# Computer Science, BA

**Academic Plan:** COMSC-BA  
**Program Code:** 80345

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.

### Credits Distribution

<table>
<thead>
<tr>
<th>Category</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CUNY Common Core Credits</td>
<td>30</td>
</tr>
<tr>
<td>Lehman College Option Credits</td>
<td>12</td>
</tr>
<tr>
<td>Major Credits</td>
<td>43-46</td>
</tr>
<tr>
<td>Minor or Certificate Credits (recommended)</td>
<td>12</td>
</tr>
<tr>
<td>Elective Credits</td>
<td>20-23</td>
</tr>
</tbody>
</table>

### Legend

- **Blue:** Lehman Core Requirement (LCR)  
  - Requirement fulfilled
- **Green:** Major Requirement
- **Gold:** Elective, Minor, or Certificate

# - see footnote  

 Underlined information is hyperlinked
**FRESHMAN**

<table>
<thead>
<tr>
<th>FALL</th>
<th>SPRING</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ENG 111</strong> English Composition I</td>
<td><strong>ENG 121</strong> English Composition II</td>
</tr>
<tr>
<td><em>Required Core – Communication</em></td>
<td><em>Required Core – Communication</em></td>
</tr>
<tr>
<td><strong>LCR</strong> Flexible Core – World Cultures and Global Issues</td>
<td><strong>MAT 12</strong> -LCR or Elective Pre-calculus Flexible Core – Quantitative skills</td>
</tr>
<tr>
<td><strong>MAT 104</strong> or <strong>MAT 172</strong> or Elective (depending on your math placement)</td>
<td><strong>LCR</strong> Required Core – Scientific World</td>
</tr>
<tr>
<td><strong>CMP 167</strong> Programming Methods I</td>
<td><strong>LCR</strong> Flexible Core – US Experience in Its Diversity</td>
</tr>
<tr>
<td>Elective</td>
<td><strong>CMP 168</strong> Programming Methods II</td>
</tr>
<tr>
<td><strong>LEH 100</strong> (recommended) The Liberal Arts - Freshman Seminar</td>
<td></td>
</tr>
<tr>
<td><strong>FALL CREDITS + 16 SPRING CREDITS = 31 CREDITS</strong></td>
<td><strong>31 PRIOR CREDITS + 15 FALL CREDITS + 16 SPRING CREDITS = 62 CREDITS</strong></td>
</tr>
</tbody>
</table>

**SOPHOMORE**

<table>
<thead>
<tr>
<th>FALL</th>
<th>SPRING</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LCR</strong> Foreign Language I Lehman College Option</td>
<td><strong>LCR</strong> Foreign Language II Lehman College Option</td>
</tr>
<tr>
<td><strong>LCR</strong> Flexible Core – Individual and Society</td>
<td><strong>CMP 334</strong> Computer Organization</td>
</tr>
<tr>
<td><strong>CMP 232</strong> Elementary Discrete Structures &amp; Applications to Computer Science</td>
<td><strong>CMP 338</strong> Data Structures and Algorithms I</td>
</tr>
<tr>
<td><strong>MAT 175</strong> -LCR Calculus I Flexible Core – Any area <strong>[1]</strong></td>
<td><strong>MAT 176</strong> Calculus II</td>
</tr>
<tr>
<td><strong>MAT 155</strong> Calculus Lab I</td>
<td><strong>MAT 156</strong> Calculus Lab II</td>
</tr>
</tbody>
</table>

**31 PRIOR CREDITS + 15 FALL CREDITS + 16 SPRING CREDITS = 62 CREDITS**
### FALL
- **LCR**: 3 CR
- **LEH 352, 353, 354, or 355**[^2]  
  *Lehman College Option*
- **CMP 339** or **CMP 426**: 4 CR  
  Programming Languages or Operating Systems
- **MAT 313**: 4 CR  
  Elements of Linear Algebra
- Minor or Certificate Course I[^4]: 3 CR

### SPRING
- **LCR**: 3 CR
- **LEH 352, 353, 354, or 355**[^2]  
  *Lehman College Option*
- **LCR**: 3 CR  
  *Required Core: Life and Physical Science*
- **CMP 405** or **CMP 420**: 3-4 CR  
  Introduction to Networks or Database Systems
- Elective: 3 CR
- Minor or Certificate Course II[^4]: 3 CR

#### Minor or Certificate Course I
- **62 PRIOR CREDITS + 14 FALL CREDITS + 15 SPRING CREDITS = 91 CREDITS**

### FALL
- **CMP 3##** or **CMP 4##[^3]**: 4 CR  
  Major Elective
- Minor or Certificate Course III[^4]: 3 CR
- Minor or Certificate Course IV[^4]: 3 CR
- Elective: 3 CR
- Elective: 3 CR

### SPRING
- **CMP 3##** or **CMP 4##[^3]**: 4 CR  
  Major Elective
- **LCR**: 3 CR  
  *Flexible Core: Creative Expression*
- Elective: 3 CR
- Elective: 3 CR

#### Minor or Certificate Course II
- **91 PRIOR CREDITS + 16 FALL CREDITS + 13 SPRING CREDITS = 120 CREDITS**
[1] No more than two courses in one discipline may be used to satisfy Flexible Core requirements.


[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.

**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.