

# BEHAVIORAL SCIENCES

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## **Faculty**

Duane C. McBride,  
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Herbert W. Helm  
Øystein S. LaBianca  
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## **DEPARTMENT AIMS**

This department aims (1) to introduce students to the salient discoveries and procedures accumulated from research in behavioral sciences disciplines and (2) to empower students to utilize this knowledge in furthering the mission of Seventh-day Adventists: restoring men and women to the image of their Maker. The department fulfills these aims by three principal means: (1) instruction by Christian professors; (2) course work which develops a strong liberal-arts foundation and interdisciplinary preparation leading to many different fields of Christian service; and (3) extracurricular participation by students in voluntary religious activities, community service, and research.

The Department of Behavioral Sciences is organized as a consortium where faculty share expertise and research endeavors in related disciplines. The behavioral sciences are concerned with the study of how human beings think and behave as individuals, and in sociocultural and ecological systems.

**Behavioral Sciences Core Courses—15**

ANTH124 or ANTH200 or SOCI119; SOCI432, SOCI474 or PSYC269, PSYC101, 450.

**Anthropological Core—15**

ANTH124 or 200, ANTH205, ENGL440 or COMM436, ANTH455

**Select at least 9 credits from the following choices:**

ANTH415, 417, 478, 496, BHSC440\*, BIOL330, COMM436, HIST468, FMST350, MUHL458, PLSC460, RELG360 or SOCI360, 425

**Suggested General Education Cognates**

BHSC235, BIOL165 or 208, ECON225, PHIL224, RELT348

**Required Cognates—3**

BHSC230

**Recommended:** For students planning graduate-level training in Anthropology, a foreign language is highly recommended.

\*Students are strongly urged to take an international tour, cleared by the Anthropology advisor.

**Major Field Test:** Majors are required to take the Major Field Test in Sociology or Psychology.

**Anthropological Archaeology Emphasis—39**

(27 credits must be selected from courses numbered 300 or above)

**Behavioral Sciences Core Courses—15**

ANTH124 or 200 or SOCI119; SOCI432, SOCI474 or PSYC269, PSYC101, 450

**Anthropological Archaeology Core—15**

ANTH124 or 200, ANTH205, 435, 478, 496

**Select at least 9 credits from the following choices:**

ANTH440 Topics: Archaeology and the Bible (OTST510)  
ANTH440 Topics: Bible Lands Explorations (OTST514)  
ANTH440 Topics: Archaeology of Palestine (OTST614)  
BIOL330, RELB110

**Suggested General Education Cognates**

BHSC235, BIOL165 or 208, PHIL224, RELT348

**Required Cognates—3**

BHSC230

**Recommended:** For students planning graduate-level training in Anthropology, a foreign language is highly recommended.

**Major Field Test:** Majors are required to take the Major Field Test in either Psychology or Sociology.

**International Community Development Emphasis—39**

(27 credits must be selected from courses numbered 300 or above)

**Behavioral Sciences Core Courses—15**

ANTH124 or 200 or SOCI119; SOCI474 or PSYC269, PSYC101, 450, SOCI432

**Community Development Core—15**

SOCI350, 360, 470, 480

**Select at least 9 credits from the following choices:**

ANTH200, BHSC450, BSAD355, ECON225, SOCI415, 433, 434

**Suggested General Education Cognates**

ANTH200, BHSC220, 235, BIOL208, FDNT230, PHIL224, RELT348, RELP325

**Required Cognates—3**

BHSC230

**Recommended:** A reading knowledge of a foreign language is strongly recommended for those planning on graduate work.

**Major Field Test:** Majors are required to take the Major Field Test in either Sociology or Psychology

\*It is expected that all majors will attend at least one professional conference before graduation.

**Public Health Emphasis—39**

(27 credits must be selected from courses numbered 300 or above)

**Behavioral Sciences Core Courses—15**

ANTH124 or ANTH200 or SOCI119; PSYC101, PSYC269 or SOCI474, PSYC450, SOCI432

**Public Health Core—15**

BHSC440, 450, PSYC319 or 471, SOCI415, 420

**Select at least 9 credits from the following choices:**

ANTH200, ECON225, SOCI120, 350, 360, 433, 434, 470, 480, PSYC450

**Suggested General Education Cognates**

BHSC235, \*BIOL111, \*112 or \*BIOL165; BIOL208, \*CHEM110 or \*CHEM131 and 132, FDNT230, PHIL224, RELT348

**Required Cognates—3**

BHSC230

\*These classes are required to get into graduate school.

