbreviation	Credits
Class Name	
Blue: Lehman Core Requirement (LCR)	&
Macaulay Honors College Requirement	
Requirement fulfilled	
Green: Major Requirement	
Gold: Elective, Minor, or Certificate	
[#] - see footnote	
Underlined information is hyperlinked	

FALL

۷	ENG 111 English Composition I <u>Required Core – Communication</u>	3 CR	<u>MHC 351</u> The Peopling of New York City Fulfills <i>Flexible Core – US Experience</i> <i>in Its Diversity</i>	3 CR
HMAN	<u>MHC 350</u> The Arts in New York City Fulfills <i>Flexible Core – Creative</i> <i>Expression</i>	3 CR	LCR Foreign Language I College Option - Foreign Language	3 CR
ESF	LCR <u>Flexible Core – World Cultures and Glob</u> <u>Issues</u>	3 CR <u>al</u>	MAT 175-LCR Calculus I <u>Required Core – Quantitative Skills</u>	4 CR
	MAT 171 and MAT 105 Elements of Pre-Calculus and Immersive Algebra	5 CR	MAT 155 Calculus I Lab	1 CR
	Elective	3 CR	LSP ###/ MHC ### ^[10] Select one LSP/MHC Seminar	3 CR
	Note: Macaulay Honors Advisement ^[7]	_	Note: Macaulay Honors Advisement ^[7]	

17 FALL CREDITS + 14 SPRING CREDITS = 31 CREDITS

SOPHOMORE

FALL	
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<u>MHC 352</u> Science and Technology in New York City Fulfills <i>Flexible Core</i> – <i>Scientific World</i>	3 CR	ENG 121 English (<u>Requirec</u>
LCR Foreign Language II <i>College Option - Foreign Language</i>	3 CR	MHC 353 Shaping Fulfills Fi Society
MAT 176 Calculus II	4 CR	MAT 220 Vector C
MAT 156 Calculus II Lab	1 CR	PHY 169 Physics I Flexible
PHY 168 ^[3] - LCR Physics I for Scientists and Engineers	5 CR	
<u>Required core-Life and Physical</u> <u>Sciences</u>		<u>PHY 207</u> Mathem
Note: Macaulay Honors Advisement ^[7]		Note: Ma

SPRING

SPRING

3 CR	ENG 121 English Composition II <u>Required Core – Communication</u>	3 CR
3 CR	<u>MHC 353</u> Shaping the Future of New York City Fulfills <i>Flexible Core – Individual and</i> <i>Society</i>	3 CR
4 CR	MAT 226 Vector Calculus	4 CR
1 CR	PHY 169 ^[3] - LCR Physics II for Scientists and Engineers	5 CR
5 CR	<u>Flexible Core – Any area</u> ^[1]	
	PHY 207 Mathematics for the Physical Sciences	4 CR
	Note: Macaulay Honors Advisement ^[7]	

	FALL	- 1	SPRING	
\sim	LCR Foreign Language III <i>College Option - Foreign Language</i>	3 CR	Internship or Study Abroad or Elective ^[9]	3 CR
			LSP ###/ MHC ### ^[10]	3 CR
\bigcirc	LSP ###/ MHC ### ^[10] Select one LSP/MHC Seminar	3 CR	Select one LSP/MHC Seminar	
			AST or PHY 2##, 3##, 4## ^[4]	3 CR
UNIC	<u>PHY 241</u> Modern Physics	4 CR	Major Elective	
			PHY 251	2 CR
	PHY 301 Intermediate Electricity and Magnetis	4 CR m	Modern Physics Lab	
			MAT 313 or MAT 323 or Elective ^[6]	4 CR
	MAT 2##, 3##, 4## ^[5] Additional Math courses	3-4 CR	Elements of Linear Algebra or Ordinary Differential Equations	
	Note: Additional Macaulay Requirements [8]	_	Note: Additional Macaulay Requirements [8]	_

66 PRIOR CREDITS + 17 FALL CREDITS + 15 SPRING CREDITS = 98 CREDITS

SENIOR

FALL		SPRING	
Senior Year Option 1 or 2 ^[11]	3-6 CR	Senior Year Op	
LCR Foreign Language IV <i>College Option - Foreign Language</i>	3 CR	AST or PHY 2# Major Elective	
PHY 302 Intermediate Mechanics	4 CR	<u>PHY 303</u> Thermodynam	
PHY 307 Mathematical Physics	4 CR	<u>PHY 400</u>	

Senior Year Option 1 or 2 [11]3-6 CRAST or PHY 2## or 3## or 4 ## [4]3 CRMajor Elective4 CRPHY 3034 CRThermodynamics and Statistical MechanicsPHY 4004 CRIntroductory Quantum Mechanics

99 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

[7] Every Macaulay Honors student is required to meet with the Macaulay Honors Advisor prior to registration during their first four terms.

[8] Every Macaulay Honors student is required to complete a minimum of 30 hours of community service by their senior year.

[9] Every Macaulay Honors student is required to complete at least one (1) qualifying internship or study abroad experience. Students may fulfill this requirement with a paid, unpaid, and credit-bearing or non-credit bearing experience. In all instances, students must complete an MHC internship agreement form and subsequent internship evaluation, in order to be acknowledged for fulfilling this requirement.

[10] Every Macaulay Honors student is required to complete nine (9) credits in Upper Level honors courses (MHC or LSP). These courses can be taken at the Macaulay Honors College, which may require an ePermit (See Advisor). They may also be taken on campus by enrolling in an LSP Seminar.

[11] Macaulay Honors students may chose a Senior Option 1 or Senior Option 2 based on the following Senior Option 1

> Fall Semester: LSP ###/ MHC ### (select one LSP/MHC seminar) Spring Semester: Honors in Major (Where offered) or LSP 481: Honors Tutorial

Senior Option 2

Fall Semester: <u>LSP ###/ MHC ###</u> (select one LSP/MHC seminar) and <u>MHC 355:</u> Research Seminar (Part 1 Spring Semester: <u>MHC 355:</u> Research Seminar (Part 2)

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.

*NOTE: Kindly speak with your Macaulay Honors advisor or Honors Program Director. For further information, kindly view the following link:

https://macaulay.cuny.edu/admissions/tuition-and-merit-scholarship/tuition-information/

See other degree maps.