### MAJOR REQUIREMENTS (at least 101.5 UNITS)

**Neuroscience Core Courses (44.5-46 units)**
- NEUR 261 Behavioral Neuroscience (4) and NEUR 261L Laboratory (1) Prerequisite: BIOL 111, 111L, and PSYC 104
- BIOL 111 General Biology I (4), BIOL 111A General Biology Seminar (0), and BIOL 111L Laboratory (1) Prerequisite: MATH 121 eligibility, Life Science*
- BIOL 112 General Biology II (4) and BIOL 112L Laboratory (1) Prerequisite: BIOL 111, 111L, and PSYC 104
- BIOL 301 Cell and Molecular Biology (4) and BIOL 301L Laboratory (1) Prerequisite: BIOL 113, 113L, 211L, and CHEM 281
- PSYC 104 General Psychology (4) and PSYC 104L Laboratory (1) Prerequisite: Social Science*

**Neuroscience Core Courses (44.5-46 units)**
- NEUR 219 Psychology Colloquium (0.5-2 units) 0.5 units must be taken for each year of residence for a maximum of 2 units
- PSYC 319 Career Colloquium (1)
- PSYC 321 Methods and Statistics I: Description & Correlation (4) and PSYC 321L Laboratory (0)
- PSYC 322 Methods and Statistics II: Experiment & Inference (4) and NEUR 322L Laboratory (1)
- PSYC 323 Methods and Statistics III: Conducting Research (4) and NEUR 323L Laboratory (1) Satisfies Upper Division Rhetoric requirement
- NEUR 275 Research Techniques in Neuroscience (4) Prerequisite: NEUR 261 & NEUR 261L

**Foundations for Specialty Areas (8 units)**
- PSYC 356 Psychological Assessment & Measurement and PSYC 356L Laboratory (1)
- PSYC 374 Cognition & Memory (4) and PSYC 374L Laboratory (0)
- PSYC 435 Learning & Behavior (4) and PSYC 435L Laboratory (4)
- PSYC 456 Sensation & Perception (4) and PSYC 456L Laboratory (0)

**Choose one course from:**
- MATH 131 Calculus I (4) Satisfies Mathematics requirement OR
- CHEM 491 Biochemistry I (4) and CHEM 491L OR

**Required cognates (25 units):**
- CHEM 111 General Chemistry I (4) & 111L Laboratory (1) Prerequisite: MATH 121 eligibility; CHEM 110 or placement
- CHEM 112 General Chemistry II (4) & 112L Laboratory (1) Prerequisite: CHEM 111 & 111L
- CHEM 113 General Chemistry III (4) & 113L Laboratory (1) Prerequisite: MATH 121, CHEM 112 & 112L
- CHEM 281 Organic Chemistry I (4) and CHEM 281L Laboratory (1)
- CHEM 282 Organic Chemistry II (4) and CHEM 282L Laboratory (1)

**Upper Division Neuroscience Courses (12 units)**
- BIOL 302 Genetics (4) and BIOL 302L Laboratory (1)
- BIOL 303 Developmental Biology (4) and BIOL 303L Laboratory (1)
- BIOL 436 Immunology (4) Prerequisite: BIOL 111, 111L, and PSYC 104
- BIOL 466 Systems Physiology (4) Prerequisite: BIOL 113, 113L, 211L, and CHEM 281

Choose one course from:
- PSYC 314 Psychology of Gender (4) Social Sciences*
- PSYC 482G Eyewitness Memory (2)
- PSYC 484H Adaptation: Theories and Evidence (4)
- PSYC 364 Introduction to Health Psychology (4)

### UNIVERSITY STUDIES FOUNDATIONAL STUDIES (21-34 UNITS)

**I FIRST-YEAR SEMINAR**
- UNST 101A (1), 101B (1) and UNST 101C (1)

**II RHETORICAL SKILLS**
- A. ENGL 111 (3), 112 (3), 113 (3) College Writing OR ENGL 124 Freshman Seminar (4)
- B. Upper Division Rhetoric: PSYC 323 Methods and Statistics III (4)

