

Academics

First Year Summer Session Courses:

NESC 997 Non-topical research/lab rotation 6 non-topical credits

First Year Fall Semester Courses:

All first year students are expected to enroll in the following classes:

BIMS 812	Cell Structure & Function	5 credits
NESC 703	Neurobiology	5 credits
NESC 801	Neuroscience Seminar	2 credits
	this includes the required seminar preview	
NESC 808	Student Seminar	1 credit
NESC 815	Intro to Research/lab rotation	2 credits
Total Fall Semester Credits		15 topical credits

First Year Spring Semester Courses:

NESC 706	Fundamentals of Neuroscience	5 credits
	Be aware that this class starts on January 3 rd , not the 17 th .	
	http://www.healthsystem.virginia.edu/internet/ome/sched/home.cfm	
NESC 802	Neuroscience Seminar	2 credits
	this includes the required seminar preview	
NESC 808	Student Seminar	1 credit
NESC 816	Intro to Research/lab rotation	2 credits
	and, if offered	
NESC 720	Behavioral & Cognitive Neuroscience	3 credits
	(offered every other spring semester, Spring 2007)	

or 2 of the following

NESC 825	Current Topics in Nesc I	2 credits
NESC 830	Current Topics in Nesc II	2 credits
NESC 845	Current Topics in Nesc III	2 credits
Total Spring Semester Topical Credits		13/14 topical credits

Total First year credits for student should be 28 or 29 credits

Students should be thinking about selecting a mentor from their lab rotations. This decision should be made by the end of April and the BIMS form turned into the NGP-BIMS program coordinator, Tracy Mourton.

Second Year-

Now that a lab has been selected, begin to think about area paper topics!!!!!!

Second Year Fall Semester Courses:

All second year students are expected to enroll in the following classes:

NESC 801	Neuroscience Seminar	2 credits
	this includes the required seminar preview	
NESC 808	Student Seminar	1 credit
NESC 815	Intro to Research/Lab Research	2 credits

All second year students are expected to choose between the following:

Current Topics I	up to 4 credits
Current Topics II	up to 4 credits
Current Topics III (See titles below)	up to 4 credits

and/or

Approved Elective or Electives
(see examples below)

Must have at least 9 credits for full-time status but recommend at least 13

Second Year Spring Semester Courses:

All second year students are expected to enroll in the following classes:

STAT 500	Intro to Appl. Statistics	4 credits
BIMS 710	Research Ethics	1 credit
NESC 802	Neuroscience Seminar	2 credits
	this includes the required seminar preview	
NESC 808	Student Seminar	1 credit
NESC 816	Intro to Research /Lab Research	2 credits
	and, if offered	
NESC 720	Behavioral & Cognitive Neuroscience	3 credits
	(offered every other spring semester, Spring 2007)	

or	Current Topics I	up to 4 credits
	Current Topics II	up to 4 credits
	Current Topics III	up to 4 credits
	(See titles below)	

or
Approved Elective or Electives
(see examples below)

Total credits for the first two years must equal **54 hrs.**

******** At the end of the 2nd year, all students must have at least **54 topical credits** to qualify for advancement and to meet GSAS requirements. When choosing classes in the second year, please be aware of this very important requirement.

Electives

Current Topics in Neuroscience-each course is 2 credit hours

Fall semester mini-courses

- NESC I -Synaptic Development & Plasticity Condrón, Zhu, Erisir
- NESC II- Ion Channel Modulation Bayliss and Barrett
- NESC II-Neurobiology of Nociception Todorovic
- NESC III-Cell biology of the Neuron Winckler

Spring semester mini-courses

- NESC I- Stem Cells and Neural Regeneration Zeitlin
- NESC II- Motor Neuron Development Liu
- NESC II-Methuselah's Brain Scrable and Bennett
- NESC III- Gene knockout/down in neural cells Mandell and Hussaini
- NESC III- Channelopathies Patel and Perez-Reyes

Possible topics for mini-courses

- Development and Regulation of the Neuromuscular Junction
- Translational Research and Neuroscience
- The Blue Collar Brain: Emerging View of Neuroendocrine Circuits from Electrophysiology

These topics and when they are offered can change every year. They will be updated on the NGP website so that there is always a current list.

