

**COLORADO STATE UNIVERSITY**  
**PUBLIC HEALTH COURSE HANDBOOK\***  
**2009-2010**

**BIostatISTICS**

**EDRM 7010 - Applied Linear Models-Educational Research**

Spring. Prerequisite: EDRM 606. General linear model applications in educational research emphasizing conceptual understanding and characteristics of non-experimental designs.

3.000 Credit hours

**EDRM 7030 - Applied Longitudinal Data Analysis**

Fall. Prerequisite: EDRM 701. Methods and empirical applications of individual growth modeling and discrete-time event history analysis in educational research.

3.000 Credit hours

**ERHS 5420 - Biostatistical Methods for Qualitative Data**

Fall. Prerequisite: STAT 301 or ERHS 307/STAT 307. Statistical analysis of categorical data as obtained in epidemiology, toxicology, occupational health, and clinical sciences.

3.000 Credit Hours

\*\*Fulfills the Biostatistics course requirement for the MPH degree

**ERHS 5440 - Biostatistical Methods for Quantitative Data**

Spring. Prerequisite: STAT 301 or ERHS 307/STAT 307. Credit not allowed for both ERHS 544 and STAT 544. Regression and analysis of variance methods applied to both observational studies and designed experiments in the biological sciences.

3.000 Credit Hours

\*\*Fulfills the Biostatistics course requirement for the MPH degree

**ERHS 6420 - Applied Logistic Regression**

Spring (even years). Prerequisite: ERHS 532; ERHS 542. Basic and advanced concepts of logistic regression with focus on practical applications in epidemiology using SAS.

3.000 Credit Hours

**STAS 5110 - Design and Data Analysis for Researchers I**

Fall. Prerequisite: STAT 301 or STAT 307/ERHS 307 or STAT 311 or STAT 315. Must register for lecture and recitation. Statistical methods for experimenters and researchers emphasizing design and analysis of experiments.

4.000 Credit Hours

**STAS 5120 - Design and Data Analysis for Researchers II**

Spring. Prerequisite: STAT 511. Must register for lecture and recitation. Statistical methods for experimenters and researchers emphasizing design and analysis of experiments.

4.000 Credit Hours

**STAS 5200 - Introduction to Probability Theory**

Fall. Prerequisite: MATH 229; MATH 261; MATH 317. Probability, random variables, distributions, expectations, generating functions, limit theorems, convergence, random processes.

4.000 Credit hours

**STAS 5230 - Quantitative Spatial Analysis**

Spring. Prerequisite: STAT 301 or STAT 307/ERHS 307. Credit not allowed for both STAT 523 and NR 523. Techniques in spatial analysis: point pattern analysis, spatial autocorrelation

3.000 Credit Hours

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**STAS 5400 - Data Analysis and Regression**

Fall. Prerequisite: Six credits of upper-division statistics courses. Introduction to multiple regression and data analysis with emphasis on graphics and computing.  
3.000 Credit hours

**STAS 5600 - Applied Multivariate Analysis**

Fall, Spring. Prerequisite: STAT 520; STAT 540. Multivariate analysis of variance; principal components; factor analysis; discriminant analysis; cluster analysis.  
3.000 Credit Hours

**VSCS 6620 - Applied Research-Planning/Design/Analysis**

Spring (every third year). Credit not allowed for both VS 662 and ERHS 662. Must register for lecture and recitation. Training to conceptualize and execute an independent research project.  
0.000 OR 3.000 Credit hours

**COMMUNITY AND BEHAVIORAL HEALTH**

**FSHN 5250 - Nutrition Education Theories and Practice**

Fall. Prerequisite: FSHN 350. Examination of current theories, skills, and models used in nutrition education programs as preparation for research and practice.  
2.000 Credit Hours

**FSHN 6200 - Advanced Community Nutrition**

Spring. Prerequisite: FSHN 350. Community nutrition assessment; nutrition program planning and evaluation; nutrition policy analysis.  
3.000 Credit Hours

**HESC 5560 - Wellness and Health Promotion Concepts**

Fall. Discussion of theory and application of health promotion in various settings.  
3.000 Credit Hours

\*\* Fulfills the Health Promotion course requirement for the MPH degree

**JTCM 5000 - Communication Research and Evaluation Methods**

Fall. Credit not allowed for both JTC 500 and JTC 471. Theory and applied communication research and evaluation methodologies for assessing and improving communication in technological environment.  
4.000 Credit Hours

**JTCM 5010 - Processes and Effects of Communication**

Fall. Prerequisite: JTC 500 or concurrent registration. Examination of communication theory including communicator credibility, messages, channels, audiences, and information, behavior, and attitude change.  
4.000 Credit Hours

