BEHAVIORAL SCIENCES

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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.

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.

TEACHER CERTIFICATION
Students seeking teacher certification on the secondary level may enroll in the BS in Behavioral Sciences (Student Development Emphasis), the Behavioral Sciences minor in teacher certification, or the Sociology minor. Elementary certification is available only for the Behavioral Sciences minor in teacher certification. See the School of Education for full details.

MINORS, COGNATES, AND ELECTIVES
Majors should take advantage of the variety of undergraduate courses available at Andrews to acquire a broad education. Combining behavioral science courses with other areas such as business, health, and language provides avenues for reaching individual professional goals. Students should counsel with advisers in selecting cognates and electives. Volunteer work is most beneficial and majors are urged to seek opportunities through the Community Service Assistantship Program (CSAP). Those planning to pursue graduate studies should seek opportunities in research.

RESEARCH SEQUENCE
It is strongly recommended that all BS majors take the Research Methods Sequence during their junior year.

Undergraduate Programs

BS: Behavioral Sciences—39
(27 credits must be selected from courses numbered 300 or above)

Core Courses—18
ANTH200 or SOCI119, BHSC220;
PSYC210, 450, PSYC/SOCI432;
PSYC 469 or SOCI474.

Required General Education
PSYC101

The remaining credits are to be selected from at least two of the areas offered in the department or as specified in an area of emphasis below. Majors are required to take the major field test in either psychology or sociology. Those with specific vocational goals may wish to consider one of the following areas of emphasis:

Anthropology Emphasis—40
(27 credits must be selected from courses numbered 300 or above)

Core Courses—21
ANTH200; BHSC230, PSYC210,
PSYC/SOCI432; PSYC/SOCI433;
PSYC/SOCI434; PSYC450, PSYC469 or
SOCI474

Emphasis Courses—18
ANTH124, 205, 415, 417, 420, 496

Required General Education—6
BHSC235; PSYC101

Required Cognates
BIOL449, COMM436; ENGL440;

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Anthropological Archaeology Emphasis—39
(27 credits must be selected from courses numbered 300 or above)

Core Courses—21
ANTH200; BHSC230, PSYC210,
PSYC/SOCI432; PSYC/SOCI433; PSYC450;
PSYC469 OR SOCI474

Emphasis Courses—18
ANTH124; ANTH205; ANTH420;
ANTH478; ANTH496; ANTH435

Required General Education—3
PSYC101

Required Cognates—18–20
BIOL155 or BIOL204; BIOL449; GEOG335,
REL210

Recommended:
PSYC/SOCI434
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 Anthropology or
Sociology.

Public Health Emphasis—40
27 credits must be selected from courses
numbered 300 or above)

Core Courses—24
ANTH200 or SOCI119; BHSC230,
PSYC210, PSYC/SOCI432; PSYC/SOCI433;
PSYC/SOCI434; PSYC450; PSYC469 OR
SOCI474

Emphasis Courses—16
BHSC450; PSYC440; PSYC319; PSYC460
OR PSYC471; SOCI420; SOCI415

Required General Education—3
PSYC101

Required Cognates—18–21
(27 credits must be selected from courses numbered 300 or above)

Core Courses—21
ANTH200 or SOCI119; BHSC230, PSYC210,
PSYC/SOCI432; PSYC/SOCI433; PSYC450;
PSYC469 OR SOCI474

Emphasis Courses
PSYC204; 251 or 252; 420, 466; SOCI120,
345, 480

Required General Education—3
PSYC101

Required cognates—2+
EDPC430; EDTE389
Recommended: EDPC438

Secondary Teaching Certification
Requirements (optional)—24

EDCI486; EDCP302; EDTE215, 354, 417,
424, 459, 465

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
FMST115; FMST310; FMST350; FMST440;
FMST454; FMST456; FMST460; FMST470;
PSYC251; PSYC252; PSYC420

