

- Meg Ann Traci, PhD, Research Assistant Professor/Project Director

## Affiliates

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- Donna Bainbridge, Physical Therapist, EdD, ATC
- Elizabeth Ciemins, Research Director
- Leslie Diede, Health Promotion Coordinator
- John Felton, President & CEO / Health Officer
- Annie Glover, MPH Student
- Niki Graham, MPH
- Suzanne Reid Hawley, Chair and Professor
- April Keippel, Mission and Community Benefit Program Manager
- Billie Kipp, President, Blackfoot Community College
- Cindi Laukes, Director of Clinical Research, Montana Neuroscienc
- Ellen Leahy, MPH Candidate
- Lolem Ngong
- Joanne Oreskovich, Ph.D., Epidemiologist, DPHHS
- Angelia Paschal, Assistant Professor, Health Education, Department
- Justin Price
- Tom Seekins, Professor Developmental Psychology
- Ned Vasquez, Program Director

## Course Descriptions

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### Public Health

#### PUBH 510 - Intro to Epidemiology

Credits: 3. Offered spring. Open to PUBH majors only. Principles and methods of epidemiologic investigation, descriptive and analytic epidemiology techniques, disease frequency, risk determination, study designs, causality, and validity. Level: Graduate

#### PUBH 511 - History & Theory Epidemiology

Credits: 3. Offered autumn. Open to PUBH majors only. This graduate course covers the basic science of public health. Major schools of epidemiology from the Greek, Italian and English traditions will be compared and contrasted. Basic concepts and terminology will be introduced and major pandemics used to illustrate the evolution of the field. Level: Graduate

#### PUBH 512 - Neuroepidemiology

Credits: 3. Offered autumn. Open to PUBH majors only. An overview of the fundamental considerations of the history, scope, and methods of neuroepidemiology as a subfield of epidemiology. Specific neurologic diseases and injuries will be studied as to distribution and risk factors, as well as the relationship to international public health. Level: Graduate

#### PUBH 515 - Public Health Genetics

Credits: 3. Offered autumn. Open to PUBH majors only. Basic principles of genetics and genomics, application to public health practices and research. Includes issues in public health genetics such as informed consent, screening for genetic susceptibility, and ethical, legal and social implications. Level: Graduate

#### PUBH 520 - Fundamentals of Biostatistics

Credits: 3. Offered autumn. Open to PUBH majors only. This course is designed for graduate students and practitioners in public health, biomedical sciences, and related fields. The course introduces basic vocabulary, concepts, and methods of biostatistics. The goal is to provide an introduction to how biostatistics works. Topics will include descriptive statistics, probability, random variables, probability distributions, statistical inference, chi-square analysis, linear regression, and correlation. Level: Graduate

#### PUBH 525 - Multi/Native American Pub Hlth

Credits: 3. Offered Autumn. Open to PUBH majors only. This course is designed to provide general overview of multicultural issues within the United States and specifically within Montana. The course will provide overview information about health disparities within the nation and how these disparities disproportionately impact ethnic minority populations. Montana's largest minority population is native American tribal communities. As a result, much of the course will incorporate advanced knowledge and topics relating to regional health disparities facing Native American communities. Level: Graduate

#### PUBH 530 - Pub Hlth Admin and Mangmnt

Credits: 3. Offered autumn. Open to PUBH majors only. Overview of public health and health care systems; organizational structures, functions, authorities, policies and procedures; programmatic budgeting, operations, and prioritizations; program performance reporting and improvement; grants and contracts; informatics; human relations and negotiation; management and leadership; and business planning. Level: Graduate

#### PUBH 531 - Leadership in Public Health

Credits: 3. Offered spring. Open to PUBH majors only. Prereq., PUBH 530 or consent of instr. This course deepens the student's knowledge and understanding of the role of public health leaders in the community whether in forming partnerships between public health agencies or with private entities. This course begins by building an understanding of the principles of leadership, explores the applications of leadership to public health, develops the relationship between leadership skills and competencies, studies the role of leadership in evaluation and research and concludes with a look at public health now versus how it could be in the future. Level: Graduate

#### PUBH 535 - Health Policy

Credits: 3. Offered autumn and spring. Open to PUBH majors only. The evolution and intersection of international, federal, state, and local public health policy. Level: Graduate

#### PUBH 540 - Social & Behav Sci in Pub Hlth

Credits: 3. Offered autumn. Open to PUBH majors only. Behavioral and social factors relevant to the identification and solution of public health problems, principles of health behavior change, applications, and assessment of interventions. Level: Graduate

#### PUBH 550 - Progrm Eval & Res Meth

Credits: 3. Offered every odd summer. Open to PUBH majors only. Prereq., PUBH 510 or equiv. and consent of instr. Covers purpose statements, standards, study designs, sampling, measurement, methods for data collection

and analysis, interpretation, and report preparation. Models of evaluation described, and similarities and differences between research and evaluation methods explored. Level: Graduate

#### PUBH 560 - Environmental & Rural Health

Credits: 3. Offered spring. Open to PUBH majors only. Relationship of people to their physical environment, how this relationship impacts health, and efforts to minimize negative health effects. Level: Graduate

#### PUBH 570 - Ethical Issues in Public Hlth

Credits: 3. Offered summer. Open to PUBH majors only. Focus on the values and moral issues that underlie U.S. public health policies. Course examines ethical decision making in areas such as policy development, research, environmental health, occupational health, resource allocation, and genetics. Level: Graduate

#### PUBH 580 - Rural Health Iss Global Contxt

Credits: 3. Offered summer. Open to PUBH majors only. Focus on rural concerns and global influences on public health. Covers trends in global health, global health policies, players, priorities, human rights, health equity, and mobile and vulnerable populations. Students will be introduced to health research methods and design, which will be used to analyze rural and global health issues. Emphasize the science and art of epidemiological strategies to answer specific health questions. Level: Graduate

#### PUBH 591 - Practicum

Credits: 3. Offered autumn and spring. Open to PUBH majors only. Prereq., consent of instructor. Semester long, supervised graduate practicum in a health science setting, followed by an oral defense. Offered credit/no credit only. Level: Graduate

#### PUBH 593 - Professional Portfolio

Credits: 3. Offered autumn and spring. Open to PUBH majors only. Prereq., PUBH 591 and PUBH 599, consent of instructor. Integrates the student's practice experience and knowledge gained through course work, practicum, and possibly professional papers and research with the goals and learning objectives of the M.P.H. program into a portfolio. Students will present and defend their portfolio to illustrate their growth as a professional public health practitioner at the end of their M.P.H. program. Offered credit/no credit only. Level: Graduate