**Major Field Test:** Majors are required to take the Major Field Test in either Psychology or Sociology.

**Student Development Emphasis—****40 (Non-Certification Program)****64 (Certification Program)**

(27 credits must be selected from courses numbered 300 or above)

**Core Courses—21**

ANTH200 or SOCI119; BHSC230, PSYC210, PSYC/SOCI432, 433; PSYC450; PSYC269 OR SOCI474

**Emphasis Courses**

PSYC204, 252; 420, 466; SOCI120, 345, 480

**Required General Education—3**

PSYC101

**Required cognates—2+**

EDPC430; EDTE389

**Recommended:** EDPC438**Secondary Teaching Certification****Requirements (optional)—24**

EDPC302; EDTE165, 228, 408, 417, 424, 459, 476, 480, 487, 488. Education requirements are listed on p. 255.

**Major Field Test:** Majors are required to take the Major Field Test in either Psychology or Sociology.

**BS: Family Studies—39**

(27 credits must be selected from courses numbered 300 or above)

**Core Courses—30-33**

BHSC440; FMST115, 310, 350, 454, 456, 460, 470; PSYC220, 252, 420

**Family Studies Electives—6-9**

ANTH420; COMM320; PSYC319, 410, 466; SOCI120, 345, 350, 430, 460; SOWK315,\* and as authorized by advisor.

**Required General Education—3**

PSYC101

**Required Cognates—12**

BHSC230; COMM445; FDNT230; and one of the following: FNCE206, BSAD104, or BSAD210

**Family and Consumer Sciences Emphasis —33**

(27 credits must be selected from courses numbered 300 or above)

**Core Courses—33**

FMST310, 350; 454, 456, 460; BHSC440, 450; PSYC220, 252, 420; SOCI120

**Required General Education—4**

PSYC101; HLED120

**Required Cognates—6**

### **Health Psychology Emphasis—39**

(27 credits must be selected from courses numbered 300 or above)

#### **Core courses—21**

PSYC101; PSYC220 (or other developmental course);  
PSYC269, 432, 433, 434, 450

#### **Emphasis—18**

BHSC450; PSYC210; PSYC319 or SOCI420; PSYC460;  
PSYC465 or PSYC454; PSYC471 or PSYC364

#### **Required Cognates—21-24**

BHSC230; BIOL111, 112, or BIOL165, 166; CHEM110 or 131;  
FDNT230; RELT340

**Major Field Test:** required in Psychology

### **BA: Sociology—30**

30 credits (not including general education courses) are required. Of these, 24 credits must be selected from courses numbered 300 and above.

#### **Core Courses—15**

Introduction: SOCI119  
Methods: SOCI432, 433, 434  
Theory: SOCI474

#### **Substantive Areas—15**

Family: SOCI120  
Criminal Justice: SOCI315 or SOCI345  
Health: SOCI420 or SOCI415  
Race & Gender: SOCI425 or SOCI430  
Policy: SOCI360 or SOCI350

#### **General Education—9**

BHSC220, ANTH200, RELT340

#### **Required Cognates—22**

BHSC230, ECON225, FMST456, PHIL224, PSYC450,  
PSYC101 and any foreign language.

Major field test is required. It is expected that all majors will attend at least one professional conference before graduation.

### **BS: Sociology—38-39**

(27 credits must be selected from courses numbered 300 or above)

#### **Core Courses—29-30**

SOCI119; SOCI345 or SOCI315; SOCI415 or SOCI120;  
SOCI420, 425, 430, 432, 433, 434; 474

#### **Electives—9**

(Choose three of the following four classes) FMST456;  
SOCI410, 460, 470

#### **Required General Education—9**

BHSC230; PSYC101; RELT340

#### **Required Cognates—15**

(The following courses are required choices in your general education or elective program)

ANTH200; BHSC230; ECON225; PHIL224; PSYC450

**Recommended:** A reading knowledge of a foreign language is strongly recommended for those planning on graduate work in Sociology.

