NEUROSCIENCE - B.S.

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

Contact Information
- Program Coordinator: Wilson Chung, Ph.D. | neuroundergrad@kent.edu | 330-672-3641
- Speak with an Advisor
- Chat with an Admissions Counselor

Fully Offered
- Delivery: In person
- Location: Kent Campus

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 optional concentration prepares students for a graduate medical or podiatry program.

Admission Requirements
The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

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. Check with a regional campus admissions office to determine application requirements, as they may differ among campuses.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score, minimum 48 PTE score or minimum 100 DET score; or by completing the ESL level 112 Intensive Program. For more information, visit the admissions website for international students.

Transfer Students: For more information, visit the admissions website for transfer students.

Former Students: Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar’s website.

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.
3. Understand of proper experimental design, data analysis and communication of research results.
4. 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.

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.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Destination Kent State: First Year Experience</td>
<td>1</td>
</tr>
<tr>
<td>Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.</td>
<td></td>
</tr>
<tr>
<td>Diversity Domestic/Global (DIVD/DIVG)</td>
<td>2 courses</td>
</tr>
<tr>
<td>Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.</td>
<td></td>
</tr>
<tr>
<td>Experiential Learning Requirement (ELR)</td>
<td>varies</td>
</tr>
<tr>
<td>Students must successfully complete one course or approved experience.</td>
<td></td>
</tr>
<tr>
<td>Kent Core (see table below)</td>
<td>36-37</td>
</tr>
<tr>
<td>Writing-Intensive Course (WIC)</td>
<td>1 course</td>
</tr>
<tr>
<td>Students must earn a minimum C grade in the course.</td>
<td></td>
</tr>
<tr>
<td>Upper-Division Requirement</td>
<td>39</td>
</tr>
<tr>
<td>Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.</td>
<td></td>
</tr>
<tr>
<td>Total Credit Hour Requirement</td>
<td>120</td>
</tr>
</tbody>
</table>

Kent Core Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kent Core Composition (KCMP)</td>
<td>6</td>
</tr>
<tr>
<td>Kent Core Mathematics and Critical Reasoning (KMCR)</td>
<td>3</td>
</tr>
<tr>
<td>Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)</td>
<td>9</td>
</tr>
<tr>
<td>Kent Core Social Sciences (KSS) (must be from two disciplines)</td>
<td>6</td>
</tr>
<tr>
<td>Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)</td>
<td>6-7</td>
</tr>
<tr>
<td>Kent Core Additional (KADL)</td>
<td>6</td>
</tr>
<tr>
<td>Total Credit Hours:</td>
<td>36-37</td>
</tr>
</tbody>
</table>
# Program Requirements

## Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSCI 10120</td>
<td>BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)</td>
<td>4</td>
</tr>
<tr>
<td>BSCI 30140</td>
<td>CELL BIOLOGY</td>
<td>4</td>
</tr>
<tr>
<td>BSCI 30156</td>
<td>ELEMENTS OF GENETICS</td>
<td>3</td>
</tr>
<tr>
<td>BSCI 40600</td>
<td>WRITING IN THE BIOLOGICAL SCIENCES (WIC) 1</td>
<td>1</td>
</tr>
<tr>
<td>or PSYC 41901</td>
<td>WRITING IN PSYCHOLOGY (WIC)</td>
<td></td>
</tr>
<tr>
<td>or PSYC 41980</td>
<td>RESEARCH WRITING IN PSYCHOLOGY (WIC)</td>
<td></td>
</tr>
<tr>
<td>CHEM 10060</td>
<td>GENERAL CHEMISTRY I (KBS)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 10061</td>
<td>GENERAL CHEMISTRY II (KBS)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 10062</td>
<td>GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 10063</td>
<td>GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)</td>
<td>1</td>
</tr>
<tr>
<td>MATH 11010</td>
<td>ALGEBRA FOR CALCULUS (KMCR)</td>
<td>3</td>
</tr>
<tr>
<td>NEUR 10100</td>
<td>SEMINAR IN NEUROSCIENCE</td>
<td>1</td>
</tr>
<tr>
<td>NEUR 30100</td>
<td>NEUROSCIENCE I</td>
<td>3</td>
</tr>
<tr>
<td>NEUR 30200</td>
<td>NEUROSCIENCE II</td>
<td>3</td>
</tr>
<tr>
<td>NEUR 30300</td>
<td>EXPERIMENTAL METHODS IN NEUROSCIENCE</td>
<td>1</td>
</tr>
<tr>
<td>PSYC 11762</td>
<td>GENERAL PSYCHOLOGY (DIVD) (KSS)</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 21621</td>
<td>QUANTITATIVE METHODS IN PSYCHOLOGY I</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 31574</td>
<td>RESEARCH METHODS IN PSYCHOLOGY (ELR)</td>
<td>3</td>
</tr>
</tbody>
</table>

