### NEUROSCIENCE

#### What can I do with this major?

<table>
<thead>
<tr>
<th>AREAS</th>
<th>EMPLOYERS</th>
<th>STRATEGIES</th>
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</thead>
<tbody>
<tr>
<td><strong>HEALTH SCIENCES (some areas)</strong></td>
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<tr>
<td>Medicine/Healthcare</td>
<td>Hospitals</td>
<td><strong>Medicine/Healthcare</strong>: Neuroscience can prepare one to enter a number of medical and healthcare fields.</td>
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<tr>
<td>Psychiatry</td>
<td>Government</td>
<td>Meet with a pre-health advisor periodically to discuss curricular decisions.</td>
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<tr>
<td>Neurodiagnostic Technology</td>
<td>National Institutes of Health</td>
<td>Maintain a high grade point average, particularly in the sciences, to improve chances of admission to graduate or professional school.</td>
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<tr>
<td>Dentistry</td>
<td>Centers for Disease Control and Prevention</td>
<td>Secure strong faculty recommendations.</td>
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<tr>
<td>Pharmacy</td>
<td>Food and Drug Administration</td>
<td>Seek experience in health care settings through volunteer positions, research positions or internships to test interests and increase marketability.</td>
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<tr>
<td>Physician Assistant</td>
<td>Armed Services</td>
<td>Participate in service-oriented organizations, medical missions, remote healthcare clinics and professional societies in your target field.</td>
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<tr>
<td>Veterinary Medicine</td>
<td>Group or private practice</td>
<td>Research accredited institutions. Check graduation rates, success rates on licensing exams, cost, location, etc. If possible, speak with current students.</td>
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<tr>
<td><strong>Psychology</strong></td>
<td>Health clinics</td>
<td><strong>Psychology</strong>: Neuroscience can prepare one to enter master’s and doctoral programs in psychology.</td>
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<tr>
<td>Neuropsychology</td>
<td>Health networks</td>
<td>Graduate programs in clinical psychology should be accredited by the American Psychological Association (APA).</td>
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<tr>
<td>Clinical</td>
<td>Nursing homes</td>
<td>Graduate programs in counseling should be accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP).</td>
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<tr>
<td>Biological Psychology</td>
<td>Rehabilitation centers</td>
<td>Research certifications through the American Academy of Clinical Neuropsychology and the American Board of Professional Neuropsychology.</td>
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<tr>
<td>Healthcare</td>
<td>Mental health institutions</td>
<td>See What can I do with a major this major? Medical Fields, Healthcare Sciences, and Psychology</td>
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<td>AREAS</td>
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| RESEARCH AND DEVELOPMENT | Government  
Clinical Research  
Public Health Research  
Global Data Collection and/or Health Reporting  
Grants Specialist, Administrator, Reviewer  
Discovery Specialist (coordinate academic and biotechnology research to cure a specific disease) | Centers for Disease Control  
National Institutes of Health  
National Science Foundation  
USAID  
Public Health Organizations (state, local, international)  
World Health Organization  
Oxfam America  
Doctors Without Borders  
United Nations  
Research Foundations  
University Science Centers | Develop a solid background in statistics, mathematics and the software utilized for statistical analyses.  
Gain experience with research. Volunteer to assist professors with research or apply for summer programs and internships.  
Develop strong communication skills, knowledge of funding sources, grant writing techniques and submission procedures.  
Considering earning a graduate degree in clinical psychology, biological psychology or statistics. |
| LAW | Corporations (biotechnology)  
Trade and professional associations  
Political action committees  
Law firms  
Public interest advocacy groups  
Legal aid societies  
Government  
Congress  
Center for Disease Control  
Food and Drug Administration  
National Institute of Health | Government  
Centers for Disease Control  
National Institutes of Health  
National Science Foundation  
USAID  
Public Health Organizations (state, local, international)  
World Health Organization  
Oxfam America  
Doctors Without Borders  
United Nations  
Research Foundations  
University Science Centers | Develop strong research and writing skills.  
Enhance communication skills through public speaking courses, debate team or Toast Masters (a public speaking organization).  
Maintain current knowledge of industry trends, laws and policies specific to area of interest.  
Acquire internships in federal or state government. Utilize applicable websites and seek assistance from your college career center.  
Take courses in history, political science and/or legal studies to supplement science curriculum.  
To pursue a J.D., participate in mock trial and pre-law associations, and learn law school admissions process. |

LAW
Public Policy  
Consultant  
Lobbying/Government Relations/Public Policy (advise on policy/science/health-related initiatives for the care of persons with psychiatric illnesses, neurodevelopmental diseases, intellectual disabilities, autism, epilepsy, etc.)  
Elected Official