#### PUBH 595 - Special Topics

Credits: 1 TO 12. (R-12) Offered intermittently. Open to PUBH majors only. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics. Previous topics have included Global Health and Epidemiology of Infectious Disease. Level: Graduate

#### PUBH 596 - Independent Study

Credits: 1 TO 6. (R-6) Offered autumn and spring. Open to PUBH majors only. Prereq., admission to the M.P.H., program and consent of instructor. Supervised readings, research, or public health practice. Level: Graduate

#### PUBH 597 - Research

Credits: 3. (R-6) Offered autumn and spring. Open to PUBH majors only. Prereq., admission to the M.P.H. program and consent of instructor. With the guidance of their faculty advisor, students will develop a written proposal specific to the goals of their research project, and carry out the project. Level: Graduate

#### PUBH 599 - Professional Paper

Credits: 3. Offered autumn and spring. Open to PUBH majors only. Prereq., consent of instructor. Students will write and submit an original research paper to a peer-reviewed public health or medical journal. Students may also fulfill

the professional paper requirement by presenting a conference paper or conference poster to a local, regional, or national meeting. Offered credit/no credit only. Level: Graduate

# School of Social Work

**Ryan Tolleson Knee, Chair**

Social work is a human service profession concerned with the prevention of social problems, the maintenance of satisfying social relationships and the enhancement of human development. It focuses on people and their social environment. Social workers employ a range of knowledge and skills as the basis for constructive intervention on behalf of various client populations. The Bachelor of Arts and Master of Social Work degrees are offered. The Bachelor of Arts degree prepares graduates for generalist social work practice. The Master of Social Work degree prepares graduates for advanced integrated practice.

The undergraduate major in social work is available for those who wish to prepare for: (1) professional employment in the social services; (2) entry into a graduate school of social work; (3) graduate education in other helping service professions. The graduate degree in social work prepares graduates for advanced social work practice. Students can enroll in a two year full-time program or in a part-time option. See the University of Montana Graduate Catalog for a description of the Master of Social Work program. Both the Bachelor of Arts degree and the Master of Social Work degree are fully accredited by the Council on Social Work Education.

## **College of Health Prof Biomed Catalog Year: 2015-2016**

Degree Type: Bachelor of Arts Level: Major Subject: **Social Work**

Total Credits: 65 Cumulative GPA Required: 2.75

Lower Division Core

Category Name: Lower Division Core Courses

Rule: Take 32 Credits in the following subcategories

Criterion: Number of Credits 32

Course Listing Commentary:

Subcategory Name: Social Science Requirements Rule: All of the following courses are required.

Criterion: C- Number of Credits 23

Course Listing

PSCI 210S	Intro to American Government	3
PSYX 100S	Intro to Psychology	4
PSYX 230	Developmental Psychology	3
PSYX 233	Fund of Psychology of Aging	3
S W 100	Intro Soc Welfare	3
S W 200	Intro Soc Wrk Pract	4
SOCI 101S	Introduction to Sociology	3

Subcategory Name: Economics Requirement Rule: Choose 1 of the following courses

Criterion: C- Number of Credits 3

Course Listing

ECNS 101S Economic Way of Thinking 3

ECNS 201S Principles of Microeconomics 3

Subcategory Name: Human Population Requirement Rule: Choose 1 of the following courses

Criterion: C- Number of Credits 3

Course Listing

ANTY 122S Race and Minorities 3

GPHY 121S Human Geography 3

SOCI 220S Race, Gender & Class 3

Subcategory Name: Biological Requirement Rule: Choose 1 of the following courses

Criterion: C- Number of Credits 3

Course Listing

BIOB 101N Discover Biology 3

PSYX 250N Fund of Biological Psychology 3

Commentary: Upper Division Core

Category Name: Upper Core Courses Rule: All courses listed are required

Criterion: C- Number of Credits 33

Course Listing

S W 300 Hum Behav & Soc Environ 3

S W 310 S W Policy & Services 3

S W 350 S W Interven Meth I 3

S W 360 S W Interven Meth II 4

S W 400 Social Work Research 3

S W 410E Social Work Ethics 3

S W 487 Advanced Practice I 2

S W 488 Advanced Practice II 2

S W 495 Field Work Practicum 5

Commentary: 10 credits of S W 495 required over 2 semesters

# Gerontology Minor

Students in the Gerontology Minor program will study issues of aging from an interdisciplinary perspective and come to understand the interplay between them, including the health and medical as well as social and psychological needs of older persons. Although this interdisciplinary minor is housed in the School of Social Work, students in other majors may complete the minor in consultation with both the Chair of the Gerontology Minor and the students' academic advisors in their respective departments. Students must consult with their major advisor to select electives, practicum or volunteer experiences, and to integrate courses that will meet the requirements of the minor.

## College of Health Prof Biomed Catalog Year: 2015-2016

Degree Type: Minor Level: Minor Subject: **Gerontology (Minor)**

Total Credits: 21 Cumulative GPA Required: 2.0

Lower Division Core

Category Name: Lower Core Course Rule: Must complete the following:

Criterion: C- Number of Credits 3

Course Listing

PSYX 233 Fund of Psychology of Aging 3

Commentary:

Commentary: Upper Division Core

Rule: Must complete all of the following:

Criterion: C- Number of Credits 9

Course Listing

AHHS 325 Introduction to Gerontology 3

AHHS 430 Health Aspects of Aging 3

S W 455 Social Gerontology 3

Commentary: Major Electives

Category Name: Gerontology Electives

Rule: Must complete 1 of the following courses

Criterion: C- Number of Credits 3

Course Listing

AHHS 201 Living Well, Health & Disabilil 2

AHHS 327 MGS Meeting 1

AHHS 420 Geriatric Health Issues 3

ANTY 426 Culture, Health and Healing 3

COMX 485 Communication and Health 3

ECNS 310 Intro Health Economics 3

NASX 388 Native Amer Health & Healing 3

PHL 321E Philosophy & Biomedical Ethics 3

S W 475 Death, Dying and Grief 3

SOCI 332 Sociology of the Family 3

Commentary: A student must take a minimum of 3 elective credits with at least 25% of the content focused on gerontology. Students may petition for approval of another elective course.

Commentary: Other Courses

Category Name: Integrating Courses

Rule: Must complete 1 of the following courses

Criterion: C- Number of Credits 3

Course Listing

CSD 360 Language Disorders 3

KIN 483	Exercise Disease & Aging	3
P T 520	Development Through Life Span	2
PHAR 451	Therapeutics I	3
S W 300	Hum Behav & Soc Environ	3
SOCI 332	Sociology of the Family	3

Commentary: A course has been identified that will integrate the core course content with concepts within each student's major. A similar course can be identified in other majors if required. Students can also take NRSG 377 Introduction to Community Based Nursing through MSU with approval by advisor.