### Neuroscience Electives, choose from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSCI 40147</td>
<td>DEVELOPMENTAL NEUROBIOLOGY</td>
<td></td>
</tr>
<tr>
<td>BSCI 40151</td>
<td>MECHANISMS OF DISEASE: OBESITY AND RELATED METABOLIC DISEASE</td>
<td></td>
</tr>
<tr>
<td>BSCI 40152</td>
<td>MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS</td>
<td>3</td>
</tr>
<tr>
<td>BSCI 40157</td>
<td>NEUROBIOLOGY OF DRUG ADDICTION</td>
<td></td>
</tr>
<tr>
<td>BSCI 40158</td>
<td>MOLECULAR BIOLOGY</td>
<td></td>
</tr>
<tr>
<td>BSCI 40159</td>
<td>MOLECULAR BIOLOGY LABORATORY (ELR) (WIC)</td>
<td></td>
</tr>
<tr>
<td>BSCI 40431</td>
<td>NEUROENDOCRINOLOGY</td>
<td></td>
</tr>
<tr>
<td>BSCI 40432</td>
<td>ENDOCRINOLOGY</td>
<td></td>
</tr>
<tr>
<td>BSCI 40450</td>
<td>BIOLOGICAL CLOCKS</td>
<td></td>
</tr>
<tr>
<td>BSCI 40460</td>
<td>ADVANCED HUMAN PHYSIOLOGY</td>
<td></td>
</tr>
<tr>
<td>BSCI 40462</td>
<td>ADVANCED HUMAN PHYSIOLOGY: READINGS AND CASE STUDIES</td>
<td></td>
</tr>
<tr>
<td>BSCI 40515</td>
<td>ANIMAL BEHAVIOR</td>
<td></td>
</tr>
<tr>
<td>BSCI 40519</td>
<td>HORMONES AND BEHAVIOR</td>
<td></td>
</tr>
<tr>
<td>NEUR 40192</td>
<td>INTERNSHIP IN NEUROSCIENCE (ELR) 2</td>
<td></td>
</tr>
<tr>
<td>NEUR 40195</td>
<td>SPECIAL TOPICS IN NEUROSCIENCE</td>
<td></td>
</tr>
<tr>
<td>NEUR 40196</td>
<td>INDIVIDUAL INVESTIGATION IN NEUROSCIENCE</td>
<td></td>
</tr>
<tr>
<td>PSYC 31634</td>
<td>ANIMAL COGNITION</td>
<td></td>
</tr>
<tr>
<td>PSYC 40111</td>
<td>ABNORMAL PSYCHOLOGY</td>
<td></td>
</tr>
<tr>
<td>PSYC 40383</td>
<td>INTRODUCTION TO CLINICAL PSYCHOLOGY</td>
<td></td>
</tr>
<tr>
<td>PSYC 40446</td>
<td>COGNITIVE NEUROSCIENCE</td>
<td></td>
</tr>
<tr>
<td>PSYC 41043</td>
<td>BASIC LEARNING PROCESSES</td>
<td></td>
</tr>
<tr>
<td>PSYC 41364</td>
<td>DRUGS AND BEHAVIOR</td>
<td></td>
</tr>
<tr>
<td>PSYC 43001</td>
<td>CLINICAL NEUROANATOMY</td>
<td></td>
</tr>
<tr>
<td>PSYC 43002</td>
<td>CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE</td>
<td></td>
</tr>
<tr>
<td>PSYC 43003</td>
<td>NEURAL MECHANISMS OF LEARNING AND MEMORY</td>
<td></td>
</tr>
<tr>
<td>PSYC 47387</td>
<td>NEUROPSYCHOPHARMACOLOGY</td>
<td></td>
</tr>
</tbody>
</table>

