NEUROSCIENCE - B.S.

College of Arts and Sciences

Department of Psychological Sciences Department of Biological Sciences https://www.kent.edu/neuroscience/bs

About This Program

The Bachelor of Science in Neuroscience combines biology, chemistry, psychology and other disciplines to provide you with a comprehensive understanding of the nervous system. Together with our Neuroscience faculty, you will gain the advanced skills and knowledge needed to pursue careers in health professions, research or science communication. Read more...

Contact Information

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- · Speak with an Advisor
- · Chat with an Admissions Counselor

Program Delivery

- · Delivery:
 - · In person
- · Location:
 - Kent Campus

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college

or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements Major Requirements

Code	Title	Credit Hours
Major Requirements	s (courses count in major GPA)	
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
BSCI 30140	CELL BIOLOGY	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 40600	WRITING IN THE BIOLOGICAL SCIENCES (WIC) 1	1
or PSYC 41901	WRITING IN PSYCHOLOGY (WIC)	
or PSYC 41980	RESEARCH WRITING IN PSYCHOLOGY (WIC)	
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
NEUR 10100	SEMINAR IN NEUROSCIENCE	1
NEUR 30100	NEUROSCIENCE I	3
NEUR 30200	NEUROSCIENCE II	3
NEUR 30300	EXPERIMENTAL METHODS IN NEUROSCIENCE	1
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	3
PSYC 31574	RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
Biology Electives, ch	noose from the following:	6
BSCI 40147	DEVELOPMENTAL NEUROBIOLOGY	
BSCI 40151	MECHANISMS OF DISEASE: OBESITY AND RELATED METABOLIC DISEASES	
BSCI 40152	MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS	
BSCI 40157	NEUROBIOLOGY OF DRUG ADDICTION	
BSCI 40158	MOLECULAR BIOLOGY	
BSCI 40159	MOLECULAR BIOLOGY LABORATORY (ELR) (WIC) ¹	
BSCI 40431	NEUROENDOCRINOLOGY	
BSCI 40432	ENDOCRINOLOGY	
BSCI 40450	BIOLOGICAL CLOCKS	
BSCI 40460	ADVANCED HUMAN PHYSIOLOGY	
BSCI 40462	ADVANCED HUMAN PHYSIOLOGY: READINGS AND CASE STUDIES	
BSCI 40515	ANIMAL BEHAVIOR	
BSCI 40519	HORMONES AND BEHAVIOR	
Psychology Elective	s, choose from the following:	6
PSYC 40111	PSYCHOPATHOLOGY	
PSYC 40383	INTRODUCTION TO CLINICAL PSYCHOLOGY	

PSYC 40446	COGNITIVE NEUROSCIENCE	
PSYC 41043	BASIC LEARNING PROCESSES	
PSYC 41364	DRUGS AND BEHAVIOR	
PSYC 43001	CLINICAL NEUROANATOMY	
PSYC 47387	NEUROPSYCHOPHARMACOLOGY	
Neuroscience Electiv	e, choose from the following:	2
BSCI 40147	DEVELOPMENTAL NEUROBIOLOGY	
BSCI 40151	MECHANISMS OF DISEASE: OBESITY AND RELATED METABOLIC DISEASES	
BSCI 40152	MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS	
BSCI 40157	NEUROBIOLOGY OF DRUG ADDICTION	
BSCI 40158	MOLECULAR BIOLOGY	
BSCI 40159	MOLECULAR BIOLOGY LABORATORY (ELR) (WIC) 1	
BSCI 40431	NEUROENDOCRINOLOGY	
BSCI 40432	ENDOCRINOLOGY	
BSCI 40450	BIOLOGICAL CLOCKS	
BSCI 40460	ADVANCED HUMAN PHYSIOLOGY	
BSCI 40462	ADVANCED HUMAN PHYSIOLOGY: READINGS AND CASE STUDIES	
BSCI 40515	ANIMAL BEHAVIOR	
BSCI 40519	HORMONES AND BEHAVIOR	
NEUR 40192	INTERNSHIP IN NEUROSCIENCE (ELR) 2	
NEUR 40195	SPECIAL TOPICS IN NEUROSCIENCE	
NEUR 40196	INDIVIDUAL INVESTIGATION IN NEUROSCIENCE ²	
PSYC 40111	PSYCHOPATHOLOGY	
PSYC 40383	INTRODUCTION TO CLINICAL PSYCHOLOGY	
PSYC 40446	COGNITIVE NEUROSCIENCE	
PSYC 41043	BASIC LEARNING PROCESSES	
PSYC 41364	DRUGS AND BEHAVIOR	
PSYC 43001	CLINICAL NEUROANATOMY	
PSYC 47387	NEUROPSYCHOPHARMACOLOGY	
Additional Requireme	ents (courses do not count in major GPA)	
UC 10001	FLASHES 101	1
Foreign Language (se	e Foreign Language College Requirement below)	8
Kent Core Composition	on	6
Kent Core Humanities	s and Fine Arts (minimum one course from each)	9
Additional Requireme	ents or Concentration	
Choose from the follo	wing:	48
Additional Require Concentration	ments for Students Not Declaring a	
Pre-Medicine/Pre-	Podiatry Concentration	
Minimum Total Credit	Hours:	120