Commentary: Other Courses

Category Name: Practicum Courses

Rule: Must complete 1 of the following courses

Criterion: C- Number of Credits 3

Course Listing

AHHS 395	Geriatric Practicum	1 To 3
KIN 498	Internship	2 To 6
P T 588	Clinical Internship II	4
PHAR 585	Geriatric APPE	4
PSYX 398	Internship	1 To 3
S W 398	Internship	1 To 3
S W 495	Field Work Practicum	5
SOCI 498	Internship	1 To 6
WGSS 398	Coop Education/Internship	1 To 6

Commentary: Students can also take NRSG 454 Urgent and Palliative Care through MSU with approval by advisor. Students in majors that do not have access to a practicum course can enroll in HS 326 Geriatric Practicum for up to 3 credits of service learning experience compatible with the student's major and interests.

## Department Faculty

### Professor

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- Janet Finn, Professor
- Cindy Garthwait, Professor & Interdisciplinary Gerontology Program Coordinator
- Ryan Tolleson Knee, Professor & Chair

### Associate Professor

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- Keith Anderson, Associate Professor
- Mary-Ann Bowman, Associate Professor & BSW Program Director
- James Caringi, Associate Professor

### Assistant Professor

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- Bart Klika, Assistant Professor
- Laurie Walker, Assistant Professor

## Adjunct

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- Kate Chapin, Director of Field Education
- Kerrie Ghenie, Adjunct Assistant Professor
- Charlie Wellenstein, Adjunct Assistant Professor

## Course Descriptions

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### Social Work

#### S W 100 - Intro Soc Welfare

Credits: 3. Offered autumn and spring. Overview of human services, programs and problems in meeting social welfare needs, with emphasis on the complexity of social services and their historical development. Analysis of the value, attitudinal, economic and political factors that condition the provision of these services.

#### S W 198 - Internship

Credits: 1 TO 3. (R-3) Offered autumn and spring. Prereq., consent of instructor. Application of classroom learning in off campus internship placements. Prior approval must be obtained from the School of Social Work practicum coordinator and from the Center for Work-Based Learning. A maximum of 6 credits of Internship (198, 398,) may count toward graduation. Course Attributes: Internships/Practicums

#### S W 200 - Intro Soc Wrk Pract

Credits: 4. Offered autumn and spring. Prereq., SW 100, sophomore standing. Introduction to social work as a profession, including an examination of goals, guiding philosophy and basic assumptions. Emphasis on a generalist framework of social work practice and the development of beginning analytical and practice skills.

#### S W 291 - Special Topics

Credits: 1 TO 6. (R-6) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

#### S W 300 - Hum Behav & Soc Environ

Credits: 3. Offered autumn and spring. Prereq., SW 100 and 200, and junior standing in Social Work. Using the ecological-social systems framework, the integration of knowledge and concepts from the social and behavioral sciences for analysis and assessment of problems and issues relevant to professional social work practice. Course Attributes: Writing Course-Advanced

#### S W 310 - S W Policy & Services

Credits: 3. Offered autumn and spring. Prereq., SW 200; Social Work major. Social welfare history, program planning and analysis with review of selected policies on the national level. Includes international comparisons. Upper-division writing course. Course Attributes: Writing Course-Advanced

#### S W 323 - Women & Soc Action Amer

Credits: 3. Offered intermittently. Prereq., one of SW 100, SOCI 101S, or ANTY 101H or consent of instr. Same as WS 323. Focus on women's experiences of and contributions to social change in North, South and Central America



in the mid to late-20th century. Through case studies, testimonials, discussions with activists and Internet connections examine social constructions of gender, compare forms of social action in diverse cultural, political and historical contexts, link practice to theories of social participation, and reflect on lessons learned from women's experiences.

#### S W 325 - Introduction to Gerontology

Credits: 3. Offered spring. Prereq., junior standing or consent of instr. An interdisciplinary discussion of the health and social issues of older persons, utilizing didactic presentations, clinical demonstrations, and curricular modules.

#### S W 350 - S W Interven Meth I

Credits: 3. Offered autumn and spring. Prereq., SW 200; Social Work major. The study and application of the generalist model of social work practice and related techniques and procedures for the assessment, intervention and prevention of problems in social functioning. Emphasis on individuals and families.

#### S W 360 - S W Interven Meth II

Credits: 4. Offered autumn and spring. Prereq., Social Work major. The study and application of the generalist model of social work practice and related techniques and procedures for the assessment, intervention and prevention of problems in social functioning. Emphasis on groups and team meetings.

#### S W 391 - Special Topics

Credits: 1 TO 12. (R-12) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

#### S W 398 - Internship

Credits: 1 TO 3. (R-3) Offered autumn and spring. Application of classroom learning in off campus internship placements. Prior approval must be obtained from the School of Social Work practicum coordinator and the Center for Work-Based Learning. A maximum of 6 credits of Internship (198, 398) may count toward graduation. Course

Attributes: Internships/Practicums

#### S W 400 - Social Work Research

Credits: 3. Offered autumn and spring. Prereq., SW 360; Social Work major. Utilization of social research findings in social work practice. Techniques for the collection and analysis of clinical data. Special emphasis on research methodology for the assessment of practitioner and program effectiveness.

#### S W 410E - Social Work Ethics

Credits: 3. Offered autumn and spring. Prereq., SW 200, admission into the BSW program. Analysis of specific ethical dilemmas from personal, professional and policy perspectives. Focus on ethical issues common to the helping professions and utilizing codes of ethics as guides to decision-making. The relationship between professional ethical issues and the development of social policy. Course Attributes: Ethical & Human Values Course

#### S W 420 - Child Abuse/Child Welfare

Credits: 3. Offered autumn. Prereq., junior standing or consent of instr. Signs and symptoms of physical and sexual abuse and neglect, family dynamics in abuse and neglect, the legal context, programs of prevention and intervention, foster care, special needs adoptions and related issues in child welfare.

#### S W 423 - Addiction Studies

Credits: 3. Offered spring. Same as PSYX 441 and SOCI 433. Examination of chemical dependency and behavioral compulsions, including alcohol and other drugs, gambling, eating disorders, sexual addictions. Ecosystems

perspective on etiology, treatment, prevention, family dynamics, community response, and societal contributors. Students engage in a service learning community project which is integrated into the classroom through initial training, regular reflection, and other activities.