### Additional Requirements (courses do not count in major GPA)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>UC 10097</td>
<td>DESTINATION KENT STATE: FIRST YEAR EXPERIENCE</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Foreign Language (see Foreign Language College Requirement below)</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Kent Core Composition</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Kent Core Humanities and Fine Arts (minimum one course each)</td>
<td>9</td>
</tr>
</tbody>
</table>

### Additional Requirements or Concentration

Choose from the following:

- Additional Requirements for Students Not Declaring a Concentration
- Pre-Medicine/Pre-Podiatry Concentration

Minimum Total Credit Hours: **120**

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

2 A maximum 6 credit hours of NEUR 40192 may count towards the major.

## Pre-Medicine/Pre-Podiatry Concentration Requirements

### Concentration Requirements (courses count in major GPA)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSCI 30130</td>
<td>HUMAN PHYSIOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>or BSCI 40340</td>
<td>ANIMAL PHYSIOLOGY</td>
<td></td>
</tr>
<tr>
<td>BSCI 30171</td>
<td>GENERAL MICROBIOLOGY</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 30284</td>
<td>INTRODUCTORY BIOLOGICAL CHEMISTRY</td>
<td>4</td>
</tr>
<tr>
<td>or CHEM 40245</td>
<td>BIOCHEMICAL FOUNDATIONS OF MEDICINE</td>
<td></td>
</tr>
<tr>
<td>CHEM 30475</td>
<td>ORGANIC CHEMISTRY LABORATORY I (ELR)</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 30476</td>
<td>ORGANIC CHEMISTRY LABORATORY II</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 30481</td>
<td>ORGANIC CHEMISTRY I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 30482</td>
<td>ORGANIC CHEMISTRY II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 11022</td>
<td>TRIGONOMETRY (KMCR)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 12002</td>
<td>ANALYTIC GEOMETRY AND CALCULUS I (KMCR)</td>
<td>5</td>
</tr>
<tr>
<td>PHY 13001</td>
<td>GENERAL COLLEGE PHYSICS I (KBS)</td>
<td>5</td>
</tr>
<tr>
<td>&amp; PHY 13021</td>
<td>and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)</td>
<td>5</td>
</tr>
<tr>
<td>or PHY 23101</td>
<td>GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)</td>
<td></td>
</tr>
<tr>
<td>PHY 13002</td>
<td>GENERAL COLLEGE PHYSICS II (KBS)</td>
<td>5</td>
</tr>
<tr>
<td>&amp; PHY 13022</td>
<td>and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)</td>
<td>5</td>
</tr>
<tr>
<td>or PHY 23102</td>
<td>GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)</td>
<td></td>
</tr>
</tbody>
</table>
SOC 12050  INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)  3

Minimum Total Credit Hours:  40

Graduation Requirements

<table>
<thead>
<tr>
<th>Minimum Major GPA</th>
<th>Minimum Overall GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.000</td>
<td>2.000</td>
</tr>
</tbody>
</table>

Foreign Language College Requirement

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.
- Minimum Elementary I and II of the same language

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 begin their university foreign language experience beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by: (1) passing a course beyond the Elementary I through Intermediate II level or (2) receiving credit through Credit by Exam (CBE), the College Level Examination Program (CLEP), the Advanced Placement (AP) exam or credit through the International Baccalaureate (IB) program; or (3) being designated a "native speaker" of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 8 credit hours and two courses, they will complete the remaining hours with general electives.

Roadmaps

- Neuroscience (no concentration)
- Pre-Medicine/Pre-Podiatry Concentration

Neuroscience (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.

