Santa Clara University
COLLEGE OF ARTS & SCIENCES
Requirement Check Sheet for Neuroscience Majors

Students are personally responsible for knowing all academic regulations affecting their program of study and for completing all degree requirements as set forth by the University, their College or School, and academic department(s). Failure to understand these regulations and requirements does not relieve a student from responsibility. (Undergraduate Bulletin)

NAME_____________________________________
STUDENT ID________________________________
EXPECTED GRADUATION DATE_________________
EMAIL ADDRESS____________________________

University Core Requirements (2009)

Foundations
Critical Thinking and Writing 1 ___
Critical Thinking and Writing 2 ___
(will be automatically enrolled in same section after completion of CT&W 1)
Cultures and Ideas1 ___
Cultures and Ideas 2 ___
(automatically enrolled in same section after completion of C&I 1)
Religion, Theology, and Culture 1 ___
Second Language ___
(complete 2nd introductory level or equivalent by proficiency exam)
Mathematics ___ (MATH 35/11)

Explorations
Ethics ___ (PHIL 32)
Civic Engagement ___
Diversity ___
Arts ___
Natural Science w/ Lab ___ (CHEM 11)
Social Science ___ (PSYC 1)
Religion, Theology, and Culture 2 ___
Religion, Theology, and Culture 3 ___
(after 88 units)

Science, Technology, and Society ___ (NEUR 1)
Cultures & Ideas 3 ___

Integrations
Experiential Learning for Social Justice ___*
Advanced Writing ___*
Pathway Title:___________________________
Pathway Course 1_______________________ ___
Pathway Course 2_______________________ ___
Pathway Course 3_______________________ ___
Pathway Course 4_______________________ ___

Neuroscience Major Requirements
Lower Division: Introductory Classes
NEUR 1 ___
BIOL 1A L&L ___
BIOL 1B L&L ___
BIOL 1C L&L ___
CHEM 11 L&L ___
CHEM 12 L&L ___
CHEM 31 L&L ___
CHEM 32 L&L ___
CHEM 33 L&L ___
PHIL 32 (recommended) ___
PSYC 1 ___

Math, Statistics & Methods
MATH 35 (or 11) ___
MATH 36 (or 12 or CSCI 10) ___
NEUR 10 L&L ___
BIOL 160 (ENVS 110) L&L ___

Upper Division:
NEUR 150 ___
NEUR 190 ___
BIOL 122 L&L ___
PSYC 165 ___
PSYC 169 ___

Four additional UD classes, at least one course from each of the following lists:
1. Biology L&L ___One course
   (BIOL 110, 112, 120, 123, 124, 165, 172, 174, 175, 178)

2. Additional Natural Science Elective ___One course
   (BIOL L&L above, or 119, 123A, 124, 171, CHEM 141, CSCI 168)

3. Psychology Elective ___One course
   (PSYC 120, 130, 138, 166, 167, 196)

4. Additional Social Science Elective ___One course
   (NEUR 185, PSYC above or COMM 113, PHIL 113, 117)

REQUIRED CLASSES:

Note: Physics 11, 12 and 13 is recommended for all neuroscience majors. Talk to your advisor.

*Can overlap with other Core or a Major requirement.
L&L = lecture and lab
FOUR ADDITIONAL UD CLASSES

1. Biology Lecture & Lab
   BIOL 10: Genetics L & L
   BIOL 112: Immunology L & L
   BIOL 120: Animal Physiology L & L
   BIOL 123: Neurodevelopment L & L
   BIOL 124: Human Physiology L & L
   BIOL 165: Animal Behavior L & L
   BIOL 172: Molecular Modeling L & L
   BIOL 174: Cell Biology L & L
   BIOL 175: Molecular Biology L & L
   BIOL 178: Bioinformatics L & L

2. Psychology Electives:
   PSYC 120: Sensation and Perception
   PSYC 130: Psychology of Learning
   PSYC 138: Human Memory
   PSYC 166: Human Neuropsychology
   PSYC 167: Psychopharmacology
   PSYC 196EL: Psychology of Aging

3. Social Science Electives:
   Additional Psychology course above or
   COMM 113: Communication, The Body, and Health
   NEUR 185: Developmental Neuro for Human Behavior
   PHIL 113: Ethics & Constitutional Law
   PHIL 117: Bioethics & the Law

BIOLOGY
BIOL 1A: Energy and Matter L & L
BIOL 1B: Information and Evolution L&L
BIOL 1C: System L & L

BIOL160: Biostatistics L & L
BIOL 122: Neurobiology L & L

CHEMISTRY
CHEM 11: General Chemistry I L & L
CHEM 12: General Chemistry II L & L
CHEM 31: Organic Chemistry I L & L
CHEM 32: Organic Chemistry II L & L
CHEM 33: Organic Chemistry III L & L

MATH
MATH 35: Calculus for Life Sciences I or Math 11
MATH 36: Calculus for Life Sciences II or Math 12

PHIL
Philosophy 32: Neuroethics (recommended)

PSYCHOLOGY
PSYC 1: General Psychology I
PSYC 165: Behavioral Sciences
PSYC 169: Cognitive Neuroscience