#### S W 434 - Social Work and the Law

Credits: 3. Offered spring even-numbered years. Prereq., junior standing. Contemporary implication of social work practice in a judicial arena.

#### S W 440 - Psychosoc Illness Disabil

Credits: 3. Offered autumn. Same as HS 440. Prereq., PSYX 245. ?A review of the psychosocial aspects of illness and disability in older persons to include societal impact of these illnesses, responses of the individual, family, and support network to the stress of illness and disability, caregiver issues, cultural implications, and the impact of the health care system on these psychosocial aspects.

#### S W 450 - Children and Youth at Risk

Credits: 3. Offered autumn or spring. Focus on the aspects of society that pose a threat to today's youth and the ramification of those threats on youth development and behavior. Resilience and protective factors for youth at risk and strategies to work with those youth. Attention to related systems in Missoula and Montana, including juvenile justice, mental health, child protection, substance abuse, and education.

#### S W 455 - Social Gerontology

Credits: 3. Offered autumn. Examination of the field of social gerontology, including an examination of the major bio/psycho/social/cultural/spiritual theories of aging, the service system, social and health issues, family and care giving dynamics, social policy, and end of life concerns.

#### S W 465 - Social Work Global Context

Credits: 3. Offered spring even-numbered years. Prereq., upper-division or graduate standing. Examination of globalization, human rights, poverty, international aid, and gender issues; their relationship to social work and social justice, and strategies for action.

#### S W 472 - Relational Development

Credits: 3. Offered autumn and spring. This course covers strategies to help children whose early experiences deprived them of the nurturing needed to develop the essential capacity to connect with others. Emphasis is on significant discoveries in the fields of neuroscience, childhood trauma, grief and loss, child development, and family systems that have fueled the evolution of the Attachment Treatment philosophy to a broader method of caring for emotionally distress children, the Relational Development treatment approach.

#### S W 475 - Death, Dying and Grief

Credits: 3. Offered intermittently. Examination of death, dying and grief from an ecological perspective, focusing on the processes of dying and theories of grief. Emphasis on physical, social, psychological, spiritual, and cultural influences that surround death and grief. Consideration of cultural norms, attitudes toward death, medical, legal and ethical issues of dying. Focus on normal and complicated grief.

#### S W 485 - Counseling Theories

Credits: 3. Offered autumn. Prereq., PSYX 100S. Same as COUN 485 and PSYX 442. This course introduces students to the primary theories that constitute the intellectual foundation for common counseling and psychotherapy techniques, with a special focus on gender, interpersonal influence strategies, and diversity issues.

S W 487 - Advanced Practice I

Credits: 2. Offered every term. Concurrent SW 495; admission to the practicum program. Consideration and discussion of practicum-related matters, professional development, and issues confronting the profession.

S W 488 - Advanced Practice II

Credits: 2. Concurrent with SW 495; admission to the practicum program. Consideration and discussion of practicum-related matters, professional development, and issues confronting the profession.

S W 491 - Special Topics

Credits: 1 TO 9. (R-9) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

S W 492 - Independent Study

Credits: 1 TO 10. (R 10) Offered intermittently. Prereq., 10 credits in social work. Independent work under the University omnibus option. See index. Course Attributes: Omnibus Course

S W 495 - Field Work Practicum

Credits: 5. (R-10) Offered every term. Prereq., SW 350 and 360 and approved application to practicum coordinator. Practicum must be taken over two consecutive semesters for a total of 10 credits. Minimum of one credit per semester. Cumulative grade average of 2.75 or above in SW 100, 200, 300, 350 and 360 and a 3.0 grade average for SW 200, 350 and 360 are required. Supervised field work in public and private agencies and institutions. Successful completion of the field work practicum requires a passing performance on the school administered professional social work competency examination. Course Attributes: Internships/Practicums

S W 500 - Orientation

Credits: 1. Prereq., admission to M.S.W. program. Seminar introducing M.S.W. students to program philosophy and social work's theory and value base. Level: Graduate

S W 505 - Found Social Work Pract

Credits: 2. Prereq., admission to M.S.W. program. Introductory practice course that examines generalist social work practice, dominant theoretical influences, and forces shaping social work over time. Level: Graduate

S W 510 - Hum Behav Soc Envt I

Credits: 3. Prereq., admission to M.S.W. program. Introduction to and critical consideration of social work perspectives on human behavior as influenced by the social environment. Particular attention is paid to biological, psychological, social, cultural and spiritual influences. Level: Graduate

S W 511 - Hum Behav Soc Invt II

Credits: 3. Prereq., admission to M.S.W. program and SW 510 or consent of instr. Advanced course on human behavior and social environment that addresses difference and diversity, histories and mechanisms of discrimination and oppression, and frameworks for thought and practice that recognize diversity and promote social justice. Level: Graduate

S W 515 - Pract W Indiv & Families

Credits: 4. Prereq., admission to M.S.W. program or consent of instr. Practice-oriented course building on students' developing knowledge of engagement, assessment, intervention and evaluation and the application to practice with individuals and families in context of community. Level: Graduate

S W 520 - SW Research Methods

Credits: 3. Prereq., admission to M.S.W. program or consent of instr. Introduction to principles, methodologies, technologies, and statistical approaches of human service research. Emphasis on beginning capabilities in evaluation of social work practice and skill development regarding use of published research. Level: Graduate  
S W 521 - Advanced Research

Credits: 3. Prereq., SW 515. The use of research within the integrated practice model of social work through evaluation of practice and program evaluation. Advanced statistical concepts are applied to direct practice and five types of program evaluation. Level: Graduate

S W 525 - Pract Groups & Communities

Credits: 4. Prereq., admission to M.S.W. program or consent of instr. Practice oriented course addressing theories, frameworks, principles, and skills of group and community work. Dynamics of group work and examination of modalities such as mutual aid and social action groups. Level: Graduate

S W 530 - History of Social Policy

Credits: 3. Prereq., admission to M.S.W. program or consent of instr. Foundation in social welfare policy and services; examination of relationship between history social welfare policy and emergence of social work profession. Introduction to frameworks for policy analysis. Level: Graduate

S W 531 - Social Policy Analysis

Credits: 3. Prereq., SW 530. Focus on the analysis of existing or proposed policies specific to oppressed populations, rural areas and isolated communities. Level: Graduate

S W 535 - Advanced Practice

Credits: 4. Prereq., consent of instr. Builds on the skills, knowledge, and values of the foundation generalist and practice courses. Level: Graduate