<table>
<thead>
<tr>
<th>Semester One</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSCI 10120</td>
<td>BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)</td>
</tr>
<tr>
<td>CHEM 10060</td>
<td>GENERAL CHEMISTRY I (KBS)</td>
</tr>
<tr>
<td>CHEM 10062</td>
<td>GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)</td>
</tr>
<tr>
<td>MATH 11010</td>
<td>ALGEBRA FOR CALCULUS (KMCR)</td>
</tr>
<tr>
<td>NEUR 10100</td>
<td>SEMINAR IN NEUROSCIENCE</td>
</tr>
<tr>
<td>UC 10097</td>
<td>DESTINATION KENT STATE: FIRST YEAR EXPERIENCE</td>
</tr>
<tr>
<td></td>
<td>Credit Hours</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester Two</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSCI 30140</td>
<td>CELL BIOLOGY</td>
</tr>
<tr>
<td>CHEM 10061</td>
<td>GENERAL CHEMISTRY II (KBS)</td>
</tr>
<tr>
<td>CHEM 10063</td>
<td>GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)</td>
</tr>
<tr>
<td>PSYC 11762</td>
<td>GENERAL PSYCHOLOGY (DIVD) (KSS)</td>
</tr>
<tr>
<td>Kent Core Requirement</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Credit Hours</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester Three</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSCI 30156</td>
<td>ELEMENTS OF GENETICS</td>
</tr>
<tr>
<td>NEUR 30100</td>
<td>NEUROSCIENCE I</td>
</tr>
<tr>
<td>PSYC 21621</td>
<td>QUANTITATIVE METHODS IN PSYCHOLOGY I</td>
</tr>
<tr>
<td>Foreign Language Requirement</td>
<td>4</td>
</tr>
<tr>
<td>Kent Core Requirement</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Credit Hours</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester Four</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEUR 30200</td>
<td>NEUROSCIENCE II</td>
</tr>
<tr>
<td>NEUR 30300</td>
<td>EXPERIMENTAL METHODS IN NEUROSCIENCE</td>
</tr>
<tr>
<td>PSYC 31574</td>
<td>RESEARCH METHODS IN PSYCHOLOGY (ELR)</td>
</tr>
<tr>
<td>Foreign Language Requirement</td>
<td>4</td>
</tr>
<tr>
<td>Kent Core Requirement</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Credit Hours</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester Five</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neuroscience Electives</td>
<td>9</td>
</tr>
<tr>
<td>Kent Core Requirement</td>
<td>3</td>
</tr>
<tr>
<td>Kent Core Requirement</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Credit Hours</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester Six</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSCI 40600</td>
<td>or WRITING IN THE BIOLOGICAL SCIENCES (WIC)</td>
</tr>
<tr>
<td>or PSYC 41901</td>
<td>or WRITING IN PSYCHOLOGY (WIC)</td>
</tr>
<tr>
<td>or PSYC 41980</td>
<td>or RESEARCH WRITING IN PSYCHOLOGY (WIC)</td>
</tr>
<tr>
<td>Neuroscience Electives</td>
<td>9</td>
</tr>
<tr>
<td>Kent Core Requirement</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Credit Hours</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester Seven</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neuroscience Electives</td>
<td>6</td>
</tr>
<tr>
<td>General Electives</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Credit Hours</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester Eight</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neuroscience Elective</td>
<td>3</td>
</tr>
<tr>
<td>General Electives</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Credit Hours</td>
</tr>
</tbody>
</table>

| Minimum Total Credit Hours: | 120 |

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.

<table>
<thead>
<tr>
<th>Semester One</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSCI 10120</td>
<td>BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)</td>
</tr>
<tr>
<td>CHEM 10060</td>
<td>GENERAL CHEMISTRY I (KBS)</td>
</tr>
<tr>
<td>CHEM 10062</td>
<td>GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)</td>
</tr>
<tr>
<td>MATH 11010</td>
<td>ALGEBRA FOR CALCULUS (KMCR)</td>
</tr>
<tr>
<td>NEUR 10100</td>
<td>SEMINAR IN NEUROSCIENCE</td>
</tr>
<tr>
<td>UC 10097</td>
<td>DESTINATION KENT STATE: FIRST YEAR EXPERIENCE</td>
</tr>
<tr>
<td></td>
<td>Credit Hours</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester Two</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSCI 30140</td>
<td>CELL BIOLOGY</td>
</tr>
<tr>
<td>CHEM 10061</td>
<td>GENERAL CHEMISTRY II (KBS)</td>
</tr>
<tr>
<td>CHEM 10063</td>
<td>GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)</td>
</tr>
<tr>
<td>PSYC 11762</td>
<td>GENERAL PSYCHOLOGY (DIVD) (KSS)</td>
</tr>
<tr>
<td>Kent Core Requirement</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Credit Hours</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester Three</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSCI 30156</td>
<td>ELEMENTS OF GENETICS</td>
</tr>
<tr>
<td>NEUR 30100</td>
<td>NEUROSCIENCE I</td>
</tr>
<tr>
<td>PSYC 21621</td>
<td>QUANTITATIVE METHODS IN PSYCHOLOGY I</td>
</tr>
<tr>
<td>Foreign Language Requirement</td>
<td>4</td>
</tr>
<tr>
<td>Kent Core Requirement</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Credit Hours</td>
</tr>
</tbody>
</table>
### Semester Three