Family Studies Electives—6–9
ANTH420; PSYC119; PSYC410 or
PSYC420; SOWK320; PSYC466 or EDPC478,
SOCI120; SOCI430; SOCI460; COMM320;
EDRE434 or EDRE376; SOWK225

Required General Education—3
PSYC101

Required Cognates—12
BHSC230; COMM440; FDN230; FNCE206

Life Management Education Emphasis—33
(27 credits must be selected from courses numbered 300 or above)

Core Courses—33
FMST310; FMST350; FMST454; FMST456;
FMST460; BHSC450; BHSC450; PSYC251;
PSYC252; PSYC420; SOCI120

Required General Education—5
PSYC101; HLED130

Required Cognates—6
FDNT230; FNCE206

BS: Psychology
Three options are available—the General
Program, the Pre-Professional Program, and Health
Psychology Emphasis. The Pre-Professional Program
is for students planning a graduate degree.

All students should consult their adviser in regard to their psychology
classes, general or elective classes, and an elective
minor. Classes should be chosen with occupational
goals in mind. Students planning on graduate school
should choose classes related to that area of
specialization.

Pre-Professional Program—40
(27 credits must be selected from courses numbered 300 or above)

Introduction—3
PSYC101

Content Courses (Groups A, B, C) A
minimum of four courses from Group A & B—15
Core Courses (minimum - 1 course from this group)
PSYC210; PSYC364; PSYC449; PSYC465;
PSYC471; ZOOL484

Group B (minimum - 2 courses from this group)
PSYC220; PSYC450; PSYC454; PSYC460

Group C ( minimum - 1 course)
PSYC410; PSYC486

Methodology—3
PSYC432

Integrative—5
PSYC469; PSYC480

Electives—14
Electives may be chosen from Content Courses
not taken to meet minimum requirements, or
from additional Psychology courses chosen
with approval of the advisor.

General Education—3
RELT340

Required Cognates—13–16
(27 credits must be selected from courses numbered 300 or above)

Introduction—3
PSYC101

Content Courses (Groups A, B, C) A
minimum of four courses from Group A & B—15
Core Courses (minimum - 1 course from this group)
PSYC210; PSYC364; PSYC449; PSYC465;
PSYC471; ZOOL484

Group B (minimum - 2 courses from this group)
PSYC220; PSYC450; PSYC454; PSYC460

Group C ( minimum - 1 course)
PSYC410; PSYC486

Methodology—3
PSYC432

Integrative—5
PSYC469; PSYC480

Electives—14
Electives may be chosen from Content Courses
not taken to meet minimum requirements, or
from additional Psychology courses chosen
with approval of the advisor.

General Education—3
RELT340

Required Cognates—13–16
(27 credits must be selected from courses numbered 300 or above)

Introduction—3
PSYC101

Content Courses (Groups A, B, C) A
minimum of four courses from Group A & B—15
Core Courses (minimum - 1 course from this group)
PSYC210; PSYC364; PSYC449; PSYC465;
PSYC471; ZOOL484

Group B (minimum - 2 courses from this group)
PSYC220; PSYC450; PSYC454; PSYC460

Group C ( minimum - 1 course)
PSYC410; PSYC486

Methodology—3
PSYC432

Integrative—5
PSYC469; PSYC480

Electives—14
Electives may be chosen from Content Courses
not taken to meet minimum requirements, or
from additional Psychology courses chosen
with approval of the advisor.

General Education—3
RELT340

Required Cognates—13–16
(27 credits must be selected from courses numbered 300 or above)

Introduction—3
PSYC101

Content Courses (Groups A, B, C) A
minimum of four courses from Group A & B—15
Core Courses (minimum - 1 course from this group)
PSYC210; PSYC364; PSYC449; PSYC465;
PSYC471; ZOOL484

Group B (minimum - 2 courses from this group)
PSYC220; PSYC450; PSYC454; PSYC460

Group C ( minimum - 1 course)
PSYC410; PSYC486

Methodology—3
PSYC432

Integrative—5
PSYC469; PSYC480

Electives—14
Electives may be chosen from Content Courses
not taken to meet minimum requirements, or
from additional Psychology courses chosen
with approval of the advisor.

