



Bachelor of Science -- Computational Emphasis

PREPARATORY Subject Matter: 60 units

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|--------------------------------------------|------------------------------------------|--------------------------------|
| ___ Philosophy 10/CGS 1 | ___/___ Math 17A-B* or Math 21A-B* | ___ ECS 20* |
| ___ Psychology 1/Psychology 1Y | *MAT 17C/21C required to take MAT 22A&AL | ___ ECS 50^ |
| ___ Psychology 41 | ___/___ Math 22A & 22AL | ___/___/___ ECS 32A & 32B & 34 |
| ✓ Statistics 13 (13V) or 100 | ___ Philosophy 12 | OR ECS 36A & 36B & 36C |
| ___ Linguistics 1/Linguistics 1Y | ___ Philosophy 13G | |

DEPTH Subject Matter: 48 units

- **Group A—Core Classes *Complete All* [12 units]**

- ✓ **Any Upper Division Cognitive Science Course**
- ___ ECS 140A: Programming Languages
- ___ PHI 112: Intermediate Symbolic Logic
- ___ 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

*ECS 20 can be taken simultaneously with ECS 32B, 34, or 36B – but before 36C.

^ECS 50 can be taken with ECS 20 or after ECS 32B, 36B, or 36C.

• The ECS 36ABC series is intended for Computer science double majors
ECS 10 WILL be accepted in lieu of ECS 32A
**Former courses: 30, 40, 60 will also be accepted

- **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
- ___ CGS 107: Neuroeconomics & Decision Making
- ___ PSC 135: Cognitive Neuroscience
- ___ PSC 139: Advanced Cognitive Neuroscience

Group D: Philosophy/Linguistics

- ___ PHI 103: Philosophy of Mind
- ___ PHI 104: The Evolution of Mind
- ___ PHI 129: Knowledge & the A Priori
- ___ PHI 136: Formal Epistemology
- ___ LIN 103A: Linguistics Analysis I
- ___ LIN 103B: Linguistics Analysis II
- ___ LIN 150: Languages of the World
- ___ LIN 182: Multilingualism

- **Complete 4 courses from Group E* [16 units]**

Group E: Psychology

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| ___ <u>PSC 100/100Y</u> : Intro to Cognitive Psych | ___ <u>PSC 124</u> : Comparative Neuroanatomy |
| ___ <u>PSC 101*</u> : Biological Psychology | ___ <u>PSC 130</u> : Human Learning and Memory |
| ___ <u>PSC 103A</u> : Statistical Analysis I | ___ <u>PSC 131</u> : Perception |
| ___ <u>PSC 103B</u> : Statistical Analysis II | ___ <u>PSC 137</u> : Neurobiology of Learning and Memory |
| ___ <u>PSC 113</u> : Developmental Psychobiology | ___ <u>PSC 140</u> : Developmental Psychology |
| ___ <u>PSC 121</u> : Physiological Psychology | ___ <u>PSC 141</u> : Cognitive Development |

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