**Major Field Test:** Majors are required to take the Major Field Test in Sociology

\* It is expected that all majors will attend at least one professional conference before graduation

### **Deviant Behavior Emphasis—38-39**

(27 credits must be selected from courses numbered 300 or above)

#### **Core Courses—29-30**

SOCI119, 345; SOCI415 or SOCI120; SOCI420, 425, 430,  
432, 433, 434, 474

#### **Emphasis Courses—9**

FMST454; PSYC458; SOCI315

#### **Required General Education—9**

BHSC220; PSYC101; RELT340

#### **Required Cognates—15**

(The following courses are required choices in your general education or elective program)

ANTH200; BHSC230; ECON225; PHIL224; PSYC450

#### **Required Cognates for Emphasis—6**

PSYC420, 460

**Recommended:** A reading knowledge of a foreign language for those planning on graduate work in Sociology.

**Major Field Test:** Majors are required to take the Major Field Test in Sociology.

\*It is expected that all majors will attend at least one professional conference before graduation.

### **Sociology of the Family Emphasis—39**

(27 credits must be selected from courses numbered 300 or above)

#### **Core Courses—24**

SOCI119; SOCI345 or SOCI315; SOCI420, 425, 432, 433,  
434, 474

#### **Emphasis Courses—15**

BHSC440; FMST350, 456; SOCI120, 430

#### **Required General Education—9**

BHSC220; PSYC101; RELT340

#### **Required Cognates—27**

(The following courses are required choices in your general education or elective program)

ANTH200; BHSC230; ECON225; FMST310, 454, 460;  
PHIL224; PSYC420, 450

**Recommended:** A reading knowledge of a foreign language for those planning on graduate work in Sociology.

**Major Field Test:** Majors are required to take the Major Field Test in Sociology.

\*It is expected that all majors will attend at least one professional conference before graduation.

## **MINORS**

All minors require that students earn at least 14 credits in courses numbered 300 and above.

### **Minor in Anthropology—20**

ANTH124 and 200. Students interested in emphasizing archaeology graduate.

**Minor in Family Studies—20**

FDNT230, FMST115, 310, 456, 460. Additional credits chosen in consultation with program advisor.

**Minor in Geography and International Development—21**

GEOG110, ANTH200 or GEOG260; GEOG240 or GEOG335; GEOG475 or GEOG455; SOCI360. Attend a 3-week session at an MSA IDP site (part of field experience or topics courses).

**Management—6**

BSAD515 and 530

**Individual and Organizational Accountability—5**

ACCT625 or ACCT500 or ACCT635 or MKTG540; IDSC640  
or SOCI580 or MSSN630\* or CHMN638

**Research and Practicum Requirements**

**(Capstone Activities)—6**

IDSC680

IDSC698-I

IDSC698-2 or IDSC699

(must do either Projects I & II or the Master's Thesis)

**Development Emphasis Area—6**

(As discussed below)

**TOTAL credits required—40**

**EMPHASIS AREA/CONCENTRATION AREA**

Emphasis area could be developed on either a community or an international development track. Students will select up to 6 credits

# Courses

(Credits)

See inside front cover for symbol code.

## ANTHROPOLOGY

**ANTH124**

**Alt (3)**

An introduction to the anthropological perspective. Topics include cognitive and social aspects of language, biology and the study of culture, origins of culture, archaeology and cultural beginnings, introduction to the study of cultural variation, and models of culture. Offered even years.

**ANTH200**

**(3)**

Comparative study of human diversity and of ways of being human. The concept of culture and ethnography as the primary tool of cultural anthropological research. Salient features of tribal communities, state level policies and modern network society. Globalization and its social, economic and environmental consequences. Understanding “ourselves” and those we call “others.”

**ANTH205**

**Alt (3)**

An introduction to some of the discoveries made by archaeologists and to some of the methods whereby their discoveries are made. Advances in archaeological method and theory over the past 100 years are explained and illustrated. Normally offered odd years.

**ANTH415**

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groups. Examines origins of group conflict and considers avenues of responsible action for resolution.

**BHSC235** **V (3)**

AU/HSI course—see content above.

**BHSC300** **\$ (2)**

Provides an opportunity for the practical application of the theories, principles, and concepts learned in BHSC100. Prerequisite: BHSC100 or permission of Service Learning Coordinator. Does not apply to a major or minor.

**BHSC438** **(1-3)**

Provides an opportunity to study in a focused area within the Behavioral Sciences. A paper is required for more than one credit and may be required for one credit.