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSCI 30156</td>
<td>ELEMENTS OF GENETICS</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 30475</td>
<td>ORGANIC CHEMISTRY LABORATORY I (ELR)</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 30481</td>
<td>ORGANIC CHEMISTRY I</td>
<td>3</td>
</tr>
<tr>
<td>NEUR 30100</td>
<td>NEUROSCIENCE I</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 21621</td>
<td>QUANTITATIVE METHODS IN PSYCHOLOGY I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Kent Core Requirement</td>
<td></td>
</tr>
</tbody>
</table>

**Credit Hours**: 16

### Semester Four

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 30476</td>
<td>ORGANIC CHEMISTRY LABORATORY II</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 30482</td>
<td>ORGANIC CHEMISTRY II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 11022</td>
<td>TRIGONOMETRY (KMCR)</td>
<td>3</td>
</tr>
<tr>
<td>NEUR 30200</td>
<td>NEUROSCIENCE II</td>
<td>3</td>
</tr>
<tr>
<td>NEUR 30300</td>
<td>EXPERIMENTAL METHODS IN NEUROSCIENCE</td>
<td>1</td>
</tr>
<tr>
<td>PSYC 31574</td>
<td>RESEARCH METHODS IN PSYCHOLOGY (ELR)</td>
<td>3</td>
</tr>
<tr>
<td>SOC 12050</td>
<td>INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Credit Hours**: 17

### Semester Five

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSCI 30130</td>
<td>HUMAN PHYSIOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ANIMAL PHYSIOLOGY</td>
<td></td>
</tr>
<tr>
<td>BSCI 40430</td>
<td>GENERAL MICROBIOLOGY</td>
<td></td>
</tr>
<tr>
<td>BSCI 30171</td>
<td>GENERAL MICROBIOLOGY</td>
<td>4</td>
</tr>
<tr>
<td>MATH 12002</td>
<td>ANALYTIC GEOMETRY AND CALCULUS I (KMCR)</td>
<td>5</td>
</tr>
<tr>
<td>PHY 13001</td>
<td>GENERAL COLLEGE PHYSICS I (KBS)</td>
<td>5</td>
</tr>
<tr>
<td>&amp; PHY 13021</td>
<td>GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)</td>
<td></td>
</tr>
<tr>
<td>PHY 23101</td>
<td>GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)</td>
<td></td>
</tr>
</tbody>
</table>

**Credit Hours**: 17

### Semester Six

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 30284</td>
<td>INTRODUCTORY BIOLOGICAL CHEMISTRY</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td>BIOCHEMICAL FOUNDATIONS OF MEDICINE</td>
<td></td>
</tr>
<tr>
<td>CHEM 40245</td>
<td>GENERAL COLLEGE PHYSICS II (KBS)</td>
<td>5</td>
</tr>
<tr>
<td>PHY 13002</td>
<td>GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)</td>
<td></td>
</tr>
<tr>
<td>&amp; PHY 13022</td>
<td>GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)</td>
<td></td>
</tr>
<tr>
<td>PHY 23102</td>
<td>GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)</td>
<td></td>
</tr>
<tr>
<td>Neuroscience Electives</td>
<td></td>
<td>5</td>
</tr>
</tbody>
</table>

**Credit Hours**: 17

### Semester Seven

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSCI 40600</td>
<td>WRITING IN THE BIOLOGICAL SCIENCES (WIC)</td>
<td>1</td>
</tr>
<tr>
<td>or</td>
<td>WRITING IN PSYCHOLOGY (WIC)</td>
<td></td>
</tr>
<tr>
<td>PSYC 41901</td>
<td>RESEARCH WRITING IN PSYCHOLOGY (WIC)</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>RES. WRITING IN PSYCHOLOGY (WIC)</td>
<td></td>
</tr>
<tr>
<td>PSYC 41980</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Neuroscience Electives</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Foreign Language</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Kent Core Requirement</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Credit Hours**: 14

### Semester Eight

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neuroscience Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Kent Core Requirement</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Kent Core Requirement</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Credit Hours**: 13

**Minimum Total Credit Hours**: 120