**JTCM 6140 - Public Communication Campaigns**

Fall. Prerequisite: JTC 501. Conceptual, methodological issues and decisions underpinning determination of communication campaign effects, planning, implementation, and evaluation.  
3.000 Credit Hours

**JTCM 6300 - Health Communication**

Fall (even years). Prerequisite: JTC 501. Role of health communication in public health programs and campaigns.  
3.000 Credit Hours

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**ENVIRONMENTAL AND OCCUPATIONAL HEALTH**

**ERHS 5020 - Fundamentals of Toxicology**

Fall. Prerequisite: BMS 300 or BMS 360; CHEM 245 or CHEM 341 or CHEM 345. Fundamental principles of toxicology; dose-response, organ targets, toxic agents.

3.000 Credit Hours

**ERHS 5200 - Environmental and Occupational Health Issues**

Fall. Prerequisite: BZ 110 or LIFE 102; CHEM 245 or CHEM 341 or CHEM 345. Issues in environmental and occupational health sciences in the context of public health and regulatory concerns.

3.000 Credit Hours

\*\*Fulfills the Environmental and Occupational Health course requirement for the MPH degree

**ERHS 5260 - Industrial Hygiene**

Fall. Prerequisite: CHEM 245 or CHEM 341 or CHEM 345; ERHS 520 or concurrent registration; PH 110 or PH 121. Theory and application of industrial hygiene principles to management of the occupational environment.

3.000 Credit Hours

**ERHS 5270 - Industrial Hygiene Laboratory**

Fall. Prerequisite: ERHS 526 or concurrent registration. Industrial hygiene field monitoring equipment and techniques.

1.000 Credit hours

3.000 Lab hours

**ERHS 5300 - Radiological Physics and Dosimetry I**

Fall. Prerequisite: MATH 155 or MATH 160; PH 122. Theory and detection of ionizing radiation; measurement and calculation of exposure and dose.

3.000 Credit hours

**ERHS 5360 - Advanced Occupational Health**

Spring. Prerequisite: ERHS 446 or ERHS 526. Advanced topics in occupational health emphasizing contemporary issues, topics, trends, and problems in the field of industrial hygiene.

3.000 Credit hours

**ERHS 5400 - Principles of Ergonomics**

Fall. Theory and practice of ergonomics.

3.000 Credit Hours

**ERHS 5410 - Ergonomics in Product and Process Design**

Spring. Prerequisite: ERHS 540. Application of ergonomics to design of products and processes with respect to health, safety, function, and quality.

3.000 Credit hours

**ERHS 5610 - Radiation Public Health**

Fall, Spring. Prerequisite: ERHS 530 and ERHS 550 or concurrent registration; or ERHS 300 and ERHS 400 with written consent of instructor. Aspects of radiation public health for students in health physics with emphasis on contemporary issues in radiation protection.

2.000 Credit Hours

**ERHS 6300 - Radiological Physics and Dosimetry II**

Spring. Prerequisite: ERHS 530. Calculations and measurement techniques for dosimetry shielding and protection from ionizing radiations.

3.000 Credit hours

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**ERHS 6360 - Industrial Hygiene Control Methods**

Spring (even years). Prerequisite: ERHS 526; ERHS 536 or concurrent registration. Controlling occupational exposures to chemical agents, emphasizing local exhaust ventilation; personal protective devices.  
3.000 Credit hours

**ERHS 6480 - Environmental Health Risk Assessment**

Spring (even years). Prerequisite: ERHS 446; ERHS 520. Environmental contamination and health effects of chemicals using risk assessment, management, and communication approaches.  
3.000 Credit hours

**ERHS 6560 - Occupational Noise Control**

Fall. Prerequisite: ERHS 527. Measurement and control of industrial or environmental noise emphasizing practical solutions.  
3.000 Credit hours

**ERHS 6580 - Environmental/Occupational Epidemiology**

Spring (odd years). Prerequisite: ERHS 532. Must register for lecture and recitation. Epidemiologic analyses of effects of exposure to environmental and occupational health hazards.  
3.000 Credit Hours

**ERHS 6931 - Research Seminar-Industrial Hygiene**

Fall, Spring. Presentation of student research and discussion of publications from scientific literature.  
1.000 Credit hours

**ERHS 6932 - Research Seminar-Toxicology**

Fall, Spring. Presentation of student research and discussion of publications from scientific literature.  
1.000 Credit hours

**ERHS 6933 - Research Seminar-Health Physics**

Fall, Spring. Presentation of student research and discussion of publications from scientific literature.  
1.000 Credit hours

**ERHS 6951 - Independent Study-Occupational and Environmental Health**

Fall, Spring, Summer. Specialized study in occupational and environmental health under supervision of faculty.  
1.000 TO 18.000 Credit hours