**BHSC440** **(1-4)**

Examines emerging issues in the behavioral sciences. Repeatable in different specialized areas.

**BHSC450**



**BHSC450**

**BHSC450**



**GEOG335** (3) **PSYC204** (3)  
 The study of the fundamentals of Geographic Information Systems (GIS). Emphasis on the foundations of these systems, their components and capabilities. Application of psychological principles of behavior as they influence optimal personal, social and career development, with an emphasis on effective strategies for self-management and self-improvement.

**GEOG430** ◆ (3) **PSYC210** \$ (3)  
 Examination of spatial patterns and processes associated with urbanization within the frame work of economy, culture and politics. Study of causes for the rise of health psychology; interrelationships between psychology and health-related disciplines; models of disease and health care; interrelationships between stressful life events, social support, and wellness; illness behavior; psychology of addictive behavior; and behavioral health. Prerequisite: PSYC101.

**GEOG455** ◆ (3) **PSYC220** (3)  
 An integrated study of the causes and geography of natural and man-made disasters. Understanding of extreme event prediction, early warning, and disaster mitigation. Organizations involved in disaster response. Lifespan is an integrative approach to psychological development which emphasizes the interdependency of physical, cognitive, emotional and social development. The interrelatedness of theory, research, and application are seen throughout the entire sequence of human development from conception to death. Prerequisite or corequisite: PSYC101 or written permission of the teacher.

**GEOG460** ◆ (1-3) **PSYC252** (3)  
 Study of selected topics in geography. Topic and credit to be announced in advance. Repeatable with different topics to 9 credits (to 3 credits for graduate students). Current psychological theories relating to psychological development, maturity, and decline as evidenced during the adolescent, youth, middle age, and retirement years. Prerequisite: PSYC101.

**GEOG475** ◆ (3) **PSYC252** V (3)  
 Regional study of physical, economic, and cultural characteristics of major regions of the world. Areas selected for analysis vary from semester to semester. Direct inquires to the department chair. Repeatable for different regions. AU/HSI course—see content above.

**GEOG485** (1-6) **PSYC269** (3)  
 Observation and evaluation of geographical phenomena in the U.S. or foreign countries. May be based upon individual research, organized tours, or expeditions. A formal report is expected. A study of significant schools, individuals and theories in the field of psychology, together with their contributions to present knowledge of behavior. Prerequisite: PSYC101.

**GEOG495** (1-3) **PSYC269** V (3)  
 Independent work on a specified topic under the guidance of department advisor. Repeatable to 9 credits with the consent of the department chair. AU/HSI course—see content above.

**PSYCHOLOGY** **PSYC315** V (3)

**PSYC101** (3)  
 Principles of psychology including the study of growth, perception, learning, thinking, motivation, emotion, personality, and mental health. AU/HSI course. A discussion of human beings at work and how work interfaces with the community. The meaning of work, formal organization, informal group aefedge oT.ebiJT\*(mentale me,d wm9T\*[(edge

**PSYC101** V (3)  
 AU/HSI course—see content above.

**PSYC180** (3)  
 An introduction to the brain and how it works, with an emphasis on processes used in everyday life: perception of our surroundings, memory and other facets of general cognition, and links to addictive behavior. The labs will give hands-on experience with these topics. Students will be exposed to research opportunities.