Health Psychology Emphasis—39
(27 credits must be selected from courses numbered 300 or above)

Core courses—18
BHSC230; PSYC101; PSYC251 or
PSYC252; PSYC343; PSYC344; PSYC450;
PSYC469

Emphasis—18
BHSC450; PSYC210; PSYC319 OR
SOCI420; PSYC460; PSYC465 or PSYC454;
PSYC471 or PSYC364

General Education—3
RELT340
Required Cognates—21-24
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 SOCI420; SOCI425; SOCI430; SOCI432; SOCI433; SOCI434; SOCI474
Electives—9
(Choose 3 of the following 4 classes)
SOCI410; SOCI440; SOCI460; SOCI470
Required Cognates—15
Required General Education—9
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 SOCI420; SOCI425; SOCI430; SOCI432; SOCI433; SOCI434; SOCI474
Electives—9
(Choose 3 of the following 4 classes)
SOCI410; SOCI440; SOCI460; SOCI470
Required Cognates—15
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.

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; SOCI432; SOCI433; SOCI434; SOCI425; SOCI474
Emphasis Courses—15
FMST350; SOCI120; BHSC440; SOCI440
Required General Education—9
PSYC101; BHSC220; RELT340
Required Cognates—27
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.

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 should select ANTH124, 205, 336, 496. Recommended cognates for students interested in archaeology include ARCH260; BOT468 or ZOOL458; PHTO115; DGME125; RELT210.

Minor in Behavioral Sciences—20
Selected from at least three of the following five areas: anthropology, family studies, geography, psychology or sociology. Students choosing this minor should consult with the chair of the department.

Minor in Behavioral Sciences—24
Teacher certification emphasis
PSYC101, 364, 450; SOCI119, 432; one of PSYC251, 252; any three from BHSC220; PSYC454, 460, 465, 469; SOCI345, 425.

Minor in Family Studies—20
FDNT230, FMST115, 310, 456, 460. Additional credits chosen in consultation with program adviser.

Minor in Geography—20
GEOG110, 240, 260, 435, 475; additional credits to be selected from BIOL487; PHY1110, or any other geography course not previously taken, including a repeat of GEOG475 (with different content).

Minor in Psychology—20
PSYC101, at least one of PSYC450, 454, 460; at least one of 210, 364, 432, 471

Minor in Sociology—20
SOCI119; one of BHSC220, SOC1120, 425 or 430; one of SOCI315, 345 or 415; one of SOCI360, 420 or 470; SOCI474 or 475

Graduate Programs

Master of Science in Administration (MSA): Community and International Development
Nethery Hall 123
Phone: 616-471-3515
Fax: 616-471-3108
Email: jhopkins@andrews.edu
www.andrews.edu/GRAD/Idp

Administration
James H. Hopkins, Director
Glylein S. LaBianca, Coordinator for Planning, Partnerships and Research

Concentration Advisors:
Lionel Matthews, International Development
Sue Murray, Family & Parent Advocacy
Larry Ulery, Service-Learning Leadership
Duane McBride, HIV/AIDS & Substance Abuse Prevention
James Hopkins, Church-based Community Development
Herb Helm, Community Development Research
Sharon Gillespie, Community Health

The Department of Behavioral Sciences offers master’s level education leading to the MSA with emphasis in Community and International Development. The competencies that graduates are expected to acquire include an introductory acquaintance with the social science foundations of community development, especially with regard to understanding the causes of poverty and the meaning of people-centered development; skills related to planning, implementing and evaluating development projects, including grantsmanship; knowledge of basic principles of organizational behavior, leadership and management as it relates to not-for-profit organizations; understanding of ethical principles and accounting procedures for assuring individual and organizational accountability; competency in at least one special area of concentration, ideally in a field where the student has had some previous experience and background; mastery of social research methods appropriate to their chosen field of concentration; and the ability to communicate effectively to stakeholders about their community development program and plans.

