PROGRAM DESCRIPTION
The scientific community has been and continues to be fascinated by the prospect of unlocking the intricacies of the brain. Explorations in neuroscience often lead to questions about a human’s personality, emotions, senses, diseases, or even the ability to develop artificial intelligence. There are currently many more questions than answers in this area. Neuroscience is an interdisciplinary field that has its foundation within psychology and biology, but incorporates concepts across many disciplines such as art, music, philosophy, chemistry, physics, and math to explore how our most complex organ, the brain, works.

The Neuroscience program will provide students with a foundation in Neuroscience that will allow her to formulate questions and interpret current findings about the brain. The minor in Neuroscience is a chance for students to explore the field by integrating coursework and laboratory experiments across different disciplines.

NEUROSCIENCE PROGRAM LEARNING OUTCOMES
• A student shall be able to correctly answer questions about basic concepts in neuroscience.
• A student will demonstrate both conceptual understanding and procedural knowledge of common neuroscience techniques, pertaining to both theoretical and applied knowledge.
• A student will be able to demonstrate an understanding of scientific methodology and experimental design, including what constitutes good evidence in scientific literature.
• A student will be able to clearly present scientific data from review and original research articles in both oral and written form.

Minor in Neuroscience—NEUR (22–23 hours)
All of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>BIO 155</td>
<td>Foundations of Molecular Biology</td>
<td>2</td>
</tr>
<tr>
<td>BIO 157</td>
<td>Foundations of Cellular Biology</td>
<td>2</td>
</tr>
<tr>
<td>BIO 235</td>
<td>Foundations of Neuroscience</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 156</td>
<td>Introduction to Psychology: Culture and Systems</td>
<td>3</td>
</tr>
<tr>
<td>or PSYC 157</td>
<td>Introduction to Psychology: Science for the Citizen</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 234/</td>
<td>Neuropsychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 234L</td>
<td>Neuropsychology Lab (required)</td>
<td>1</td>
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One of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BIO 214</td>
<td>Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 328</td>
<td>General Physiology</td>
<td>4</td>
</tr>
</tbody>
</table>
NEUROSCIENCE COURSES (NEUR)

185 First-Year Seminar: I like brains (1)
The purpose of this course will be to provide you with a survey of concepts, principles, and theories of neuroscience, to introduce you to the breadth of the field as well as to the ways in which neuroscience can be ‘connected’ with many other fields of study. It is thus designed to help you understand this inherently interdisciplinary field. During the course of the semester we will discuss some of the sub-disciplines within neuroscience (e.g., molecular, cellular, cognitive, and behavioral points of view), research in neuroscience happening on-campus, how neuroscience relates to other disciplines (such as biology, physics, psychology, and the arts). We will also discuss the major as a whole, including course requirements, opportunities available outside of the classroom, and the different trajectories that you might pursue within the major.

385 Neuroscience Research Seminar (1)
The junior seminar in Neuroscience provides an opportunity for students and faculty to examine the latest research in Neuroscience. Each student will work with the instructor to choose a primary research article and accompanying review article to formally present to her classmates. All of the presentations will fit the themes of the year, but students are encouraged to find papers that interest them and fit with their particular concentration. Each week one student will provide a ~25 minute presentation of her research article with the appropriate background material. The other students in the class, having read the research and review article prior to class, will come to class prepared to discuss and critique the research being presented. One student will be assigned as the primary reviewer to help encourage discussion. This seminar format provides students the opportunity to perform three important components of science education: the reading, the oral presentation and the critique of primary research literature. Prerequisite: BIO 235 and PSYC 234.

485 Neuroscience-Senior Research (4)
This course is designed specifically for Neuroscience majors of senior standing to complete their individual senior comprehensive project. Students will have an opportunity to design, run, and analyze a research project under direct supervision of a faculty member. Students will read and analyze literature pertinent to their project and present their work in written and oral formats. Prerequisite: NEUR 385.

One of the following:
- BIO 232 Animal Behavior 4 hours
- PSYC 326 Abnormal Psychology 3 hours
- PSYC 449 Sensation and Perception 3 hours

DEPARTMENT DESCRIPTION
The curriculum includes four years of study designed to provide the student with a foundation in the liberal arts as well as the knowledge and skills needed to function as a professional nurse upon graduation. Liberal arts courses are prerequisite to or concurrent with the professional studies and are arranged so that these two components are mutually supportive.

The nursing program is accredited by Indiana State Board of Nursing (ISBN) and The Commission on Collegiate Nursing Education (CCNE). The curriculum adopts the educational guidelines set forth by the American Association of Colleges of Nursing and the Essentials of Baccalaureate Education for Professional Nursing Practice. Graduates earn a Bachelor of Science in Nursing degree and have the educational background required to apply for graduate programs in nursing.

Consistent with College policy, intended nursing students petition for admission to the nursing major during the spring of the sophomore year. (See criteria for acceptance below.) Transfer students will be evaluated on an individual basis. Students who wish to transfer from other nursing programs must meet the standards required for regularly enrolled students.

Upon successful completion of the degree requirements, the student is eligible to apply for the National Council Licensure Examination (NCLEX-RN) for licensure as a registered professional nurse. Students may choose to take the examination for registration in any state or territory in the U.S.

Nursing students are required to adhere to all policies and procedures as published in this Bulletin as well as those stated in the official Department of Nursing Science Student Handbook.

In order to maintain the quality and integrity of the nursing program, the Department of Nursing Science reserves the right to update and/or revise departmental policy.

ADVANCED WRITING PROFICIENCY
Advanced Writing Proficiency is evaluated within the major during the senior year. A designated paper is submitted for review and is evaluated for demonstration of professional writing proficiency. The Department of Nursing Science requires use of the current style manual of the American Psychological Association for all course assignments as well as the advanced writing proficiency paper.

SENIOR COMPREHENSIVE EXAM
Satisfactory completion of a comprehensive examination in the major is required. It is typically administered during the final semester of the senior year. This exam is a computer-based program and simulates the NCLEX-RN licensure examination.