<b>PSYC364</b>	<b>V (3)</b>	Behavioral Sciences. A paper is required for more than one credit and may be required for one credit.
AU/HSI course—see content above.		
<b>PSYC410</b>	<b>◆ (3)</b>	<b>PSYC445</b> <b>◆ \$ (3)</b>
An introduction to the major theoretical models and concepts for counseling and psychotherapy. Concepts such as the philosophical assumptions, the therapeutic process, and the client/therapist relationship are discussed. Prerequisites: PSYC101, and one of the following: PSYC454, 269 or 460.		A study of how people use and acquire knowledge with emphasis on how people perceive, think, remember, store information, solve problems, and acquire and use language. A weekly lab focuses on experimental techniques that have been used to examine mental processing. Prerequisite: PSYC101 or 180.
<b>PSYC420</b>	<b>◆ (3)</b>	
A study of the multiple aspects of sexuality within a framework of Christian values.		
<b>PSYC425</b>	<b>\$ (3)</b>	
A survey of the psychological processes involved in human language use, including comprehension, acquisition, or language. The relationship of language to other thought processes and its neural correlates will also be discussed. A weekly lab will introduce common experimental methodologies in psycholinguistics. Prerequisite: PSYC101 or 180.		
<b>PSYC/SOCI432</b>	<b>◆ \$ (3)</b>	
Asking researchable questions. Reviewing the literature. Hypothesis formulation. Research methodology emphasizes qualitative approaches but includes discussion of instrumentation, subject selection, and data collection procedures. Andrews' human subject research review process. Informed consent. Writing assignments include theoretical essay, pilot study, second pilot study, research journal. Prerequisite or corequisite: BHSC230 or STAT285.		
<b>PSYC/SOCI433</b>	<b>◆ \$ (3)</b>	
The principles of designing, administrating, interpreting, and writing experimental research, questionnaires and interview schedules. Survey also focuses on coding procedures and scale construction. Structured around a research project, and the interpretation of scientific reports and professional journals. Corequisite: PSYC/SOCI434. Prerequisite: BHSC230 or STAT285 and PSYC432.		
<b>PSYC/SOCI434</b>	<b>◆ \$ (3)</b>	
A study on advanced parametric and non-parametric techniques such as two-way ANOVA, regression and power. The utilization of SPSS in the analysis and interpretation of statistical data. An analysis of professional journals and reports with an emphasis on the statistical reasoning. Corequisite: PSYC/SOCI433. Prerequisite: BHSC230 or STAT285 and PSYC/SOCI432.		
<b>PSYC434</b>	<b>V (4)</b>	
AU/HSI course—see content above.		
<b>PSYC438</b>	<b>(1-3)</b>	
Provides an opportunity to study in a focused area within the		

**PSYC466**

◆ (3)

A survey of assessment, remediation, and adjustment for exceptional children and youth who require special education and related services. Various types of exceptionality are explored such as mental retardation, learning disabilities, emotional or behavioral disorders, giftedness, disorders of communication, and impairment of hearing or sight. Prerequisite: PSYC101. Normally offered odd years.

**PSYC471**

◆ Alt (3)

The theory and techniques of behavior change utilizing principles of conditioning. Applications relevant to health-centered and educational settings are emphasized. Prerequisite: PSYC101. Normally offered even years.

**PSYC480**

(1-8)

Supervised field placement in a human services setting is approved in advance by the department chair. A minimum of 45 hours of fieldwork activity is required for each credit. Consult staff before registering. Open only to departmental majors. Repeatable to 8 credits.

**PSYC486**

◆ (3)

Theory and practice in individual and group testing in the areas of intelligence, aptitude, achievement, personality, and interest.

Evaluation of tests and other instruments for measurement in a human services setting. Prerequisite: PSYC101. Minimum lab fee: \$219.80.

**PSYC480**

society with an emphasis on problems and adjustments within the larger society.

**SOCI425** V (3)

AU/HSI course—see content above.

**SOCI430** ◆ (3)

Significant issues related primarily to the concerns of women as members of American society, but also in cross-cultural perspective. Includes such topics as socialization in sex roles, women in the professions, women in minority groups, the feminization of poverty, and women and substance abuse and crime.

**SOCI432/PSYC432** ◆ \$ (2–3)

Asking researchable questions. Reviewing the literature. Hypothesis formulation. Research methodology emphasizes qualitative approaches but includes discussion of instrumentation, subject selection and data collection procedures. Andrews' human-subject-research review process. Informed consent. Writing assignments include theoretical essay, pilot study, second pilot study, research journal. Prerequisite or Corequisite: BHSC230 or STAT285.

**SOCI/PSYC433** ◆ \$ (3)

The principles of designing, administrating, interpreting, and writing experimental research, questionnaires and interview schedules. Survey also focuses on coding procedures and scale construction. Structured around a research project, and the interpretation of scientific reports and professional journals. Corequisite: PSYC434. Prerequisite: BHSC230 or STAT285 and PSYC432.

**SOCI/PSYC434** ◆ \$ (3)

A study on advanced parametric and non-parametric techniques such as two-way ANOVA, regression and power. The utilization of SPSS in the analysis and interpretation of statistical data. An analysis of professional journals and reports with an emphasis on the statistical reasoning. Corequisite: PSYC/SOCI433. Prerequisite: BHSC230 or STAT285 and PSYC/SOCI432.

**SOCI460** ◆ (2)

The study of cultural and societal perspectives on death and personal and interpersonal dynamics of death and dying.

