

# Neuroscience

2017-2018  
Academic Year



## School of Science and Engineering

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GENERAL REQUIREMENTS FOR STUDENTS MATRICULATING IN ACADEMIC YEAR: 2017-2018

DEGREE: **BACHELOR OF SCIENCE**

TOTAL CREDITS: 120

MAJOR: **NEUROSCIENCE**

MINIMUM CUMULATIVE GRADE POINT AVERAGE: 2.0

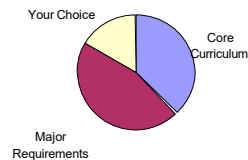
MINIMUM MAJOR GRADE POINT AVERAGE: 2.0

CORE CURRICULUM REQUIREMENTS			MAJOR REQUIREMENTS
Area	Credits	To Be Selected From	Neuroscience Required Courses
First Year Writing	4	ENGL 1010 or Equivalent	NSCI/PSYC 3300 NSCI/CELL 3310 NSCI/CELL 3320
TIDES – 1 course in fall semester	1-1.5		<b>Elective Courses (Min. of 12 credits, including min. of 3 labs)</b> <b>Elective Neuroscience Lecture Courses (Min. of 6 credits)</b>
Foreign Language – Competence at 1020-Level (1-2 courses depending on placement and language)	3-8	Arabic, Chinese, French, German, Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, or Spanish	NSCI/PSYC 3770 NSCI/PSYC 4060 NSCI/LING 4110 NSCI/CELL 4300 NSCI/PSYC 4330 NSCI/CELL 4340 NSCI/CELL 4370 NSCI/PSYC 4380 NSCI/CELL 4500 NSCI/PSYC 4510 NSCI/PSYC 4512 NSCI/PSYC 4530 NSCI 4130 NSCI/CELL 4350 NSCI 4513 NSCI/CELL 6150
Cultural Knowledge – 1 Humanities 1 Fine Arts	6	Courses designated Humanities and Fine Arts	<b>Elective Lab Courses (Min. of 3 labs, at least 1 in NSCI area)</b> NSCI/CELL 3315 NSCI 3325 NSCI 3360 NSCI/PSYC 3775 NSCI/PSYC 4065 NSCI/PSYC 4385 NSCI/PSYC 4515 NSCI/PSYC 4535 CELL 2115 CELL 3035 CELL 3755 CELL 4111 CELL 4491 P S Y C 3 1 3 0 SCEN 3030/3135 SCEN 3040/3145
Cultural Knowledge – Social Science	6	Courses designated Social Science	<b>Note:</b> Independent study (3 credits) or Honors Thesis (7 credits) may fulfill only one laboratory requirement
Quantitative Reasoning 2 Math courses	8	MATH 1210 or equivalent and 1220 or 1230	<b>Elective Lecture Courses (Min. 3 credits)</b> PSYC 3090 PSYC 3330 PSYC 3680 PSYC 6110 CELL 3030 CELL 3050 CELL 3210 CELL 3750 CELL 4010 CELL 4160 EBIO 1010/1015 EBIO 3330 NSCI/SCEN 3010 S CEN 4110
Scientific Inquiry – 1 Lab Science 1 Science or Math	7-8	Courses from departments designated Science and Math	<b>Co-Requisite Courses</b> PSYC 1000 CELL 1010 CELL 2015 CELL 2050 CHEM 1070/1075 CHEM 1080/1085 CHEM 2410/2415 CHEM 2420/2425 PHYS 1210 or 1310 PHYS 1220 or 1320
Writing Intensive	4	Consult Major	Math – Two courses required for B.S., one semester of Calculus required
Public Service – 1 <sup>st</sup> Tier 2 <sup>nd</sup> Tier		1000-3000-Level 3000-Level or above	<b>Study Abroad:</b> Copenhagen, Denmark; Dunedin, New Zealand; Perth, Sydney, & Melbourne, Australia
Western Traditions	3	Refer to Undergraduate Core Curriculum Guide	
Outside Western Traditions Or Comparative Cultures Intl. Perspectives	3	Refer to Undergraduate Core Curriculum Guide	

***There is no minor for Neuroscience.***

**To complete the required 120 hours, you may choose to take additional courses:**

1. In your major
2. Of interest to you
3. To satisfy another major (32 hours)
4. To satisfy another minor (16 hours)



- The Degree Plan and other information provided in this booklet serve only as advising tools. Newcomb-Tulane College advisors will help advise you on the core-curriculum, decide on a major, and consult on any academic success issues.
- Your major advisors will advise you on major requirements.
- Students with multiple majors will have more than one advisor and will need to consult with the appropriate advisor.
- Minors are not assigned an advisor, but a faculty member in the department is designated to advise minors.
- Become familiar with your major! By declaring early, you have access to a major advisor, are able to enroll in "majors only" classes, and are included in list serves that allow you to receive information about events, internships, and other opportunities.
- Pre-med and Pre-law students should also consult with one of the Pre-Professional advisors.