A minimum C grade must be earned to fulfill the writing-intensive requirement.

Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
Major Requiremen	its (courses count in major GPA)	
Neuroscience Elec	ctives, choose from the list in the major	13

Ge	neral Chemistry Ele	ectives, choose from the following:	8
	CHEM 10058 & CHEM 10059	GENERAL CHEMISTRY FOR LIFE SCIENCES I and GENERAL CHEMISTRY FOR LIFE SCIENCES II	
	CHEM 10060 & CHEM 10061	GENERAL CHEMISTRY I (KBS) and GENERAL CHEMISTRY II (KBS)	
Ad	lditional Requireme	nts (courses do not count in major GPA)	
Ke	nt Core Social Scie	nces (must be from two disciplines)	3
Ke	nt Core Additional		6
	`	al credit hours depends on earning 120 credit oper-division credit hours)	18
Mi	nimum Total Credit	Hours:	48

Pre-Medicine/Pre-Podiatry Concentration Requirements

Hours

Code

		Hours
Concentration Requi	rements (courses count in major GPA)	
BSCI 30130	HUMAN PHYSIOLOGY	3
or BSCI 40430	ANIMAL PHYSIOLOGY	
BSCI 30171	GENERAL MICROBIOLOGY	4
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
or CHEM 40245	BIOCHEMICAL FOUNDATIONS OF MEDICINE	
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	1
CHEM 30481	ORGANIC CHEMISTRY I	3
CHEM 30482	ORGANIC CHEMISTRY II	3
MATH 11022	TRIGONOMETRY (KMCR)	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	5
or PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	
PHY 13002 & PHY 13022	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	5
or PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Minimum Total Credi	it Hours:	48

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Foreign Language College Requirement, B.S.

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.¹
- <u>The following programs are exempt from this requirement: The Bachelor of Science in Cybercriminology and the Bachelor of Science in Medical Laboratory Science.²

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 The following programs are exempt from this requirement: The Bachelor of Science in Medical Laboratory Science.

 The following programs are exempt from this requirement: The Bachelor of Science in Cybercriminology and the C</u>
- · Minimum Elementary I and II of the same language

A maximum 6 credit hours of NEUR 40192 and NEUR 40196 combined may be applied toward major requirements.

All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level

and will complete the requirement with fewer credit hours and courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through one of the alternative credit programs offered by Kent State University; or (3) demonstrating language proficiency comparable to Elementary II of a foreign language. When students complete the requirement with fewer than 8 credit hours and two courses, they will complete remaining credit hours with general electives.

The Bachelor of Science in Medical Laboratory Science exemption exists under another college policy (Three-Plus-One Programs). The Bachelor of Science in Cybercriminology exemption is due to its extensive collaboration with and contribution from the Information Technology program in the College of Applied and Technical Studies, which does not have a foreign language requirement.

