

Note: THIS IS NOT AN OFFICIAL CHECKLIST – the official checklist is provided under your “my.neu” page (self service/my degree audit), and is also referred to as a “DARS” audit.

Below is a possible sequence of courses that a BNS student might take. This is not your “personal curriculum”—yours will probably differ. Most students have different AP placements, transfer credits etc., and we as BNS advisors will *help you to tailor your schedule* to suit your educational goals. This example thus illustrates just one possible way to structure a 4-year curriculum. This sample curriculum is “front-end” loaded with requirements, but you might prefer to move electives up (i.e. take them earlier on) by moving certain BNS requirements back. This example is conservative in that it schedules your *required courses* as early as possible in this suggested 4-year sequence.

<u>Year 1 -- Fall</u>	<u>SH</u>	<u>Year 1 – Spring</u>	<u>SH</u>
PSYU101 - Introductory Psychology	4	ENGU111 -- English	4
MTHU151 -- Calculus 1	4	MTHU152 – Calculus 2	4
BIOU101 -- Principles of Biology I	4	BIOU103 – Principles of Biology II	4
BIOU102 -- Lab for Bio I	1	BIOU104 – Lab for Bio II	1
CHMU211 – General Chemistry I + lab, recitation (212,213)	5	CHMU214 – General Chemistry II + lab, recitation (215,216)	5
PSYU100 Introduction to College	<u>1</u>		18
	19		

<u>Year 2 -- Fall</u>	<u>SH</u>	<u>Year 2 – Spring</u>	<u>SH</u>
Psychobiology or Neurobiology	4	PSYU320 -- Statistics in P.R.	4
CHMU311 – Organic Chemistry I	4	CHMU313 – Organic Chemistry II	4
CHMU312 – Organic Chem. Lab	1	CHMU314 – Organic Chem. Lab	1
Advance Biology Elective A	4	BIOU301 – Genetics & Molec. Bio.	4
Biology Elective A Lab	1	BIOU302 – Genetics Lab	1
core course #1	<u>4</u>	Advanced Psychology Elective A	<u>4</u>
	18		18

<u>Year 3 -- Fall</u>	<u>SH</u>	<u>Year 3 – Spring</u>	<u>SH</u>
Advanced Psychology Elective B	4	BNS Seminar Course	4
Advanced Biology Elective B	4	Advanced Biology Elective C	4
Biol. Elective B Lab (if offered)	1	Biol. Elective Lab C (if offered)	1
ENGU301 Adv. Writing in Discipline	4	BNS Laboratory Course	4
core course #2	<u>4</u>	Directed Study I (if elected)	<u>4</u>
	17		17

<u>Year 4 -- Fall</u>	<u>SH</u>	<u>Year 4 – Spring</u>	<u>SH</u>
Directed Study II (if elected)	4	free elective	4
core course #3	4	free elective	4
free elective	4	free elective	4
free elective	<u>4</u>	free elective	<u>4</u>
	16		16

Total Credits: 138

Sample Curriculum Notes:

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1. Completing two *Directed Studies* in one lab, is just **one way** to satisfy the experiential education option (via option #3). This option is done in consultation/approval with the Asst. Director of the BNS program (currently Prof. Joseph Ayers) and requires a written report. Formal 6-month Coops remain the most common option to fulfill the Experiential Education requirement and for that option Directed Studies are not required.
2. We will soon be providing “sample sequences” for students on coop cycles, once we get a better list of anticipated course offerings in upcoming years (which may also influence this schedule). These Coop schedules will nonetheless follow a similar temporal order as shown here.
3. Some Advanced Biology courses in the B & C areas do not have labs, and so total credits could be less than the 138 total shown; 138 credits is sufficient for graduation, but it is important to go thru the junior and senior clearance processes with CAS. That, in conjunction with the DARS (or my.NEU) audit, **is the only official way** to confirm your completion of the BNS degree requirements.
4. Pre-Med students need to take 1 year of Physics and should consult with the NU Pre-Med advisor on this and other pre-med issues; currently Prof. Dan Scheirer at daniels@neu.edu.

BNS Concentrations: Flexible Tracks

Below are three tracks (course concentrations) for students wishing to focus within a subdiscipline of Behavioral Neuroscience. Choosing and following a “track” is entirely optional—the BNS requirements proper remain unchanged. These *flexible tracks* begin with a level 2 (L2) requirement and then go through the next 7 categories of BNS requirements, identifying courses that would constitute a focus. The final 3 courses in each track list (indicated by “x”) are courses that you would take as free electives and they would further strengthen your knowledge-base within the track. While these tracks are currently “unofficial”, we plan to note these accomplishments on your unofficial departmental BNS certificates, and may subsequently offer more substantive documentation of BNS track completion. We expect that course availability and student interest may lead to a need for course substitutions. In such cases you should consult with a BNS faculty advisor.

	<u>Cognitive/Psychological</u>	<u>Neural Systems/Behavioral</u>	<u>Molecular/Pharmacological</u>
L2	Psychobiology*	Neurobiology*	Psycho or Neurobiology
PA	Developmental Psych.	Developmental Psych.	Biol. Basis of Mental Illness
PB	Cognition	Sensation and Perception	Psychopharmacology
BA	Animal Physiology	Animal Physiology	Regulatory Cell Biology
BB	Animal Behavior	Neuroethology	Comparative Neurobiology
BC	Biological Imaging	Biology of Muscle	Biochemistry
Sem	Linguistics or Cognition	Sem. in Behav. Modif.	Adv. Topics in Biochem/C/M
Lab	Lab in Psycholinguistics	Lab in Sens. & Perception	Biochemistry Methods Lab
x	Psychopharmacology	Animal Behav. or Sociobiol.	Developmental Biology
x	Seminar in Psychobiology	Evolution	Embryonic Stem Cells or MCB
x	Neuropsychology	Comparative Neurobiology	Lab in Psychobiology

L2 = Level 2 option (either Psychobiology or Neurobiology is required)

PA, PB = Psychology Area A or B;

BA, BB, BC = Biology Areas A, B or C

Sem = Seminar Course; Lab = Laboratory Course, x = Free Elective

*Note that some students find it helpful to take both level 2 options (Psychobiology *and* Neurobiology, often in that order) and while this would use up one free elective, some students feel this provides them with a better foundation for higher level studies within the major. Some other highly recommended courses, independent of these tracks, are *Comparative Neurobiology* and *Psychopharmacology*.