

# Macaulay Honors College

## MHC Computer Science, BA

Academic Plan: MHCCS-BA  
Program Code: 60202

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 Computer Science degree.

You and your advisor will use it, along with the program of study for your major (found in the [Lehman Bulletin](#) 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****43-46****Major Credits****12****Minor or Certificate Credits (recommended)****2-14****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

# FRESHMAN

<b>FALL</b>		
<b>ENG 111</b>	English Composition I <i>Required Core – Communication</i>	3 CR
<b>MHC 350</b>	The Arts in New York City Fulfills <i>Flexible Core – Creative Expression</i>	3 CR
<b>LCR</b>	<i>Flexible Core – World Cultures and Global Issues</i>	3 CR
<b>MAT 104</b> or <b>MAT 172</b> or <b>Elective</b>	(depending on your math placement)	3-4 CR
<b>CMP 167</b>	Programming Methods I Note: Macaulay Honors Advisement <sup>[5]</sup>	3 CR

<b>SPRING</b>		
<b>MHC 351</b>	The Peopling of New York City Fulfills <i>Flexible Core – US Experience in Its Diversity</i>	3 CR
<b>MAT 172 -LCR</b> or <b>Elective</b>	Pre-calculus <i>Flexible Core-Quantitative skills</i>	4 CR
<b>LSP ###/ MHC ###</b> <sup>[10]</sup>	Select one LSP/MHC Seminar	3 CR
<b>LCR</b>	<i>Required Core-Life and Physical Science</i>	3 CR
<b>CMP 168</b>	Programming Methods II	3 CR
Note: Macaulay Honors Advisement <sup>[5]</sup>		

15 FALL CREDITS + 16 SPRING CREDITS = 31 CREDITS

# SOPHOMORE

<b>FALL</b>		
<b>MHC 352</b>	Science and Technology in New York City Fulfills <i>Flexible Core – Scientific World</i>	3 CR
<b>LCR</b>	Foreign Language I <i>College Option - Foreign Language</i>	3 CR
<b>CMP 232</b>	Elementary Discrete Structures & Applications to Computer Science	4 CR
<b>MAT 175 -LCR</b>	Calculus I <i>Flexible Core – Any area</i> <sup>[1]</sup>	4 CR
<b>MAT 155</b>	Calculus Lab I	1 CR
Note: Macaulay Honors Advisement <sup>[5]</sup>		

<b>SPRING</b>		
<b>ENG 121</b>	English Composition II <i>Required Core – Communication</i>	3 CR
<b>MHC 353</b>	Shaping the Future of New York City Fulfills <i>Flexible Core – Individual and Society</i>	3 CR
<b>CMP 334</b>	Computer Organization	4 CR
<b>CMP 338</b>	Data Structures and Algorithms I	4 CR
<b>MAT 176</b>	Calculus II	4 CR
<b>MAT 156</b>	Calculus Lab II	1 CR
Note: Macaulay Honors Advisement <sup>[5]</sup>		

31 PRIOR CREDITS + 15 FALL CREDITS + 19 SPRING CREDITS = 65 CREDITS

# JUNIOR

FALL	
<b>LCR</b> Foreign Language II <i>College Option - Foreign Language</i>	3 CR
<b>LSP ###/ MHC ###</b> <sup>[8]</sup> <i>Select one LSP/MHC Seminar</i>	3 CR
<b>CMP 339 or CMP 426</b> Programming Languages or Operating Systems	4 CR
<b>MAT 313</b> Elements of Linear Algebra	4 CR
Note: Additional Macaulay Requirements <sup>[6]</sup>	

SPRING	
<b>Internship or Study Abroad</b> <b>or Elective</b> <sup>[7]</sup>	3 CR
<b>LSP ###/ MHC ###</b> <sup>[8]</sup> <i>Select one LSP/MHC Seminar</i>	3 CR
<b>LCR</b> Foreign Language III <i>College Option - Foreign Language</i>	3 CR
<b>CMP 405 or CMP 420</b> Introduction to Networks or Database Systems	3-4 CR
<b>Minor or Certificate Course I</b> <sup>[4]</sup>	3 CR
Note: Additional Macaulay Requirements <sup>[6]</sup>	

65 PRIOR CREDITS + 14 FALL CREDITS + 15 SPRING CREDITS = 94 CREDITS

# SENIOR

FALL	
<b>Senior Year Option 1 or 2</b> <sup>[9]</sup>	3-6 CR
<b>CMP 3## or CMP 4##</b> <sup>[3]</sup> Major Elective	4 CR
<b>Minor or Certificate Course II</b> <sup>[4]</sup>	3 CR
<b>Minor or Certificate Course III</b> <sup>[4]</sup>	3 CR

SPRING	
<b>Senior Year Option 1 or 2</b> <sup>[9]</sup>	3-6 CR
<b>LCR</b> Foreign Language IV <i>College Option - Foreign Language</i>	3 CR
<b>CMP 3## or CMP 4##</b> <sup>[3]</sup> Major Elective	4 CR
<b>Minor or Certificate Course IV</b> <sup>[4]</sup>	3 CR

94 PRIOR CREDITS + 13 FALL CREDITS + 13 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 351: Studies in Science & Applied Perspectives, LEH 352: Studies in Literature, 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] Two advanced CMP electives at a 300- or 400-level are required for Computer Science degree.

[4] We strongly recommend clustering 12- 15 elective credits to obtain a minor or certificate that complements your general and major field of study. The choice of the minor or certificate depends on your interest and should be coordinated with advisors. Check out more information on Minors or Certificates with your advisor.

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

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

[7] 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.

[8] 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.

[9] 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.*

See other degree maps.