Depending in part on their previous work experience, graduates who pursue community development emphases may find employment working for inner city development agencies; education-based service learning organizations; church-based community service organizations; grassroots community advocacy groups; and a host of...
private voluntary organizations such as Habitat for Humanity, United Way, and the Red Cross.

Graduates who pursue international development emphases may find employment working overseas for international relief and development agencies such as ADRA, CARE, World Vision, Africare, Oxfam, Peace Core, United Nations, as well as for church-based mission programs. There are, of course, also numerous positions related to overseas development here in the United States as well, such as at the head offices of the organizations just mentioned.

But graduates are not limited by their concentration to opportunities in the humanitarian assistance field; their training makes them viable candidates for a host of positions requiring persons with skills in grant writing and not-for-profit administration, including education, health care, community arts promotion, and philanthropy. This is because graduates are prepared to assist their employing organizations to identify their goals and to facilitate the process of planning and the formation of cooperative partnerships by means of which goals are achieved.

ADMINISTRATION OF THE PROGRAM

The MSA in Community and International Development Program is housed in the Department of Behavioral Sciences, which is a part of the College of Arts and Sciences. The program director reports to the faculty and chair of the department and, as needed, to the faculty and deans of the College of Arts and Sciences. Informally, the on-campus MSA program enjoys a consultative and advisory relationship with the MSA Council, which administers the off-campus MSA in International Development, housed in the Office of Affiliation and Extension Programs.

PREREQUISITES

To be admitted to regular standing in this MSA program, students must
• Qualify for general admission into graduate studies at Andrews University (see p. 33)
• Have a four-year baccalaureate degree or its equivalent
• Have completed an undergraduate course in statistics
• Have at least one year’s full-time experience in the humanitarian assistance field or equivalent
• Demonstrate computer literacy skills on the level of general word processing and internet usage
• Verify access to world wide web, the internet and fax
• Where appropriate, provide evidence of employer support for student participation in the program

MSA: Community and International Development—34

Core Courses—28
Social Science Foundations—6
SOCIS520 or MSSN627; SOCIS432 or EDPC622; ANTH417 or MSSN615 or ANTH600
Planning/Evaluation—6
SOCIS530; SOCIS535; SOCI545
Management—6
BSAD515; BSAD530
Individual and Organizational Accountability—5
ACCT625 or ACCT500 or ACCT635; IDSC640 or SOCI580
Research and Practicum Requirements (Capstone Activities)—5
IDSC680, IDSC698-1 and IDSC698-2 or IDSC699 (must do either Projects I & II or the Master’s Thesis)
Development Concentration—6
(As discussed below)
Total credits required 34

CONCENTRATION IN INTERNATIONAL DEVELOPMENT (normally taken off campus)

Students selecting a concentration in international development are required to complete a minimum of six semester credits in a given specialization area. Examples of concentrations being offered or proposed in collaboration with ADRA are: responding to complex emergencies; employer relations; institution strengthening, urban development; international agriculture; food security; economic development; peace and conflict resolution; AIDS and behavior; and helping refugees and displaced persons. Students should consult with the Director of the Off-Campus MSA in International Development for information about when and where these concentrations will be offered around the world.

CONCENTRATIONS IN COMMUNITY DEVELOPMENT

The concentrations in community development reflect the interest and strengths of the department’s faculty and resources and draw on courses offered in various schools and departments here on campus. Students should consult with the Director of the on-campus MSA and with the appropriate concentration advisor for review of prerequisite requirements needed to start a given concentration and for guidance in planning for its completion.

