

# Macaulay Honors College

## MHC Chemistry, BA

### Subplan Biochemistry

Academic Plan: MHCHEM-BA  
Program Code: 38635

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 Chemistry Degree.

You and your advisor will use it, along with the program of study for your major (found in the [Lehman Catalog](#) 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****69****Major 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

# FRESHMAN

## FALL

**ENG 111** 3 CR  
English Composition I  
*Required Core – Communication*

**MHC 350** 3 CR  
The Arts in New York City  
Fulfills *Flexible Core – Creative Expression*

**MAT 172** 4 CR  
Pre-calculus

**CHE 166- LCR<sup>[1]</sup>** 4 CR  
General Chemistry I Lecture  
*Required Core – Life and Physical Science*

**CHE 167** 1.5 CR  
General Chemistry I Lab

Note: Macaulay Honors Advisement<sup>[8]</sup>

## SPRING

**MHC 351** 3 CR  
The Peopling of New York City  
Fulfills *Flexible Core – US Experience in Its Diversity*

**LCR** 3 CR  
*Flexible Core – World Cultures and Global Issues*

**CHE 168 and CHE 169 – LCR** 5.5 CR  
General Chemistry II  
Lecture and Lab  
*Flexible Core – Any area* <sup>[2]</sup>

**MAT 175 -LCR** 4 CR  
Calculus I  
*Required Core – Quantitative Skills*

**MAT 155** 1 CR  
Calculus I Lab

Note: Macaulay Honors Advisement<sup>[8]</sup>

15.5 FALL CREDITS + 16.5 SPRING CREDITS = 32 CREDITS

# SOPHOMORE

## FALL

**MHC 352** 3 CR  
Science and Technology in New York City  
Fulfills *Flexible Core – Scientific World*

**BIO 166** 4 CR  
Principles of Biology: Cells and Genes

**CHE 232** 4 CR  
Organic Chemistry I Lecture

**CHE 233** 2 CR  
Organic Chemistry I Lab

**MAT 176** 4 CR  
Calculus II

**MAT 156** 1 CR  
Calculus II Lab

Note: Macaulay Honors Advisement<sup>[8]</sup>

## SPRING

**ENG 121** 3 CR  
English Composition II  
*Required Core – Communication*

**MHC 353** 3 CR  
Shaping the Future of New York City  
Fulfills *Flexible Core – Individual and Society*

**BIO 167** 4 CR  
Principles of Biology: Cells and Genes

**CHE 234 and CHE 235** 6 CR  
Organic Chemistry II  
Lecture and Lab

**CHE 450** 1 CR  
Seminar

Note: Macaulay Honors Advisement<sup>[8]</sup>

32 PRIOR CREDITS + 20 FALL CREDITS + 17 SPRING CREDITS = 69 CREDITS

# JUNIOR

## FALL

LSP ###/ MHC ### <sup>[9]</sup> 3 CR  
*Select one LSP/MHC Seminar*

**LCR** 3 CR  
 Foreign Language I  
*College Option - Foreign Language*

**CHE 444** 3 CR  
 Biochemistry I

**PHY 168** <sup>[3]</sup> 5 CR  
 Physics I for Scientists and Engineers

**CHE 391** <sup>[4]</sup> or Elective 1 CR

Note: Additional Macaulay Requirements <sup>[9]</sup>

## SPRING

**Internship or Study Abroad** 3 CR  
 or **Elective** <sup>[10]</sup>

LSP ###/ MHC ### <sup>[10]</sup> 3 CR  
*Select one LSP/MHC Seminar*

**LCR** 3 CR  
 Foreign Language II  
*College Option - Foreign Language*

**CHE 446** 3 CR  
 Biochemistry II Lecture

**CHE 447** 3 CR  
 Biochemistry II Lab

**PHY 169** <sup>[3]</sup> 5 CR  
 Physics II for Scientists and Engineers

Note: Additional Macaulay Requirements <sup>[9]</sup>

69 PRIOR CREDITS + 15 FALL CREDITS + 20 SPRING CREDITS = 104 CREDITS

# SENIOR

## FALL

**Senior Year Option 1 or 2** <sup>[12]</sup> 3-6 CR

LSP ###/ MHC ### <sup>[11]</sup> 3 CR  
*Select one LSP/MHC Seminar*

**LCR** 3 CR  
 Foreign Language III  
*College Option - Foreign Language*

**CHE 2## or 3## or 4##** <sup>[6]</sup> 3 CR  
 Chemistry Elective

**CHE 491** <sup>[5]</sup> or Elective 3 CR

## SPRING

**Senior Year Option 1 or 2** <sup>[12]</sup> 3-6 CR

**LCR** 3 CR  
 Foreign Language IV  
*College Option - Foreign Language*

**CHE 344** <sup>[7]</sup> 3 CR  
 Physical Chemistry course in Kinetics and Thermodynamics

**CHE 491** <sup>[5]</sup> or Elective 3 CR

104 PRIOR CREDITS + 15 FALL CREDITS + 12 SPRING CREDITS = \*120+ CREDITS

- [1] Students have the option to enroll in CHE 114 and CHE 115 with departmental permission.
- [2] No more than two courses in one discipline may be used to satisfy Flexible Core requirements.
- [3] Students have the option to enroll in PHY 166 and PHY 167.
- [4] Department consent is required to enroll in CHE 391-Chemical Investigations
- [5] Department consent is required to enroll in CHE 491; students must complete one semester of CHE 391 before requesting permission for CHE 491. One of the requirements for Departmental Honors is satisfactory completion of 3 credits in CHE 491.
- [6] Select any 200- 300- or 400- level Chemistry course, except CHE 391 and CHE 491.
- [7] Students have the option to enroll in CHE 342
- [8] Every Macaulay Honors student is required to meet with the Macaulay Honors Advisor prior to registration during their first four terms.
- [9] Every Macaulay Honors student is required to complete a minimum of 30 hours of community service by their senior year.
- [10] 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.
- [11] 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.
- [12] 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: LSP ###/ MHC ### (select one LSP/MHC seminar) and MHC 355: Research Seminar (Part 1
- Spring Semester: MHC 355: 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.

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