S W 545 - Organizational Leadership

Credits: 3. Prereq., consent of instr. Advanced training in professional leadership and how to effectively conceive, plan, design, implement, manage, assess, and change contemporary organizations. Level: Graduate

S W 551 - Couples and Family Therapy

Credits: 3. Offered spring. Prereq., admission to the MSW program, SW 505, or consent of instructor. Course explores family-centered methods of clinical social work interventions with couples and families that can be applied in a variety of settings. Level: Graduate

S W 552 - Psychopathology & S W

Credits: 3. Prereq., admission to the MSW program, SW 505, or permission of instructor. Focus on current problems of children, adolescents, and adults of all ages that can be classified as a mental disorder under the DSM of the system. Includes information on theories within the bio-psycho-social paradigm of causality of disorders/conditions; on methods of assessment, including DSM; and an understanding of how social injustice, oppression and poverty impacts healthy growth and development across the life span. Level: Graduate

S W 553 - Social Work Addictions

Credits: 3. Offered spring semester. Prereq., admission to MSW program or by permission of instructor. The course examines historical and contemporary models of direct practice, and current ideological, political, policy and systemic challenges to the practice of social work in the addictions. Level: Graduate

S W 554 - Suicide Prev/Intervention

Credits: 1. Offered winter. Prereq., admission to MSW program or consent of instructor. This course investigates the biological, psychological and social forces that directly impact suicidal behaviors. Current program services and resources are critically analyzed. Level: Graduate

S W 555 - Leader in Uncertain Times

Credits: 1. Offered winter. Prereq., admission to MSW program or consent of instructor. This course is designed to give participants a clearer picture of their leadership competencies and greater self knowledge so that they are more effective in providing the needed situational leadership in the organizations they run, work in, or participate in. Level: Graduate

S W 576 - Found Integrative Sem I

Credits: 1. Prereq., admission to MSW program, SW 505, 587. Seminar accompanying first semester foundation practicum in which students discuss experience with goal of integrating theory and practice. Level: Graduate

S W 577 - Found Integrative Sem II

Credits: 1. Prereq., admission to MSW program, SW 505, 587. Seminar accompanying second semester foundation practicum in which students discuss experience with goal of integrating theory and practice. Level: Graduate

S W 578 - Advanced Seminar I

Credits: 1. Prereq., SW 587. Critical analysis of how predominant social work theories and professional values and skills are being incorporated into the practicum. Level: Graduate

S W 579 - Advanced Seminar II

Credits: 1. Prereq., SW 578. Critical analysis of how predominant social work theories and professional values and skills are being incorporated into the practicum. Advanced portfolio development. Level: Graduate

S W 586 - Found Practicum I

Credits: 2. Prereq., admission to MSW program. First semester foundation field practicum experience in a supervised setting designed to provide opportunities to integrate classroom learning and field experiences. Level: Graduate

S W 587 - Found Practicum II

Credits: 2. Prereq., admission to MSW program, SW 505, 587. Second semester foundation field practicum experience in a supervised setting designed to provide opportunities to integrate classroom learning and field experiences. Level: Graduate

S W 588 - Concentration Practicum I

Credits: 3. Prereq., SW 587, 589. Advanced supervised field work in public and private agencies and institutions. Level: Graduate

S W 589 - Concentration Practicum II

Credits: 3. Prereq., SW 588. Advanced supervised field work in public and private agencies and institutions. Level: Graduate

S W 593 - Professional Portfolio

Credits: 1. Prereq., foundation courses. Summative and in-depth written analysis of course work and practicum experience. Level: Graduate

S W 594 - Graduate Seminar

Credits: 3. (R-9) Offered autumn or spring. Prereq., admission to MSW program or consent of instr. In-depth analysis of a current social work issue. Level: Graduate

S W 595 - Special Topics

Credits: 1 TO 9. (R-9) Offered autumn and spring. Prereq., admission to MSW program or consent of instr.

Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics. Level: Graduate

S W 596 - Independent Study

Credits: 1 TO 9. (R-9) Offered autumn or spring. Prereq., admission to MSW program or consent of instr. Work on selected problems by individual students under direct faculty supervision. Level: Graduate

S W 597 - Research

Credits: 1 TO 9. (R-9) Offered autumn or spring. Prereq., admission to MSW program or consent of instr. Directed individual graduate research and study appropriate to background and objectives of the student. Level: Graduate

# Skaggs School of Pharmacy

Pharmacy is the study of the biological, chemical, and physical characteristics of medicinal substances and the utilization of these substances in the prevention, treatment, and control of illness and disease. It also encompasses a study of the systems of delivering health care and the function of the professional pharmacist within these systems.

The Skaggs School of Pharmacy was established in 1907 at Montana State College and was transferred to the University in 1913. The pharmacy program consists of two departments, Pharmacy Practice and Biomedical and Pharmaceutical Sciences.

The Skaggs School of Pharmacy is a member of the American Association of Colleges of Pharmacy. The entry-level doctor of pharmacy program is fully accredited by the Accreditation Council for Pharmacy Education, 135 S. LaSalle Street, Suite 4100, Chicago IL 60603-4810, telephone (312) 664-3575, (800) 533-3606; FAX (312) 664-4652; <http://www.acpe-accredit.org/>

The curriculum offered by the Skaggs School of Pharmacy consists of a six year program leading to the entry-level Pharm.D. degree. The first two years, or pre-professional portion of the curriculum, are spent in studies of the basic biological and physical sciences, and in course work necessary to satisfy the University general education requirements. During the first three years of the professional program, students devote their time to the study of the biomedical and pharmaceutical sciences and pharmacy practice. Areas of study include biochemistry, microbiology, medicinal chemistry, pharmaceuticals, pharmacology, social and administrative pharmacy, and therapeutics. The final professional year is entirely experiential.

A program of selected electives allows the student to obtain further educational experience in specialized areas of pharmaceutical knowledge. Students in the professional program may choose elective courses in specific areas of interest which include community pharmacy practice, management, research and teaching, hospital and institutional pharmacy practice, and a variety of therapeutic-based topics. All students must confer with assigned advisors prior to each registration period and receive approval of proposed courses.

In addition to their formal educational program, to become registered pharmacists, students must complete practical experience under the direction of a registered pharmacist and pass the NAPLEX and MPJE exams administered by the National Association of Boards of Pharmacy.

Career opportunities exist in the fields of community pharmacy, institutional pharmacy, federal or state government service, public health agencies, and with the pharmaceutical industry in sales positions or in manufacturing. Those with advanced degrees or residencies are in demand for research positions and in pharmaceutical education.