Service Learning—min. 6
EDPC554; ANTH415 or MSSN618; SOWK410
Family and Parenting Advocacy—min. 6
FMST454; FMST456; EDP636
Church-Based Community Development—min. 6
CHMN544; MSSN618; ANTH415
AIDS and Substance Abuse Prevention—min. 6
SOC145; PSYC455; PSYC458
Community Development Research—min. 6
EDRM604; EDRM605
Community Health—min. 6
BHSC450; FDNT421 and FDNT422 or FDNT585*; HLED420; FDNT469
*Prerequisites

GRADUATE CERTIFICATES

Graduate certificates may be added as an option and offered in conjunction with focused study in core curricular areas such as social science foundations, planning and evaluation, management, and individual and organizational accountability or in conjunction with the focused study in concentration areas such as food security, economic development, health and nutrition, or emergency preparedness and response. In addition to successfully completing a minimum of six credits of focused course work, students must also complete a three semester credit web-based certificate seminar (IDSC640 Topics: Professional Seminar), two semester credits of a field practicum, and a synthesis project for one semester credit.

Interested individuals should consult with the program director for further information about which graduate certificates will be offered during a given school year and how to proceed with enrollment.

Graduate certificates are developed and offered in accordance with standards set by the Graduate Council. While they serve to give evidence of focused study in a given field of specialization at the graduate level, they do not take the place of certificates and licenses offered by professional associations and guilds.

Courses

See inside front cover for symbol code.

ANTHROPOLOGY

ANTH124
Introduction to Anthropology
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
Cultural Anthropology
The study of culture and cultural variation. The contemporary beliefs, values, institutions, and material way of life of people in North America are contrasted with those of people living in other regions of the world today and in the past.

ANTH205
Introduction to Archaeology
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
(was ANTH415)
Urban Anthropology
An introduction to ethnographic approaches to understanding urban populations and problems. Special emphasis placed on examining the uses of quantitative methods in the design of urban community initiatives.

ANTH417
Applied/Development Anthropology
An introduction to cultural anthropology with special emphasis on principles and techniques of research applicable to community and international development.

ANTH420
Food and Culture
An analysis of the role of food in human affairs with special emphasis on understanding who is well fed and who is hungry among the world’s peoples and why such huge differences exist in the level of food security among the world’s people.

ANTH435
Museum and Lab Methods
Methods for preparation and preservation of archaeological finds. Conservation, cleaning, cataloguing, and classification. Analysis of lithics,
ceramics, faunal and floral remains, metals, and glass.

ANTH440  ?  (1-3)
(was ANTH500)
Topics in Anthropology
Topics in cross-cultural anthropology. Repeatable as topics vary.

ANTH478  ?  (3)
Archaeological and Ethnographical Perspectives on the Middle East

ANTH496  ?  (1-8)
Supervised Fieldwork in Anthropology or Archaeology
Students may apply to participate as trainees on research projects sponsored either by the Behavioral Sciences Department or the Institute of Archaeology.

ANTH600  (2-3)
Seminar in Cultural Anthropology
The study of culture and cultural variation. The contemporary beliefs, values, institutions and material way of life of people in North America are contrasted with those of people living in other regions of the world today and in the past.

BEHAVIORAL SCIENCE

BHSC100  (2)
Philosophy of Service
Provides a theoretical and practical basis for understanding and meeting needs of communities and individuals. Course materials include works from Christian and secular sources. Students develop an individualized practical plan to understand and meet needs. Does not apply to a major or minor.

BHSC220  (3)
An Interdisciplinary Approach to Contemporary Social Issues
Issues may include drug abuse, the family, crime/violence and punishment, AIDS, poverty, and health care. Integrates foundational social science with a Christian perspective to help students understand the origins of current societal issues and strategies for addressing those issues.

