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_____

University Core Requirements (2009)

Foundations

Critical Thinking and Writing 1	
Critical Thinking and Writing 2	
(will be automatically enrolled in same section	n after completion of
CT&W 1)	
Cultures and Ideas1	
Cultures and Ideas 2	
(automatically enrolled in same section after c	ompletion of C&I 1)
Religion, Theology, and Culture 1	
Second Language	
(complete 2nd introductory level or equivalent	t 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)	
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	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	

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

EXPECTED GRADUATION DATE_	
EMAIL ADDRESS	

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 <i>L&L</i>	
BIOL 160 (ENVS 110) L&L	

Upper Division:

NEUR 150	
NEUR 190	
BIOL 122 <i>L&L</i>	
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:

FOUR ADDITIONAL UD CLASSES

NEUR 1: Introduction to Neuroscience NEUR10: Explorations in Neuroscience L & L NEUR 150: Neuroscience Research Seminar NEUR 190: Neuroscience Capstone

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 l L & L CHEM 12: General Chemistry ll L & L CHEM 31: Organic Chemistry lL & L CHEM 32: Organic Chemistry ll L & L CHEM 33: Organic Chemistry lll 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 1 PSYC 165: Behavioral Sciences PSYC 169: Cognitive Neuroscience

1. Biology Lecture & Lab

BIOL 110: 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

1. Natural Science Electives:

Additional BIOL L&L above BIO 119: Biology of Stress BIOL 112: Immunology L & L BIOL 123A: Neurodevelopment - Lecture BIOL 124 Human Physiology L & L BIOL 171: Social/ Ethical Dimensions L & L CHEM 141: Biochemistry I CSCI 168: Computer Graphics

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