# What Can I Do with a Major in... Neuroscience

## GENERAL INFORMATION

- Gaining relevant experience through part-time and summer jobs, volunteering or internships will help you explore career options and also increase your marketability.
- Develop skills by obtaining a leadership role in student government or a school or community organization.
- Excellent verbal and written communication skills are important in all fields.
- Neuroscience combines many traditional fields of study including psychology, biology, chemistry, physics, anatomy and physiology. If you have identified a field of interest, select your coursework and internship experiences to support your career objective.
- A degree in Neuroscience fulfills the standard requirements of a premedical curriculum, which is recommended or required for admission to graduate study in Neuroscience or related graduate programs, as well as medical school.

## SKILLS

- High proficiency in written/oral communications
- Ability to operate scientific equipment
- Report writing
- Ability to conduct experimental design
- Knowledge and application of research techniques
- Group interaction and teamwork skills
- Statistical analysis skills
- Interpersonal skills
- Time management skills
- Ability to apply and integrate fundamental scientific principles
- Strong quantitative skills
- Attention to detail
- Effective communicator – present information clearly and effectively
- Analytic thinking and complex problem solving ability

## CAREER AREAS

### GOVERNMENT

- Research

## EMPLOYERS

- Government agencies (Center for Disease Control, Food and Drug Administration, National Institute of Drug Abuse, National Institutes of Health, National Institute of Mental Health)
- Research facilities
- Research foundations

### INDUSTRY/BUSINESS

- Research
- Product management

- Chemical manufacturers
- Consulting firms
- Food manufacturers
- Healthcare producers
- Pharmaceutical companies
- Scientific journals

### HEALTHCARE ORGANIZATIONS

- Research

- Clinics
- Hospitals
- Testing labs

*If you think you might be interested in this major, but you are not absolutely sure, an exploratory advisor can help you explore major and career options, please go to:*



*If you are interested in information about Law Professions, please go to:*



*If you are interested in information about Health Professions, please go to:*



# What Can I Do with a Major in... Neuroscience

## SALES

- Account management
- Sales support

- Chemical manufacturers
- Healthcare producers
- Pharmaceutical companies

## EDUCATION

- Teaching
- Research
- Administration

- Teach for America
- Public and private elementary and secondary schools
- Colleges and universities

## PROFESSIONAL ORGANIZATIONS

American Academy of Neurology  
[www.aan.com](http://www.aan.com)

American Physiological Society  
[www.the-aps.org](http://www.the-aps.org)

American Psychiatric Association  
[www.psych.org](http://www.psych.org)

American Medical Association  
[www.ama-assn.org](http://www.ama-assn.org)

American Neurological Association  
[www.aneuroa.org](http://www.aneuroa.org)

American Psychological Association  
[www.apa.org](http://www.apa.org)

American Association for the Advancement of Science  
[www.aaas.org](http://www.aaas.org)

Cognitive Neuroscience Society  
[www.cogneurosociety.org](http://www.cogneurosociety.org)

Society for Neuroscience  
[www.sfn.org](http://www.sfn.org)

## RELATED WEBSITES & ASSOCIATIONS

Tulane University Neuroscience Department  
<http://tulane.edu/sse/neuro>

Neurology Channel  
[www.neurologychannel.com](http://www.neurologychannel.com)

Neurosurgery Today  
[www.neurosurgerytoday.org](http://www.neurosurgerytoday.org)

Science Magazine  
[www.sciencemag.org](http://www.sciencemag.org)

Jobs for Sciences  
[www.sciencejobs.com](http://www.sciencejobs.com)

*For Jobs, internships, resume assistance,  
interviews, and self-assessments, please  
go to:*



*Tulane University is committed to your academic success  
and provide several services to assist.*