**Bachelor of Science -- Computational Emphasis**

**PREPARATORY Subject Matter: 60 units**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Philosophy 10/Cognitive Science 1</td>
<td>/</td>
<td>Math 17A-B* or Math 21A-B*</td>
</tr>
<tr>
<td>Psychology 1/Psychology 1Y</td>
<td>*MAT 17C/21C required to take MAT 22A&amp;AL</td>
<td>ECS 32A or ECS 36A</td>
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<tr>
<td>Psychology 41</td>
<td>/</td>
<td>Math 22A &amp; 22AL</td>
</tr>
<tr>
<td>Statistics 13 or 100</td>
<td>Philosophy 12</td>
<td>ECS 20</td>
</tr>
<tr>
<td>Linguistics 1/Linguistics 1Y</td>
<td>Philosophy 13G</td>
<td>ECS 34 or ECS 36C</td>
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**DEPTH Subject Matter: 48 units**

- **Group A—Core Classes Complete All [12 units]**
  - Any Upper Division Cognitive Science Course – see back of sheet
  - ECS 140A: Programming Languages
  - PHI 112: Intermediate Symbolic Logic

- **Group B: Computation Complete 3 Courses [12 units]**
  - LIN 177: Computational Linguistics
  - PHI 133: Logic, Probability, and Artificial Intelligence
  - ECS 120: Theory of Computation
  - ECS 170: Introduction to Artificial Intelligence
  - ECS 171: Machine Learning

- **Complete ONE course from Group C and ONE course from Group D [8 units]**
  - **Group C: Neuroscience**
    - LIN 175: Biological Basis of Language
    - PSC 101: Biological Psychology
    - PSC 135: Cognitive Neuroscience
  - **Group D: Philosophy/Linguistics**
    - PHI 103: Philosophy of Mind
    - PHI 104: The Evolution of Mind
    - PHI 129: Knowledge and the A Priori
    - PHI 136: Formal Epistemology
    - LIN 103A: Linguistics Analysis I
    - LIN 103B: Linguistics Analysis II
    - LIN 150: Languages of the World

- **Complete 4 courses from Group E* [16 units]**
  - **Group E: Psychology**
    - PSC 100/100Y: Intro to Cognitive Psych
    - PSC 101: Biological Psychology
    - PSC 103A: Statistical Analysis I
    - PSC 103B: Statistical Analysis II
    - PSC 113: Developmental Psychobiology
    - PSC 121: Physiological Psychology
    - PSC 124: Comparative Neuroanatomy
    - PSC 130: Human Learning and Memory
    - PSC 131: Perception
    - PSC 137: Neurobiology of Learning and Memory
    - PSC 140: Developmental Psychology
    - PSC 141: Cognitive Development

  *Psychology 101 can be used only for Group C **OR** Group E, not both.

Effective starting Fall 2018