BHSC235  (3)
Culture, Place and Interdependence
Uses and integrates concepts from anthropology, geography and other sciences to help students understand how human culture and natural habitat create regional, ethnic, religious and other social groups. Examines origins of group conflict and considers avenues of responsible action for resolution.

BHSC300  (2)
Philosophy of Service Fieldwork
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.

BHSC440  (1-3)
Topics in _________________
Examines emerging issues in the behavioral sciences. Repeatable in different specialized areas.

BHSC450  (3)
(merges BHSC440 Topics in Community Disease with BHSC440 Topics in Etiology & Disease)
Community Health and Human Disease
Examines in-depth emerging issues in the behavioral sciences. May be repeated in different specialized areas.

BHSC495  (1-3)
Independent Study/Readings/Research/Project in Behavioral Sciences
Individual assignments and/or reports and/or individualized research in behavioral sciences 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.

BHSC590  (1-3)
Internship
To be arranged in cooperation with the student’s adviser.

BHSC648  (1-2)
Workshop
Provides an opportunity to study in a focused area within the behavioral sciences.

BHSC690  (1-3)
Independent Study/Readings/Research/Project in Behavioral Sciences

FAMILY STUDIES

FMST115  (3)
Introduction to Family Studies
Study of the conceptual framework for the discipline and exploration of contemporary issues and trends in society as related to families.

FMST310  (3)
Parent-Child Relationships
Study of the concepts, challenges, and changes in the parent/child relationship including contemporary strategies, parenting in diverse family types, and changing parenting roles throughout the life cycle.

FMST350  (3)
Family Cultural Perspectives
Study of the family as a social institution, its biological and cultural foundations, and its historic development and changing structure and function. Cross-cultural uniqueness is examined.

FMST454  ?  (3)
Family Violence Across the Lifespan
Study of factors contributing to abuse in the family with emphasis on prevention of domestic violence.

FMST456  Alt ?  (3)
Marriage and the Family
Study of the family and the marriage relationship from a multicultural perspective, focusing on diversity and strengths of families, developing and maintaining satisfying intimate relationships, trends in family structure, family dynamics and the conceptual frameworks from which researchers, theoreticians and clinicians look at families.

FMST460  ?  (3)
Management and Decision Making in the Family
Principles of sound management of resources including time, money, and energy as they relate to individuals and groups throughout the lifespan, with emphasis on the family.

FMST470  (1-8)
Field Experience
Supervised experience in observing, planning, directing, and/or assisting families in various home or organizational environments. Repeatable to 8 credits.

GEOGRAPHY

GEOG110  (3)
Survey of Geography
A survey of major geographic perspectives: physical, human, and regional. Applies toward General Education social science requirements.

GEOG240  $  (3)
Physical Geography
The physical environment in which human societies exist; the earth’s crust, its water systems, land systems, and climatic features.

GEOG245  (3)
Introduction to Meteorology and Climatology
Emphasis on atmospheric processes and regional distribution and classification of the world’s climate.

GEOG260  (3)
Cultural Geography
The geographic viewpoint of the human occupancy of the earth in relation to the environment; including aspects of population, settlement, language, religion, and economy; a generalized survey of major world cultural areas to integrate course elements.

GEOG260  V  (3)
Cultural Geography
Distance education—see content above.

GEOG335  (3)
**Introduction to Geographic Information Systems**
The study of the fundamentals of Geographic Information Systems (GIS). Emphasis on the foundations of these systems, their components and capabilities.

**GEOG430**
Urban Geography
Examination of spatial patterns and processes associated with urbanization within the framework of economy, culture and politics.

**GEOG455**
Environmental Disasters
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.

**GEOG460**
Topics in __________
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).

**GEOG475**
Regional Geography: __________
Regional study of physical, economic, and cultural characteristics of major regions of the world. Areas selected for analysis vary from quarter to quarter. Direct inquires to the department chair. Repeatable for different regions.