**High School Preparation:** In addition to the general University admission requirements, algebra, trigonometry, biology, chemistry, physics and a course in computers are recommended.

## Admission

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The general requirements for admission to the University are listed separately in this catalog.

### Pre-Pharmacy Program

The pre-pharmacy curriculum, which requires a minimum of two years of full-time study, may be taken at any accredited college or university.

Students at the University of Montana-Missoula may enter the pre-pharmacy program during any semester. It is recommended that students considering pharmacy as a major declare a pre-pharmacy major as early as possible in order to receive appropriate advising. Upon designating pre-pharmacy as a major, students will be assigned an advisor within the pharmacy program.

### Professional Pharmacy Program

Students must apply for admission to the professional program. Class size in the professional pharmacy program is restricted and admission to the program is competitive. The admission process is designed to admit the best overall class into professional study. Completed applications are evaluated by the Skaggs School of Pharmacy Admissions Committee. Acceptances are made by the pharmacy faculty and the dean based on the recommendations of the committee.

Since very few elective credits are available in the professional pharmacy curriculum, students will be expected to have completed all General Education requirements except for the upper-division writing and ethics requirements prior to entering the professional curriculum. Students must complete all General Education requirements before entering pharmacy practice experience rotations during the final year of the program. Applicants will be screened based on academic record (both overall and in the required pre-pharmacy course work) and Pharmacy College Admission Test scores (refer to [www.pcatweb.info](http://www.pcatweb.info) for test dates). To be eligible for admission, students must have a minimum grade point average of 2.5 on a 4 point scale, both overall and in required pre-professional courses. Students must earn grades of at least a C (not C-) in all required pre-pharmacy courses. For the past several years there have been more than two applicants for each opening, and the grade point average of the entering class has been about 3.5. In addition, applicants must present proof of having completed at least 20 hours of volunteer or paid service in a pharmacy, other health care, or social field, a writing assignment about the experience, and one evaluation form filled out by someone involved with the applicant in such an experience. A personal interview is also required.

As a state supported institution, the Skaggs School of Pharmacy gives all applicants from the Montana University System equal consideration for admission into the professional pharmacy program. There is no restriction on admission of out-of-state students; however, Montana residents are given priority among students with equal qualifications. Students will be notified of their admission status in writing. In the past, students with only international coursework have not been admitted to the professional pharmacy program.

The curriculum of the professional pharmacy program is sequential. Therefore, students may enter the program in the autumn semester only. Application forms for admission to the professional curriculum may be obtained from the website of the College of Health Professions and Biomedical Sciences ([www.health.umt.edu](http://www.health.umt.edu)). Applications must be post marked by February 15th preceding the autumn semester of the year for which admission is requested.

An application fee must be submitted with the application. Admission for one academic year cannot be deferred to another academic year. Official transcripts of all academic courses taken must be forwarded directly to the Skaggs School of Pharmacy.

The professional pharmacy curriculum must be taken in residence at the University. Students transferring from other accredited schools of pharmacy may be admitted with advanced standing, determined on the basis of credits accepted, provided they are in good academic standing. Transfer credit for required professional courses taken at other institutions is accepted only for those courses which are deemed equivalent and in which a letter grade of C (2.00) or better is obtained.

### *Academic Progression*

The general University academic standing requirements are listed separately in this catalog.



Students in the professional pharmacy curriculum must maintain cumulative, professional, and pharmacy grade point averages of 2.0 or higher. The professional grade point average consists of all required course work in the professional curriculum. The pharmacy grade point average consists of all courses with a pharmacy (PHAR) prefix.

Students enrolled in the professional pharmacy program must maintain satisfactory academic progress. Students must earn grades of at least C- in all required courses in the professional pharmacy curriculum. Students in the professional program who have a pharmacy or professional grade point average of less than 2.0 or who receive a grade of D or F in any required course in the professional curriculum will be placed on academic probation. A student must petition to continue in the professional pharmacy program if he or she is on probation. A student will be dismissed from the professional pharmacy program if he or she is on probation for a total of three terms, not necessarily consecutive, subject to review by the dean. A student will be removed from probation when a grade point average of 2.0 has been achieved and all grades in required professional pharmacy courses are C- or better.

Students who have failed ten or more credits of required professional course work or who fail to progress in the expected manner for two consecutive years may be dismissed from the professional pharmacy program, subject to review by the Academic Standards Committee and the dean.

Students dismissed from the program for substandard performance will not be readmitted, except in cases where substantiation is made to the faculty, by written petition, that the substandard performance was the result of circumstances that no longer exist, or that the student has demonstrated the capability and desire to perform satisfactory work since his or her dismissal from the program.

Students leaving the program on their own volition are guaranteed readmission if they are in good academic standing and exit by interview with the assistant dean for student affairs. Those students leaving the program on their own volition and not in good standing must reapply for admission.

The professional pharmacy curriculum consists of an integrated sequence of required courses which is designed to be completed in four consecutive years. With appropriate justification, part-time study in the professional pharmacy program may be allowed. Students desiring to be enrolled in part-time study must make their request by petition to the Academic Standards Committee. Because the curriculum is revised periodically, students who take longer than the normal number of years to complete the professional program will be required to complete curricular changes applicable to the class in which they graduate. Because the pharmacy program is academically intense, employment beyond the minimal, part-time work is not recommended.

## Special Degree Requirements

Refer to graduation requirements listed previously in the catalog.

Degree candidates must:

1. Meet the general University requirements for graduation.
2. Earn a grade point average of 2.0 or higher in each of the following areas:
  1. all courses attempted at The University of Montana-Missoula (cumulative GPA).
  2. all courses which carry a pharmacy (PHAR) prefix (pharmacy GPA).
  3. all required courses in the professional pharmacy curriculum (professional GPA).
3. Required pharmacy course work must be completed with a grade of C- or better.
4. Complete at least six full academic years, including pre-pharmacy instruction, and a minimum of eight semesters of professional instruction as a full-time student registered for a minimum of twelve credits per semester.
5. Complete not less than 200 credits of course work.

## Licensure in Montana

An applicant for licensure as a registered pharmacist in Montana must pass national examinations as required by the Montana State Board of Pharmacy. To qualify for the examinations, the applicant must be of good moral character and a graduate of an accredited school of pharmacy; however, an applicant will not receive a license until all requirements have been met.