**SOCI470** ◆ (3)

Overview of the world's population; spatial dimensions of human populations; fertility concepts, measurements, trends, levels, and explanations; mortality and migration; population structures, life chances; population growth, economic development, and the environment.

**SOCI474** ◆ Alt (3)

The roots of self-conscious social thought and the rise of sociology and anthropology as scientific disciplines in the 19th century. Major theoretical orientations in their fields, proponents, and impact on present-day sociology and anthropology are reviewed. Normally offered odd years.

**SOCI480** (1–8)

Supervised field placement in a human services setting is approved in advance by the department chair. A minimum of 45 hours of fieldwork is required for each credit. Open only to departmental majors. Repeatable to 8 credits.

**SOCI488** V (3)

AU/HSI course. The structure and development of the modern urban community with emphasis on ecological and demographic features of urban life. Normally offered even years.

**SOCI495** (1–3)

Individual assignments and/or reports and/or individualized research in sociology are set up on a contract basis with no more than 3 credits per semester. Students may repeat or take any combination of departmental independent study courses for up to 6 credits. Consult staff before registering.

**SOCI520** (2)

Community development refers to the practice of planning and implementing projects to improve the quality of life for people living in poverty, both locally and internationally. Development will be presented as the building of social capital in our communities that enables them to function at a higher and more efficient level. Building on the core Christian principles that emphasize development, this course will provide students with a better understanding of community, while applying basic development concepts to local and international realities.

**SOCI530** (2)

Introduction to various methods for assessing community needs and mapping community capacity to address those needs.

**SOCI535** (2)

Building on assessment and capacity mapping, the related topics of program planning, budgeting and grant-writing are presented. Hands-on experience is sought, linking classroom instruction and real community situations.

**SOCI545** (2)

Strategies for implementation. Review of various methods of evaluation with emphasis on measuring outcomes and assessing quality in community program development.

**SOCI550/350** (2)

Develops basic knowledge and skills for policy analysis, formulation and critical challenge within local and international contexts. Examines the determining factors affecting public policy in the United States as compared with other systems. Provides framework for analysis of social problems and policies, as they impact development and practice in human services.

**SOCI580**

(1-2)

Topics include philosophical and spiritual foundations, profiles in leadership, strategic planning, grantsmanship, networking and interagency relations, managing volunteers, program evaluation.

**SOCI698**

(1-3)

Open only to students in the MSA in Community Development.

# BEHAVIORAL NEUROSCIENCE

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**Faculty**

John Stout,  
Karl Bailey, , Psychology  
Gordon Atkins, Advisor, Biology  
Herbert Helm, Advisor, Psychology  
Shandelle Henson, Advisor, Mathematics  
David Mbungu, Advisor, Biology  
Duane McBride, Advisor, Behavioral Science  
John Berez, Psychology  
James Hayward, Biology  
Derrick Proctor, Psychology  
David Steen, Biology

Academic Programs	Credits
BS: Biology	
Neuroscience emphasis	67
Behavior/Mathematics emphasis	67
BS: Psychology	
Behavioral Neuroscience emphasis	68

Behavioral Neuroscience is a new interdisciplinary program at Andrews University that is based in Behavioral Science, Biology and Mathematics. It has been established with the support of an approximately one-half million dollar grant from the National Science Foundation. Its purpose is to provide new opportunities for undergraduates to prepare for exciting careers in the fascinating, rapidly growing scientific fields which involve the study of the brain and its control of behavior. Students will be involved in hands-on, laboratory experiences, using the latest equipment as well as class work which will emphasize neuronal function, processing by the brain and the latest understanding of topics such as perception, memory, cognition, sensory input, the basis for mental and emotional disorders, drug addiction and other topics. Research with a faculty mentor is an integral part of the program and is supported by student scholarships provided by the National Science Foundation grant. Students who enter this Behavioral Neuroscience program will complete a common core of classes and choose one of three emphases outlined below to complete a BS degree in either Biology or Psychology.

## Undergraduate Programs

**Behavioral Neuroscience Core—38-40 + 3 Gen. Ed.**

General Education: PSYC180-3  
BIOL165, 166, ZOOL475, CHEM131, 132  
CHEM231, 232, 241, 242 or PHYS141, 142 or PHYS241, 242,  
271, 272  
PSYC364, 445, 449