**GEOG485**
Geography Field Experience
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.

**GEOG495**
Independent Study
Independent work on a specified topic under the guidance of department adviser. Repeatable to 9 credits with the consent of the department chair.

**PSYCHOLOGY**

**PSYC101**
Introduction to Psychology
Principles of psychology including the study of growth, perception, learning, thinking, motivation, emotion, personality, and mental health.

**PSYC101**
Introduction to Psychology—Distance education—see content above.

**PSYC204**
Dynamics of Personal and Social Adjustment
Application of psychological principles of behavior as they influence optimal personal and social adjustment, with an emphasis on group dynamics.

**PSYC210**
Introduction to Health Psychology
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.

**PSYC220**
Human Development—Lifespan
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: PSYC101.

**PSYC251**
Psychology of Early Development
An intensive study of current psychological theories relating to environmental influences during prenatal, infant, and childhood years. Prerequisite: PSYC101.

**PSYC252**
The Psychology of Adolescence, Youth, and Aging
Distance education—see content above.

**PSYC315**
Organization and Work
Distance education course. A discussion of human beings at work and how work interfaces with the community. The meaning of work, formal organization, informal group activity, occupational status and mobility, the structure and function of labor unions, and industry-community relationships are examined.

**PSYC319**
Stress Management
An introduction to stress along with signs and symptoms of stress and identification of stressors in a person's life. Students learn how to increase stress tolerance and implement change.

**PSYC364**
Learning and Behavior
A study of theories of learning which evaluates connections between learning and behavioral processes within and between humans and animals. A lab fee may be required. Prerequisite: PSYC101.

**PSYC364**
Learning and Behavior—Distance education—see content above.

**PSYC410**
Introduction to Counseling & Psychotherapy
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, 460 or 469.

**PSYC420**
Human Sexuality
A study of the multiple aspects of sexuality within a framework of health psychology. Prerequisite: PSYC101.

**PSYC432**
(merges SOCI427; parts of SOCI306, 428, 465)
Research Methods II: Introduction

**PSYC433**
(merges SOCI428, 429)
Research Methods III: Advanced Research Design-Experimental and Survey
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 and PSYC432.

**PSYC434**
(merges PSYC354, part of PSYC429)
Research Methods IV: Advanced Statistical Analysis and SPSS
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: PSYC434. Prerequisite: BHSC230 and PSYC432.

**PSYC438**
Workshop
Provides an opportunity to study in a focused area within the Behavioral Sciences. A paper is required for more than one credit.

**PSYC449**
Psychopharmacology
Examination of current psychotropic drugs, how they affect human perception and behavior, and how they are used in clinical evaluation. Prerequisites: PSYC101; BIOL111,112 or BIOL165,166.

**PSYC450**
Social Psychology
A study of human behavior within a group context. Included are attitudes, social roles, collective behavior, and the dynamic aspects of human interaction. Lab fee may be required. Prerequisites: PSYC101 and SOCI119 or permission of instructor.

**PSYC454**
Theories of Personality
Integrates subfields of psychology to enhance understanding of the individual personality. Prerequisite: PSYC101.

**PSYC455**
Treatment of Substance Abuse
An overview of treatment techniques and basic...
prevention strategies including specific training in assessment and therapeutic techniques, examining the relationship between etiology and treatment. Treatment evaluation discussed. At-risk, vulnerable populations receive special consideration. Prerequisite: PSYC101; Prerequisite or corequisite: SOCI415.

PSYC448 Psychological Assessment 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 with a focus on their worth and limitations. A lab fee may be required. Prerequisite: PSYC101, 354.

Focuses on the dilemmas facing industrialized nations and developing nations in coping with severe global inequalities and poverty. Analyzes the popular strategies and explanations used by governments and non-governmental organizations (NGOs) to deal with these challenges. Normally offered odd years.

SOCI410 Social Gerontology A study of aging and ageism in the United States, including demographic trends, societal attitudes, problems of the elderly, and national policies relating to senior citizens in the cultural context of American society. Normally offered even years.

