

Student Name \_\_\_\_\_

Declared Neuroscience (If yes, when)? \_\_\_\_\_

Primary Major \_\_\_\_\_

Planned graduation semester and year \_\_\_\_\_

Plans to go abroad (if yes, when)? \_\_\_\_\_

**To graduate with a degree in Neuroscience you MUST:**

- **EARN A MINIMUM GRADE OF B- IN BOTH BIO 211 AND PSY 223**
- **HAVE A CUMULATIVE GPA OF 3.0 FOR THE FULL 24 CREDIT HOURS**

**Course Requirements (24 credit hours):**

Semester/Year Planned	Course	Credits	Offered	Prerequisites
	BIO/NEU 211-Introduction to Neuroscience	3	F,SP	None
	PSY /NEU 223-Intro to Cognitive Neuroscience	3	F, SP	PSY 205 or 209
	PSY/NEU 322-Cognitive Psychology <b>OR</b> COG/NEU 301-Intro to Cognitive Science	3	F,SP F (Annually)	PSY 205 or 209
	CSD/NEU 409-Cognitive Neuroscience of Speech & Language	3	<b>SPRING ONLY</b>	None
	BIO/NEU 407-Advanced Neuroscience	3	<b>SPRING ONLY</b>	BIO/NEU 211, PSY/NEU 223
	PSY/NEU 496-Neuroscience in the Arts, the Sciences & Society	3	<b>FALL ONLY</b>	BIO/NEU 211, PSY/NEU 223 Ideally, all other required entry and core courses Seniors given priority
Choose 2 elective courses from the list below that have the SAME PREFIX (e.g. both CSD) but are OUTSIDE your primary major (e.g. if you are a BIO major the electives can not be BIO classes)				
		3		
		3		

**Electives(Continued on next page)**

<b>BIOLOGY</b>	BIO 326-Genetics	SP	BIO 121 & 123, CHE 106
	BIO 327-Cell Biology	F	BIO 121 & 123, CHE 106
	BIO 437-Developmental Neuroscience	F	BIO 326, 327
	BIO 417-Animal Behavior & Evolutionary Biology Lab	F	BIO 345 or permission
	BIO 444 Neurotoxicology	F or S	BIO 211
	BIO 443- Epigenetic Regulation of Gene Expression	F or S	BIO 326 and 327
	BIO 416 Biology of Aging	F or S	BIO 327 or 355
	**BIO 414 Biology of Adaptive Behaviors	F or S	BIO 326 or 327 or 355
<b>CSD</b>	CSD 315-Anatomy & Physiology of Speech & Hearing	F or SP	CSD 212
	CSD 325-Fundamentals of Hearing Science	F or SP	CSD 212
	CSD 345- Speech Science	F or SP	CSD 212
	CSD 422-Development of Speech & Language	F or SP	
	CSD 429-Basic Clinical Audiology	F or SP	

<b>Linguistics</b>	LIN 301-Introductory Linguistic Analysis	F or SP	LIN 201
	LIN 431-Phonological Analysis	F or SP	LIN 301
	LIN 441-Syntactic Analysis	F or SP	LIN 301
	LIN 451-Morphological Analysis	F or SP	LIN 301
	LIN 491-Universal Grammar & Second Language Acquisition	F or SP	LIN 441
	LIN 571-Topics in Sociolinguistics	Upon sufficient interest	
<b>Mathematics</b>	MAT 331 – First Course in Linear Algebra	F or SP	MAT 286 or 296
	MAT 397-Calculus III	F or SP	MAT 296 with minimum grade C-
	MAT 485-Differential Equations & Matrix Algebra for Engineers	F or SP	MAT 397
	**MAT 521-Introduction to Probability & Statistics	F or SP	MAT 397
<b>Philosophy</b>	PHI 375 – Philosophy of Biology: What Can Evolution Explain?	Irregularly	Any PHI or at least junior standing
	PHI 378-Minds & Machines	F or SP	Any PHI or at least junior standing
	PHI 373-Introduction to the Philosophy of Science	Irregularly	Any PHI or at least junior standing
	PHI 377-Philosophy of Psychology	Irregularly	Any PHI or at least junior standing
	**PHI 376-Philosophy of Mind	Irregularly	Any PHI or at least Sophomore standing
	**PHI 576 – Philosophy of Mind	Irregularly	PHI 301,376,377 or 378 or graduate standing
<b>Physics</b>	PHY 307-Science & Computers I	F or SP	Coreq PHY 211 or PHY 215
	PHY 308-Science & Computers II	Irregularly	PHY 307
	PHY 315-Biological & Medical Physics	F or SP	PHY 212 or 216
	PHY 360-Vibrations, Waves & Optics	F or SP	PHY 212 or 216
	**PHY 424-Electromagnetics	F or SP	Pre-req PHY 212 or PHY 216 and MAT 397
		PHY 444-Soft Matter	Irregularly
	PHY 531-Thermodynamics & Statistical Mechanics	F or SP	PHY 361
<b>Psychology</b>	PSY 315-Drugs & Human Behavior	F/ SP	PSY 205 or 209
	PSY 321-Sensation & Perception	F (odd years)	PSY 205 or 209
	PSY 331 – Laboratory in Sensation and Perception	F (odd years)	PSY 205 or 209; Coreq: PSY 321
	PSY 323-Brain & Behavior	Irregularly	PSY 205 or 209
	PSY 324-Developmental Biopsychology	F or SP	PSY 205 or 209
	PSY 334 – Developmental Biopsychology Lab	F or SP	PSY 205 or 209; Coreq: PSY 324
	PSY 332- Laboratory in Cognitive Psychology	F or SP	PSY 205 or 209; Coreq: PSY 322
	PSY 373-Human Memory	Irregularly	PSY 205 or 209; PSY 322
	PSY 382-Health Psychology	Yearly	PSY 205 or 209
	PSY 392-Stress & Health	Irregularly	PSY 205 or 209
	PSY 426-Cognitive Neurochemistry	F (even years)	PSY 205 or 209
	PSY 437-Cognition & Aging	Irregularly	PSY 205 or 209
	PSY 395 Abnormal Psychology	F/ SP	PSY 205 or 209
<b>Biomedical &amp; Chemical Engineering</b>	BEN 364-Quantitative Physiology	F or SP	BEN 301
	BEN 458-Biomedical Imaging	F or SP	
<b>Engineering &amp; Computer Sciences</b>	ELE 351-System & Signal Analysis	F or SP	ELE 232 and MAT 296
	ELE 352-Digital Signal Processing	F or SP	ELE 351

\*\* Course has been submitted to college and state for inclusion as elective in major- not yet approved but we will accept via petition.

\*We will work with departments and colleges other than those listed above to facilitate the integration of the ILM in Neuroscience into any major. If you are student in a major not listed above, please contact Dr. Kate Lewis ([kelewi02@syr.edu](mailto:kelewi02@syr.edu))

Substitutions to courses above can be submitted as petitions to the ILM committee on an individual basis. Petitions should be brought to Dr. Robin Jones via appointment ([rljone02@syr.edu](mailto:rljone02@syr.edu))