

# B.S. IN NEUROSCIENCE

| Code  | Title  | Credits |
|---|--|---------|
| <b>Major in Neuroscience (B.S.)</b>   |  |         |
| <b>Neuroscience Core</b>  |  |         |
| NSC 130<br>& NSC 130D   | Introduction to Neuroscience<br>and Intro to Neuroscience Lab  | 4       |
| NSC/BIO 358   | Neurobiology   | 3       |
| NSC/BIO 359   | Neurobiology Lab   | 1       |
| NSC 350<br>& NSC 351  | Neuroscience Methods<br>and Neuroscience Methods Lab   | 4       |
| PSY 355   | Research Methods   | 4       |
| NSC 493   | Literature Review in Neuroscience  | 2       |
| NSC 499   | Neuroscience Seminar   | 2       |
| Choose an Applied Experience:   |  | 1-4     |
| NSC 481   | Internship in Neuroscience   |         |
| NSC 496   | Neuroscience Research  |         |
| <b>Fundamentals of Biology Courses</b>  |  |         |
| BIO 124<br>& BIO 124D   | Integrative Biology: Genes, Cells, Change<br>and Integrative Biology: Genes, Cells, Change Lab                         | 4       |
| BIO 128<br>& BIO 128D   | Integrative Biology: Metabolism, Energy, Biodiversity<br>and Integrative Biology: Metabolism, Energy, Biodiversity Lab | 4       |
| Choose two courses from Biology and Biochemistry, at least one of which must be 300-level or above: |  | 8       |
| BIO 214<br>& BIO 215  | Human Anatomy<br>and Human Anatomy Lab   |         |
| BIO 216<br>& BIO 217  | Human Physiology<br>and Human Physiology Lab <sup>5</sup>  |         |
| BIO 238<br>& BIO 239  | Human Anatomy and Physiology<br>and Human Anatomy and Physiology Lab <sup>4</sup>                                      |         |
| BIO 332<br>& BIO 333  | Genetics<br>and Genetics Lab   |         |
| BIO 338<br>& BIO 339  | Endocrinology<br>and Endocrinology Lab   |         |
| BIO 346<br>& BIO 347  | Animal Behavior<br>and Animal Behavior Lab   |         |
| BIO 354<br>& BIO 355  | Cell Biology<br>and Cell Biology Lab <sup>2</sup>  |         |
| BIO 362<br>& BIO 363  | Developmental Biology<br>and Developmental Biology Lab   |         |
| BIO 376<br>& BIO 377  | Animal Physiology<br>and Animal Physiology Lab   |         |
| BIO 396<br>& BIO 397  | Molecular Biology<br>and Molecular Biology Lab <sup>2</sup>  |         |
| CHE 304<br>& CHE 397  | Essentials of Biochemistry<br>and Biochemistry II Lab <sup>3</sup>   |         |
| CHE 388<br>& CHE 389  | Biochemistry I<br>and Biochemistry I Lab <sup>6</sup>  |         |

Choose one Computer Science course: 2-4

|         |  |  |
|---------|--|--|
| COS 101 | Introduction to Procedural Programming |  |
| COS 111 | Introduction to Programming            |  |

#### Fundamentals of Psychology Courses

|          |   |   |
|----------|---|---|
| PSY 101  | Introduction to Psychology I                                | 2 |
| PSY 102  | Introduction to Psychology II                               | 2 |
| PSY 230M | Introduction to Statistical Methods and Experimental Design | 4 |

Choose one Psychology course: 4-5

|                      |  |  |
|----------------------|--|--|
| PSY 323              | Motivation and Emotion   |  |
| PSY 348<br>& PSY 349 | Conditioning and Learning<br>and Conditioning and Learning Lab |  |
| PSY 350              | Cognitive Psychology   |  |
| PSY 440<br>& PSY 441 | Sensation and Perception<br>and Sensation and Perception Lab   |  |

#### Required courses from other departments

|                       |  |   |
|-----------------------|--|---|
| CHE 113<br>& CHE 113D | General Chemistry<br>and General Chemistry Lab             | 4 |
| CHE 214<br>& CHE 215  | General Chemistry II<br>and General Chemistry II Lab       | 4 |
| CHE 224<br>& CHE 225  | Organic Chemistry I<br>and Organic Chemistry I Lab         | 4 |
| MAT 124M              | Calculus 1 <sup>7</sup>                                    | 4 |
| PHY 202<br>& PHY 202D | Introductory Physics I<br>and Introductory Physics I Lab   | 4 |
| PHY 206<br>& PHY 207  | Introductory Physics II<br>and Introductory Physics II Lab | 4 |

| Code                 | Title | Credits        |
|----------------------|-------|----------------|
| Major                |       | 75-81          |
| General Education *  |       | 40-48          |
| Electives            |       | 0-1            |
| <b>Total Credits</b> |       | <b>122-123</b> |

<sup>1</sup> This course carries cross credit in psychological science.

<sup>2</sup> This is a designated research course.

<sup>3</sup> Students requiring CHE 397 for their degree will require an override to take this course concurrently with CHE 304.

<sup>4</sup> BIO 104/BIO 104D, BIO 120/BIO 120D, BIO 122/BIO 122D, or BIO 218 is a prerequisite for this course.

<sup>5</sup> BIO 214/BIO 215 is a prerequisite for this course.

<sup>6</sup> CHE 226/CHE 227 is a prerequisite for this course.

<sup>7</sup> Placement at MAT 124M on the Math and Computer Science department placement exam; MAT 121M, concurrent enrollment in MAT 122, or equivalent high school or college course(s) is a prerequisite for this course.

\* Courses whose number is followed by a letter fulfill a General Education requirement.