SOCI415 Substance Abuse in American Society An overview of substance-use terminology, historical issues, definitions, epidemiology, consequences and drugs of abuse within an American cultural and historical framework.

SOCI420 Medical Socio-Geography Analysis of the relationship between social characteristics and the incidence and prevalence of disease, as well as geographical determinants of health and medical systems. Normally offered even years.

SOCI425 Racial and Ethnic Relations A study of the distinctive racial and cultural minorities in American society with an emphasis on problems and adjustments within the larger society.

SOCI425 Racial and Ethnic Relations Distance education—see content above.

SOCI429 Gender Roles in Contemporary Society 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 Gender Roles in Contemporary Society Distance education—see content above.


SOCI/PSYC433 Research Methods III: Advanced Research Design-Experimental and Survey The principles of designing, administering, 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 and PSYC432.

SOCI434
(merges PSYC354, part of PSYC429)
Research Methods IV: Advanced Statistical Analysis and SPSS
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 and PSYC/SOCI432.

SOCI440
Sociology of the Family
The family as a social institution, its biological and cultural foundations, and its historic development and changing structure and function. The interaction of marriage and parenthood and some disorganizing factors in contemporary society examined.

SOCI460
Death and Grief in Contemporary Society
The study of cultural and societal perspectives on death and personal and interpersonal dynamics of death and dying.

SOCI470
Demography
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
Social Thought and Theory
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
Field Experience
Supervised field placement in a human services setting is approved in advance by the department chair. A minimum of 30 hours of fieldwork is required for each credit. Open only to departmental majors. Repeatable 3 times until 9 credits have been accumulated.

SOCI488
The City in the Industrialized World
Distance education 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
Independent Study/Readings/Research/Project in Sociology
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
Concepts of Community Development
A study of the special problems of developing countries from the perspectives of anthropology, demography, geography, political economy and methodology. Also includes techniques needed to promote community as well as individual capacity building.

SOCI530
Community Needs Assessment & Capacity Mapping
Introduction to various methods for assessing community needs and mapping community capacity to address those needs.

SOCI535
Program Planning, Budgeting & Grantsmanship
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
Program Implementation and Evaluation
An analysis of professional journals and reports with an emphasis on the statistical reasoning. Corequisite: PSYC434. (3)

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

SOCI580
Seminar in Community Development Leadership
Topics include philosophical and spiritual foundations, profiles in leadership, strategic planning, grantsmanship, networking and interagency relations, managing volunteers, program evaluation. Offered over 2 semesters.

SOCI598
Project
Open only to students in the MSA in Community Development.

BIOLOGY

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Faculty
David A. Steen, Chair
Gordon J. Akins
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James L. Hayward
Timothy G. Standish
John F. Stout
Dennis W. Woodland
Robert E. Zdor

<table>
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<th>Academic Programs</th>
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<tr>
<td>BS: Biology</td>
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<td>MAT in Biology</td>
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Each degree offered by the Biology Department includes a common core curriculum and additional courses tailored to students' special needs.

Highly motivated students may compete for the Biology Undergraduate Research Traineeship (BURT) program. For full details, consult the Biology Department.

Undergraduate Programs

Bachelor of Science
All biology majors must complete the following core and cognate courses:

**Biology Core—24**
BIOL165, 166, 348, 371, 372, 449, 451, 452

**Cognate Core—24 or 26**
CHEM131, 132, 231, 232, 241, 242;
PHYS141, 142 or 241, 242, 271, 272.

**General Education Cognates**
RELT340, PSYC101.

Students must complete the biology core, the cognate core, and the requirements for one of the emphases listed below.

**Botany Emphasis—21**
Upper-division biology courses; must include a botany course (BOT prefix) drawn from each of the environmental, morphological, and functional groups of courses listed below. In addition, one zoological course (ZOOL prefix) must be included.