**III MATHEMATICS**
- One college-level Math course in MATH 108, 115, 121, 155, CPTG 117 or DATA 115(4)

**IV WORLD LANGUAGES**
- Level 3 proficiency (e.g. 153) in one non-English language (4-12)

**V HEALTH AND FITNESS**
- HLSC 120 Lifetime Fitness (2)

### UNIVERSITY STUDIES GENERAL STUDIES (52 UNITS, 16 UPPER DIVISION)

**THEME I SOCIAL SCIENCES (SSCI) 8 units**
- Globalization, Identity and Citizenship (4 units from SSCI 204/205/206/207/208) Prerequisite: ENGL 113/124
- Social Science Breadth Courses (4 units)

**THEME II ARTS AND HUMANITIES (HUMN) 12 units**
- Exploring Culture (4 units from HUMN 104/105/106/107/108/109) Prerequisite: ENGL 111/124
- Arts and Humanities Breadth Courses (4 units)
- Arts and Humanities Breadth Courses (4 units)

**THEME III RELIGIOUS BELIEFS AND PRACTICES (RLGN) 16 units**
- RLGN 304 Adventism in Global Perspective or RLGN 305 Religion in Three Cultures (4) Prerequisite: ENGL 113/124, Junior Status
- A. Spiritual Experience and Expressions (0-4 units)
- B. Beliefs and Heritage (4 units)
- C. Scripture (4 units)
- D. Religion and Society (0-4 units)

**THEME IV NATURAL SCIENCES (NSCI) 12 units**
- Scientific Foundations (4 units from NSCI 404/405/406/407/408)
- Physical Science (4 units) Either life science or physical science must include a laboratory

**THEME V SENIOR SEMINAR**
- UNST 404M/B Religion, Values, and Social Responsibility (4)

* A maximum of 4 units from the Major, and 8 units of Cognates required by the Major, may apply to University Studies General Studies requirements (2018-2019 Undergraduate Academic Bulletin).
The Bachelor of Science degree in Neuroscience is housed within the Department of Psychology but is distinctly interdisciplinary. Required courses are taught by faculty in both Psychology and Biology Departments. It emphasizes the biological correlates of behavior, and it is designed for students who plan to go on to postgraduate work or go into the professional application of the health sciences. The program trains students to think like neuroscientists, that is demonstrating the empirical habits, mastery of knowledge, and practical research skills that will make them competitive applicants for top graduate programs in neuroscience and applied fields such as medicine, pharmacy, and neuropsychology.

CAREER OPPORTUNITIES AND RELATED OCCUPATIONS: Students majoring in this program are prepared to enter graduate work in the following fields: dentistry, medicine, experimental psychology, clinical neuropsychology, biomedical research, clinical pharmacology, and neurophysiology.

EDUCATIONAL QUALIFICATIONS: Professional degrees in dentistry and medicine are required for practice. For biomedical research, clinical pharmacology and neurophysiology, a Ph.D. is required.

JOB OUTLOOK: Employment of medical scientists is projected to grow 8 percent from 2014 to 2024, about as fast as the average for all occupations. Employment of physicians and surgeons is projected to grow 14 percent from 2014 to 2024, much faster than the average for all occupations. Overall employment of psychologists is projected to grow 19 percent from 2014 to 2024, much faster than the average for all occupations.

SALARY: For students interested in laboratory research, the median annual wage for medical scientists was $82,240 in May 2015. The lowest 10 percent earned less than $44,510, and the highest 10 percent earned more than $155,180. According to the Medical Group Management Association’s Physician Compensation and Production Survey, median total compensation for physicians varies with their type of practice. In 2014, physicians practicing primary care received total median annual compensation of $241,273 and physicians practicing in medical specialties received total median annual compensation of $411,852. The median annual wage for psychologists was $72,580 in May 2015.