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<tr>
<td><strong>BUSINESS</strong></td>
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<tr>
<td>Technical/Pharmaceutical Sales</td>
<td>Manufacturing companies: Biotechnology Neurotechnology Agricultural chemicals Pharmaceuticals Medical device and equipment Consulting firms</td>
<td>Develop excellent communication and interpersonal skills and demonstrate a high energy level.</td>
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<tr>
<td>Customer Service</td>
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<td>Public Relations</td>
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<td>Marketing</td>
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<td>Advertising</td>
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<td>Management</td>
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<td>Insurance</td>
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<td>Claims Management</td>
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<td>Underwriting</td>
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<td>Real Estate</td>
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<td>Sales</td>
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<td>Property Management</td>
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<td><strong>EDUCATION</strong></td>
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<td>Teaching</td>
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<td>K-12</td>
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<td>Post-secondary</td>
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<tr>
<td>Non-classroom Settings</td>
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<tr>
<td>Library Science (medical or other)</td>
<td>Public and private schools, K-12 Two-year community colleges/technical institutes Four-year institutions Professional/Medical Schools Neuroscience, Biology, Chemistry, Pharmacy, Dentistry, Medicine, Veterinary Medicine Libraries (medical or other) Public Health Organizations Research Foundations University Science Centers</td>
<td>Complete a teacher preparation program for K-12 positions, which varies by state. A content area is required for secondary education licensure in most states. Master’s degrees may be sufficient for teaching at community or two-year institutions. Seek Ph.D. in psychology, biology, neurosciences, etc. for teaching opportunities at colleges and universities. Conduct research or assist in research at the undergraduate level and maintain a high GPA to secure strong personal recommendations. Pursue a master’s degree in college student personnel, higher education administration for student affairs or administrative positions. Earn a master’s degree in library or information sciences from a program accredited by the American Library Association (ALA) for medical library positions.</td>
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<tr>
<td>Research</td>
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<td>Administration</td>
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### AREAS

**MEDIA and DESIGN**
- Scientific Journalism, Editing, Blogging
- Graphic Design (scientific education materials)
- Web Design (scientific education materials)
- Medical Illustration
- Science Consulting (how the brain develops/perceives spaces, color, texture, emotion, etc.)

### EMPLOYERS
- Science/Education
  - Journals
  - Publishing companies
  - Educational textbooks
  - Blogs
  - Websites
- Industry
  - Architecture
  - Toy design
  - Film
  - Media

### STRATEGIES
- Pursue courses in medical illustration or medical, neurological, biological or ophthalmic photography, depending on your goal.
- Develop strong writing skills and a portfolio of published works.
- Take advanced courses in technical writing or journalism classes or consider a minor in either.
- Join professional associations like the National Association of Science Writers or the Public Relations Student Society of America.
- Seek related volunteer or paid experiences with student/local publications or blogs to increase marketability.
- Consider earning an advanced degree in a communications field to specialize in scientific journalism.

### GENERAL INFORMATION
- Neuroscience is a growing field of study. An undergraduate degree can prepare students to enter a number of graduate and professional programs in neuroscience, psychology, medicine and healthcare.
- Some neuroscience specialties include:
  - Neurotechnology - combining engineering and technology with neuroscience including how to improve and repair brain function
  - Neuroprosthetics - the interface between man and machine
  - Neuroethics - the social, legal, and ethical consequences of advances in brain research
  - Neuroeconomics - risk-taking and decision-making that influence business and the economy
  - Neuroaesthetics - creativity and the brain
- Study in neuroscience may benefit those pursuing clinical careers like Nurses/Nurse Practitioners/Physician's Assistants who may specialize in neurology, neuro-oncology, pediatric neurology, etc.; Speech Language Pathologists who serve neurological patients with damage to left hemisphere, or children with neurodevelopmental disorders; Occupational Therapists who assist patients recovering from strokes, loss of basic function; Physical Therapists who teach how to compensate/alleviate developmental disorders i.e., Sensory Processing Disorder, autism, Attention Deficit Disorder, motor disorders; Audiologists who assess hearing function; Nutritionists who understand how nutrients and metabolism affect the nervous system; Social Workers who understand specific issues affecting neurological patients after hospitalizations.
- Seek laboratory experiences such as research projects, volunteering with professors, or internships related to your career concentration.
- Participate in research programs sponsored by organizations like the National Science Foundation and the National Institutes of Health. Seek guidance from career center staff for assistance for government internship and full-time employment searches.
- Earn a Ph.D. to direct to direct research projects, to enter high levels of administration, practice clinical psychology, and to teach at four-year post-secondary institutions. Postdoctoral fellowships may also be required. Earn a master's degree in counseling to pursue licensure.
- Meet with a pre-health advisor periodically to discuss curricular decisions if planning to pursue graduate and professional programs in healthcare.

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