## Internship Regulations

1. The internship requirement for licensure as a registered pharmacist in Montana is regulated by the Montana State Board of Pharmacy. Students must be registered with the Board of Pharmacy as a pharmacy intern in order to accrue internship hours.
2. Only those students who have completed 30 days of the professional pharmacy curriculum may begin their internship.
3. The internship requirement consists of 1,500 hours of experience in an approved pharmacy setting. The student also may acquire hours concurrently with school attendance in courses, clinical pharmacy programs, or demonstration projects which have been approved by the Board of Pharmacy.
4. Most courses and programs currently offered by the School of Pharmacy are approved and applicable toward fulfilling the internship requirement.
5. Students will receive credit for internship time and/or courses taken if such experience is certified by the preceptor and/or instructor and approved by the Board of Pharmacy.

## Pre-Pharmacy Curriculum

The courses shown here must be completed before entering the professional pharmacy program. The sequence of courses is illustrative and, if proper prerequisites are satisfied, the student may alter the order in which the courses are taken.

In addition, applicants to the professional pharmacy program must present proof of having completed at least 20 hours of volunteer or paid service in a pharmacy, other health care, or social field, a writing assignment about the

experience, and one evaluation form from someone involved with the applicant in such an experience. The Pharmacy College Admission Test (PCAT) must be taken within two years of application.

<b>Pre-Pharmacy First Year</b>	<b>A/S</b>	<b>Total Cr</b>
CHMY 141N, 143N College Chemistry I, II	5/5	10
M 162 Applied Calculus (prereq. M 151 or appropriate placement score)	4	4
BIOH 112 Intro to Human Form and Function I BIOH 113 Intro to Human Form and Function II	3/3	6
WRIT 101 English Composition	3	3
<b>Pre-Pharmacy Second Year</b>	<b>A/S</b>	<b>Total Cr</b>
BIOB 260 Cell/Molecular Bio	4	4
CHMY 221, 222 Organic Chemistry I, Organic Chemistry I Lab	3/2	5
CHMY 223 Organic Chemistry II	3	3
ECNS 201S Principles of Microeconomics	3	3
PHSX 205N/206N Fundamental of Physics I & Lab	4,1	5
STAT 216 Statistics (other acceptable courses for the Statistics requirement include PSYX 222 or SOCI 202)	4	4
<b>Either Year, any semester- Required</b>	<b>A/S</b>	<b>Total Cr</b>
PSYX 100S or SOCI 101S Intro to Psychology or Sociology	4 or 3	3 or 3
THTR 120A Introduction to Acting I or COMX 111A Public Speaking	3	3
<b>Either year, any semester - Recommended courses to fulfill UM General Education requirements</b>	<b>A/S</b>	<b>Total Cr</b>

ANTY 101H Anthropology & the Human Experience or NASX 105H Intro to Native American Studies	3	3
LIT 110L Intro to Lit or LIT 120L Poetry	3	3
ANTY 122S Race and Minorities; HSTR 101H Western Civilization; HSTA 101H American History I	3	3

\* \*Students must complete the University's General Education requirements. Due to the limitation of elective credits in the professional pharmacy curriculum, students are advised to complete the lower-division General Education requirement during the pre-pharmacy curriculum.

### Professional Pharmacy Curriculum

Students must apply for admission to the professional program. For requirements see the section on Admission. Students enrolled in the professional pharmacy curriculum are assessed a supplemental fee. This fee does not apply to pre-pharmacy students. Refer to the fees section of this catalog for details. Students must demonstrate proficiency in pharmaceutical calculation by successfully completing a competency assessment prior to entering the second professional year.

The Upper-Division Writing Requirement must be met by successfully completing PHAR 550 or an upper-division writing course from the approved list in the Academic Policies and Procedures section of this catalog. See index.

<b>First Professional Year</b>	<b>A</b>	<b>S</b>
PHAR 381 Pharmaceutical Biochemistry	4	-
PHAR 328 Antimicrobial Agents	-	3
PHAR 331 Pharmaceutics	-	4
PHAR 341, 342 Physiological Systems I, II	4	4
PHAR 361-362 Pharmaceutical Sciences Lab I, II	1	1
BIOM 400 Medical Microbiology	3	-
PHAR 300 Pharmacy Practice I	3	-
PHAR 310 Pharmacy Practice II	-	2
PHAR 363 Pharmaceutical Care Lab I	-	1
PHAR 371-372 Integrated Studies I, II	1	1

Total	16	16
<b>Second Professional Year Autumn/Spring Intersession:</b>	<b>A</b>	<b>S</b>
PHAR 480 Community Pharmacy Introductory Experience	-	3
PHAR 421, 422 Medicinal Chemistry I, II	3	3
PHAR 432 Clinical Pharmacokinetics	3	-
PHAR 443, 444 Pharmacology and Toxicology	4	4
PHAR 412 Pharmacy Practice III–Social and Behavioral Pharmacy	-	2
PHAR 451, 452 Therapeutics I, II	3	3
PHAR 460, 463 Pharmaceutical Care Lab II, III	1	1
PHAR 471, 472 Integrated Studies III, IV	1	1
Electives	1	2
Total	16	16
<b>Third Professional Year Autumn/Spring Intersession:</b>	<b>A</b>	<b>S</b>
PHAR 481 Hospital Pharmacy Introductory Experience	-	3
PHAR 505 Pharmacy Practice IV--Pharmaceutical Care	3	-
PHAR 506 Pharmacy Practice V–Advanced Pharmaceutical Care	-	3

PHAR 513 Pharmacoeconomics and Outcomes Research	-	3
PHAR 514E Pharmacy Ethics	-	3
PHAR 550 Drug Literature Evaluation	3	-
PHAR 553, 554 Therapeutics III and IV	4	4
PHAR 557 Public Health in Pharmacy	2	-
PHAR 560, 563 Pharmaceutical Care Lab IV, V	1	1
PHAR 571, 572 Integrated Studies V, VI	1	1
PHAR 578 Portfolio Assessment & APPE Orientation	-	1
Total	14	16
<b>Fourth Professional Year</b>	<b>A</b>	<b>S</b>
PHAR 579 Community Pharmacy Advanced Pharmacy Practice Experience	4	-
PHAR 580 Hospital Pharmacy advanced Pharmacy Practice Experience	-	4
PHAR 581 Inpatient Advanced Pharmacy Practice Experience	4	-
PHAR 582 Ambulatory Care Advanced Pharmacy Practice Experience	-	8
PHAR Elective Pharmacy Practice Experience	8	8
Total	16	20

Required credits: 200

# Department of Pharmacy Practice

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## Michael P. Rivey, Chair

The Department of Pharmacy Practice provides academic course work for the Doctor of Pharmacy and Masters degrees, conducts research in the broad area of health care, and provides service to the profession of pharmacy and other health care disciplines.