Possible Electives-The courses listed below are just a small sampling of the courses available as potential electives. Please see the websites listed for descriptions of other courses that might be appropriate for your particular learning focus. Please seek approval from Mary Kate Worden, Barry Condrón or Sue Moentor before choosing any elective.

Fall courses

BIMS 809-Cell Imaging	Macara
BIMS 811-Gene Structure & Expression	Engle
BIOC 503-Biochemistry	Pearson
NESC 851-Directed Readings in Neuroscience	
PHY 862- Neurophysiology	Hackett
PHY 813-Structure and Function of Membrane Proteins	Nakamoto
PHY 506-Exp. Approaches in Mol and Cell Biophysics	Perozo

Spring courses

BIOL508/CELL508 Developmental Biology/Mechanisms	Desimone
NESC 851- Directed Readings in Neuroscience	
BIMS 832- Graduate Physiology	
PSYC 521- Psychobiology	

NESC- <http://www.virginia.edu/registrar/records/gradrec/chapter5/chapter5-37.htm>

BIMS- <http://www.virginia.edu/registrar/records/gradrec/chapter5/chapter5-18.htm>

PSYC- <http://www.virginia.edu/registrar/records/gradrec/chapter5/chapter5-42.htm>

PHY- <http://www.virginia.edu/registrar/records/gradrec/chapter5/chapter5-35.htm>

BIOL- <http://www.virginia.edu/registrar/records/gradrec/chapter5/chapter5-16.htm>

CELL- <http://www.virginia.edu/registrar/records/gradrec/chapter5/chapter5-21.htm>

BIOC- <http://www.virginia.edu/registrar/records/gradrec/chapter5/chapter5-14.htm>

Second Year Summer Session-Training Grant/ NRSA/VISA students only:
NESC 997 Non-topical research/lab rotation 6 non-topical credits

Third Year & Beyond

Third Year +: Fall and Spring Semesters: one of the following

NESC 997 Non-topical research- only if have NOT defended area paper
NESC 999 Non-topical research 12 non-topical credits

**Summer Sessions- register only if you are one of the following:
Graduating Students**/TG/ NRSA/VISA students**

NESC 997 Non-topical research-only if have NOT defended area paper
NESC 999 Non-topical research 6 non-topical credits

**Graduating students should see the program administrator for registration instructions.

*****Note:** Even though you do not formally register for the Neuroscience Seminar Series in these years, attendance is required of all students.

Key Dates

Please note that these are the latest dates on which these milestones are to be completed. It is recommended that you achieve these before these deadlines.

2nd year

Fall Semester Organize advisory committee for area paper

Spring/Summer Submit area paper title and outline to committee

3rd year

November 20 Last date to defend area paper

4th year

Fall Semester First dissertation proposal and defense meeting
(meet once a semester thereafter)

5th year and beyond

Dissertation defense

Registering For Classes

Upon acceptance into the program, instructions for the Integrated Student Information System (ISIS) will be sent to each student. ISIS is the online system used to register for classes, update contact information and print unofficial transcripts. Registration for the very first semester of coursework must be done in person during orientation. After that, the next section applies to all students.

Fall & Spring Semesters – A two-step process

Pre-Registration

After receiving access to the course enrollment functions, connect to ISIS at www.virginia.edu/isis. This allows use of the drop/add and change functions during regular ISIS hours until the first day of final registration. Once final registration has begun, access to the course enrollment functions is restricted to those students who have completed final registration. The Program Coordinator will pre-register all eligible students for classes.

Final Registration

ISIS must be accessed in August to activate the final registration function and verify student status (although drop/add can continue through GSAS deadlines). Please go online and click on "Final Registration". If you have any questions about this process, please contact a more senior student. Final registration must be done by the student; the Program Coordinator cannot do this. **Failure to complete this step by the deadline will result in the student being dropped from all courses and their I.D. card being deactivated.**

Late Registration

Please be sure to meet all registration deadlines. There can be fines for late registration. If unable to Final Register because of a "block", please let the Program Coordinator know this immediately. Outstanding fees, such as library fines, need to be taken care of before you can complete registration.

Summer Session Registration

In early May, the Program Coordinator will contact each student with instructions regarding Summer Session and the registration process. Typically, the only students that register for summer session are those that have NRSA's, been appointed to a training grant or have an international visa that requires registration to maintain student status.