Roadmaps

Neuroscience Major (No Concentration)

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
NEUR 10100	SEMINAR IN NEUROSCIENCE	1
UC 10001	FLASHES 101	1
General Chemi	stry Elective	4
	Credit Hours	14
Semester Two		
BSCI 30140	CELL BIOLOGY	4
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
General Chemi	stry Elective	4
Kent Core Requ	uirement	3
	Credit Hours	15
Semester Thre	e	
BSCI 30156	ELEMENTS OF GENETICS	3
NEUR 30100	NEUROSCIENCE I	3
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	3
Foreign Langua	age Requirement	4
Kent Core Requ	uirement	3
	Credit Hours	16
Semester Four		
NEUR 30200	NEUROSCIENCE II	3
NEUR 30300	EXPERIMENTAL METHODS IN NEUROSCIENCE	1
PSYC 31574	RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
Foreign Langua	age Requirement	4
Kent Core Requ	uirement	3
	Credit Hours	14
Semester Five		
Biology and/or	Neuroscience and/or Psychology Electives	9
Kent Core Requ	uirement	3
Kent Core Requ	uirement	3
	Credit Hours	15

Semester Six

Minimum Total Credit Hours:	120
Credit Hours	15
General Electives	12
Biology and/or Neuroscience and/or Psychology Elective	3
Semester Eight	
Credit Hours	15
General Electives	6
Kent Core Requirement	3
Biology and/or Neuroscience and/or Psychology Electives	6
Semester Seven	
Credit Hours	16
Kent Core Requirement	3
Kent Core Requirement	3
Biology and/or Neuroscience and/or Psychology Electives	9
BSCI 40600 WRITING IN THE BIOLOGICAL SCIENCES (WIC) or or WRITING IN PSYCHOLOGY (WIC) PSYC 41901 or RESEARCH WRITING IN PSYCHOLOGY or (WIC) PSYC 41980	1

Pre-Medicine/Pre-Podiatry Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
NEUR 10100	SEMINAR IN NEUROSCIENCE	1
UC 10001	FLASHES 101	1
	Credit Hours	14
Semester Two		
BSCI 30140	CELL BIOLOGY	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Kent Core Requ	irement	3
	Credit Hours	15
Semester Three	1	
Semester Three BSCI 30156	ELEMENTS OF GENETICS	3
		3
BSCI 30156	ELEMENTS OF GENETICS	
BSCI 30156 CHEM 30475	ELEMENTS OF GENETICS ORGANIC CHEMISTRY LABORATORY I (ELR)	1
BSCI 30156 CHEM 30475 CHEM 30481	ELEMENTS OF GENETICS ORGANIC CHEMISTRY LABORATORY I (ELR) ORGANIC CHEMISTRY I	1
BSCI 30156 CHEM 30475 CHEM 30481 NEUR 30100	ELEMENTS OF GENETICS ORGANIC CHEMISTRY LABORATORY I (ELR) ORGANIC CHEMISTRY I NEUROSCIENCE I QUANTITATIVE METHODS IN PSYCHOLOGY I	1 3 3
BSCI 30156 CHEM 30475 CHEM 30481 NEUR 30100 PSYC 21621	ELEMENTS OF GENETICS ORGANIC CHEMISTRY LABORATORY I (ELR) ORGANIC CHEMISTRY I NEUROSCIENCE I QUANTITATIVE METHODS IN PSYCHOLOGY I	1 3 3 3
BSCI 30156 CHEM 30475 CHEM 30481 NEUR 30100 PSYC 21621	ELEMENTS OF GENETICS ORGANIC CHEMISTRY LABORATORY I (ELR) ORGANIC CHEMISTRY I NEUROSCIENCE I QUANTITATIVE METHODS IN PSYCHOLOGY I irement	1 3 3 3 3
BSCI 30156 CHEM 30475 CHEM 30481 NEUR 30100 PSYC 21621 Kent Core Requ	ELEMENTS OF GENETICS ORGANIC CHEMISTRY LABORATORY I (ELR) ORGANIC CHEMISTRY I NEUROSCIENCE I QUANTITATIVE METHODS IN PSYCHOLOGY I irement	1 3 3 3 3
BSCI 30156 CHEM 30475 CHEM 30481 NEUR 30100 PSYC 21621 Kent Core Requ	ELEMENTS OF GENETICS ORGANIC CHEMISTRY LABORATORY I (ELR) ORGANIC CHEMISTRY I NEUROSCIENCE I QUANTITATIVE METHODS IN PSYCHOLOGY I irement Credit Hours	1 3 3 3 3 16
BSCI 30156 CHEM 30475 CHEM 30481 NEUR 30100 PSYC 21621 Kent Core Requ Semester Four CHEM 30476	ELEMENTS OF GENETICS ORGANIC CHEMISTRY LABORATORY I (ELR) ORGANIC CHEMISTRY I NEUROSCIENCE I QUANTITATIVE METHODS IN PSYCHOLOGY I irement Credit Hours ORGANIC CHEMISTRY LABORATORY II	1 3 3 3 3 16
BSCI 30156 CHEM 30475 CHEM 30481 NEUR 30100 PSYC 21621 Kent Core Requ Semester Four CHEM 30476 CHEM 30482	ELEMENTS OF GENETICS ORGANIC CHEMISTRY LABORATORY I (ELR) ORGANIC CHEMISTRY I NEUROSCIENCE I QUANTITATIVE METHODS IN PSYCHOLOGY I irrement Credit Hours ORGANIC CHEMISTRY LABORATORY II ORGANIC CHEMISTRY II	1 3 3 3 3 16
BSCI 30156 CHEM 30475 CHEM 30481 NEUR 30100 PSYC 21621 Kent Core Requ Semester Four CHEM 30476 CHEM 30482 MATH 11022	ELEMENTS OF GENETICS ORGANIC CHEMISTRY LABORATORY I (ELR) ORGANIC CHEMISTRY I NEUROSCIENCE I QUANTITATIVE METHODS IN PSYCHOLOGY I irement Credit Hours ORGANIC CHEMISTRY LABORATORY II ORGANIC CHEMISTRY II TRIGONOMETRY (KMCR)	1 3 3 3 3 16
BSCI 30156 CHEM 30475 CHEM 30481 NEUR 30100 PSYC 21621 Kent Core Requ Semester Four CHEM 30476 CHEM 30482 MATH 11022 NEUR 30200	ELEMENTS OF GENETICS ORGANIC CHEMISTRY LABORATORY I (ELR) ORGANIC CHEMISTRY I NEUROSCIENCE I QUANTITATIVE METHODS IN PSYCHOLOGY I irement Credit Hours ORGANIC CHEMISTRY LABORATORY II ORGANIC CHEMISTRY II TRIGONOMETRY (KMCR) NEUROSCIENCE II	1 3 3 3 3 16 1 3 3

SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
	Credit Hours	17
Semester Five		
BSCI 30130 or BSCI 40430	HUMAN PHYSIOLOGY or ANIMAL PHYSIOLOGY	3
BSCI 30171	GENERAL MICROBIOLOGY	4
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
PHY 13001 & PHY 13021 or PHY 23101	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) or GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
	Credit Hours	17
Semester Six		
CHEM 30284 or CHEM 40245	INTRODUCTORY BIOLOGICAL CHEMISTRY or BIOCHEMICAL FOUNDATIONS OF MEDICINE	4
PHY 13002 & PHY 13022 or PHY 23102	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB) or GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
Biology and/or I	Neuroscience and/or Psychology Electives	5
	Credit Hours	14
Semester Sever	1	
BSCI 40600 or PSYC 41901 or PSYC 41980	(WIC)	1
Biology and/or I	Neuroscience and/or Psychology Electives	6
Foreign Langua	ge	4
Kent Core Requi	irement	3
	Credit Hours	14
Semester Eight		
Biology and/or I	Neuroscience and/or Psychology Elective	3
Foreign Langua	ge	4
Kent Core Requi	irement	3
Kent Core Requi	irement	3
	Credit Hours	13
	Minimum Total Credit Hours:	120

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one globa course, of which one must be from the Kent Core.	ıl
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	

Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours
Kent Core Requirements	
Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	36-37

Program Learning Outcomes

Graduates of this program will be able to:

- 1. Understand fundamental principles of neuroscience.
- 2. Acquire fundamental hands-on research skills necessary for laboratory investigations into central nervous system function.
- Understand proper experimental design, data analysis and communication of research results.
- Gain greater knowledge and appreciation of the role neuroscience plays in societal issues, such as those related to neurological disorders, mental health, medicine and human and animal behavior.

Program Policies Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Science degree in Neuroscience offers a broad-based and hands-on study of the mechanisms of brain function from the cell and molecular level through cognition and behavior. This major is for students interested in medicine, other health professions, research and graduate studies in biology, neuroscience and psychology. The major also prepares students for careers in industries, including biotechnology, pharmaceuticals, research administration and policy, science communication, teaching and other science-related businesses.

The Neuroscience major includes the following optional concentration:

 The Pre-Medicine/Pre-Podiatry concentration provides the courses necessary for admission to advanced degree programs in healthcare and biomedical science professions.