## Faculty

### Professors

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- Andrij Holian, Ph.D., Montana State University, 1975 (Director, Center for Environmental Health Sciences)
- Charles M. Thompson, Ph.D., University of California, Riverside, 1982
- David S. Forbes, Ph.D., University of Wisconsin, 1973 (Dean)
- Diana I. Lurie, Ph.D., University of Pennsylvania, 1989
- Donna G. Beall, Pharm.D., University of Florida, 1984
- Douglas R. Allington, Pharm.D., University of South Carolina, 1988
- Fernando Cardozo-Pelaez, Ph.D., University of Southern Florida, 1996
- Gayle A. Hudgins, Pharm.D., Duquesne University, 1976
- Howard D. Beall, Ph.D., University of Florida, 1991
- J. Douglas Coffin, Ph.D., State University of New York Health Sciences Center at Syracuse, 1989
- Jean T. Carter, Ph.D., University of Arizona, 1997
- Lori J. Morin, Pharm D., M.B.A., The University of Montana, 1981 (Assistant Dean for Student Affairs)
- Michael Kavanaugh, Ph.D., Oregon Health Sciences University-Portland, 1987(Director, Center for Structural and Functional Neuroscience)
- Michael P. Rivey, M.S., University of Iowa, 1982 (Chair)
- Nicholas Natale, Ph.D., Drexel University, 1978
- Richard J. Bridges, Ph.D., Cornell University Medical College, 1987 (Chair)
- Sarah Johnston Miller, Pharm.D., Mercer University, 1985
- Vincent J. Colucci, Pharm.D., Idaho State University, 1995

### Associate Professors

- Anthony Ward, Ph.D., The University of Montana, 2001
- Curtis W. Noonan, Ph.D., Colorado State University, 2000
- Darrell Jackson, Ph.D., Washington State University, 1990
- David M. Shepherd, Ph.D., Oregon State University, 1999
- Elizabeth A. Putnam, Ph.D., University of Texas-Houston, 1989
- Erica L. Woodahl, Ph.D., University of Washington, 2004
- Jerry R. Smith, Ph.D., University of Mississippi, 1977
- Keith K. Parker, Ph.D., University of California, San Francisco, 1977
- Kendra Procacci, Pharm.D., University of Wyoming, 2004
- Kevan Roberts, Ph.D., Christie Hospital in Manchester, U.K., 1984

- Lilian Calderon-Garciduenas, M.D., Ph.D., University of North Carolina, 2001
- Mark A. Pershouse, Ph.D., University of Texas-Houston, 1993
- Sherrill Brown, Pharm.D., University of Missouri, Kansas City, 2003

## Assistant Professors

- Annjeanette E. Belcourt-Dittloff, Ph.D., University of Montana, 2006
- J. Josh Lawrence, Ph.D., University of Wisconsin-Madison, 1999
- Kasper Hansen, Ph.D., University of Copenhagen, 2006
- Katy Hale, Pharm.D., University of Washington, 2004
- Kerry J. Haney, Pharm.D., The University of Montana, 2011
- Yoon Hee Cho, Ph.D., Seoul National University, 2006

## Instructor

- Lisa Venuti, Pharm.D., The University of Montana, 2003

## Lecturer

- Research Professor
- Andrea Stierle, Ph.D., Montana State University, 1988
- Donald Stierle, Ph.D., University of California-Riverside, 1978
- David J. Poulsen, Ph.D., University of Delaware, 1995

## Research Associate Professors

- Dianne L. DeCamp, Ph.D., University of Delaware, 1988
- Philippe Diaz, Ph.D., University Paul Cezanne, 1997

## Research Assistant Professors

- Celine Beamer, Ph.D., University of Montana, 2002
- Michael Braden, Ph.D., Purdue University, 2007
- Zeina Jaffar, Ph.D., University of College London, 1991
- Christopher T. Migliaccio, Ph.D., University of California-Davis, 2000
- Sarjubhai A. Patel, Ph.D., University of Montana, 2000
- Thomas Rau, Ph.D., University of Montana, 2007

## Emeritus Professors

- Todd G. Cochran, Ph.D., University of Washington, 1970
- Charles L. Eyer, Ph.D., Washington State University, 1976
- Rustem S. Medora, Ph.D., University of Rhode Island, 1965
- Vernon R. Grund, Ph.D., University of Minnesota, 1974  
David S. Freeman, Ph.D., University of Washington, 1974



# Department of Biomedical and Pharmaceutical Sciences

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**Elizabeth A. Putnam, Chair**

The Department of Biomedical and Pharmaceutical Sciences offers a curriculum in support of the Doctor of Pharmacy (Pharm.D.) degree and graduate programs in the biomedical and pharmaceutical sciences. Degree programs include the M.S. in Neuroscience, Pharmaceutical Sciences, Toxicology and Medical Chemistry; and the Ph.D. in Neuroscience, Biomedical Sciences, Toxicology, and Medical Chemistry. These programs provide education and training in pharmacology, toxicology, neurobiology, neurochemistry, medicinal chemistry, and molecular genetics. Program graduates are well prepared for careers in academia, government and industry.

## Course Descriptions

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Allied Health: Health Sciences

AHHS 191 - Special Topics

Credits: 1 TO 6. (R 6) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses, or one time offerings of current topics.

AHHS 201 - Living Well, Health & Disabilil

Credits: 2. Offered autumn and spring. The development and implementation of exercise programs for individuals with physical disabilities or chronic illness.

AHHS 291 - Special Topics

Credits: 1 TO 6. (R-6) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

AHHS 320 - Am Ind Health Issues

Credits: 2. Offered spring. Same as PHAR 320. An overview of the health issues, health care delivery and payment that affect American Indians.

AHHS 325 - Introduction to Gerontology

Credits: 3. Offered spring. Prereq., junior standing or consent of instr. An interdisciplinary discussion of the health and social issues of older persons, utilizing didactic presentations, clinical demonstrations, and curricular modules.

AHHS 327 - MGS Meeting

Credits: 1. (R-3) Offered spring. Attendance and participation in the Montana Gerontology Society meeting held annually in April.

AHHS 389 - Rec Adv in Clin Med

Credits: 1. Offered spring. Prereq., junior or senior standing. Weekly presentations throughout the semester by local clinical medical practitioners describing in non-technical terms recent advances in their specialities.

AHHS 390 - Research

Credits: 1 TO 4. (R-8) Offered autumn and spring. Prereq., consent of instr. Traditional or CR/NCR grading determined by instructor. Course Attributes: Research & Creative Schlrshp