**ERHS 7260 - Aerosols and Occupational Health**

Fall. Prerequisite: PH 141. Properties and behavior of industrial aerosols emphasizing measurement and control of dust related to disease.  
3.000 Credit hours

**ERHS 7902 - Seminar - Occupational Health Psychology**

Fall, Spring, Summer. Professional seminar series with student interaction on weekly basis; topics presented by outside experts, faculty, or doctoral candidates.  
1.000 Credit hours

**PSCY 6430 - Industrial/Organizational Psychology I**

Fall. Integration of multiple perspectives for examining work organizations, roles, and relationships, and organizational entry and socialization.  
3.000 Credit hours

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**EPIDEMIOLOGY**

**ERHS 5320 - Epidemiologic Methods**

Fall. Prerequisite: ERHS 307/STAT 307. Must register for lecture and recitation. Method of epidemiologic investigation and study design. Applications to disease control with literature examples.

3.000 Credit Hours

\*\*Fulfills the Epidemiology course requirement for the MPH degree

**ERHS 5330 - Epidemiology of Infectious Diseases/Zoonoses**

Spring (even years). Prerequisite: MIP 300. Credit not allowed for both ERHS 533 and MIP 533. Epidemiologic features of infectious and parasitic diseases that have a major impact on community medicine.

3.000 Credit Hours

**ERHS 6400 - Advanced Epidemiology**

Spring (odd years). Prerequisite: ERHS 532. In-depth exploration of advanced epidemiologic methods.

3.000 Credit hours

**ERHS 6580 - Environmental/Occupational Epidemiology**

Spring (odd years). Prerequisite: ERHS 532. Must register for lecture and recitation. Epidemiologic analyses of effects of exposure to environmental and occupational health hazards.

3.000 Credit Hours

**ERHS 6930 - Research Seminar-Epidemiology**

Fall, Spring. Presentation of student research and discussion of publications from scientific literature.

1.000 Credit Hour

**ERHS 6950 - Independent Study-Epidemiology**

Fall, Spring, Summer. Specialized study in epidemiology under supervision of faculty.

1.000 TO 18.000 Credit Hours

**FSHN 6400 - Selected Topics in Nutritional Epidemiology**

Fall. Prerequisite: FSHN 350; STAT 301 or STAT 307/ERHS 307. Overview of topics in nutritional epidemiology; study design, interpretation of findings, linkage of data to action.

2.000 Credit Hours

**ERHS 1190 - Thesis**

Fall, Spring, Summer.

1.000 TO 18.000 Credit hours

**HESC 6450 - Epidemiology of Health and Physical Activity**

Spring. Prerequisite: HES 600. Foundation in chronic disease epidemiology that will enable students to evaluate the current epidemiologic literature.

3.000 Credit Hours

**VSCS 7950 - Independent Study-Epidemiology**

Fall, Spring, Summer. Maximum of 5 credits allowed in course.

1.000 TO 5.000 Credit hours

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**HEALTH SYSTEMS, MANAGEMENT AND POLICY**

**HSMP 6603 - Health Systems and Management**

Course location: UCD

Fall. First of two-semester sequence to introduce students to the USA health care system from an organizational/political/social/service delivery perspective. Students are introduced to basic components of current health care system/basic economic principles as applied to selected aspects of health care system.

**CHBH 6250 - Public Health Administration and Policy**

Course location: UNC

Spring. Analyze the organization and administration of public health agencies at national, state and local levels. Major public health problems, including administrative and policy decisions regarding their resolution, will be included.

**PUBLIC HEALTH**

**AGRI 5000 - Advanced Issues in Agriculture**

Fall. Credit not allowed for both AGRI 300 and AGRI 500. Must register for lecture and recitation. Scientific, technical, cultural, and social issues facing agriculture, and their interrelationships.  
0.000 OR 3.000 Credit hours

**AGRI 5460 - Principles of Cooperative Extension**

Fall. Traditional and contemporary delivery systems of Cooperative Extension emphasizing structures of nonformal education.  
3.000 Credit hours

**AGRI 5470 - Delivery of Cooperative Extension Programs**

Spring. Prerequisite: Written consent of instructor. Must register for lecture and recitation. Methods, techniques, and procedures in planning, implementation, and delivery of Cooperative Extension programs.  
0.000 OR 4.000 Credit hours  
0.000 OR 2.000 Lecture hours  
0.000 OR 2.000 Other hours

**AGRI 6340 - Animal Production Systems**

Fall, Spring. Must register for lecture and laboratory.  
Developing animal management systems for a variety of animal species in a forage-based environment.  
0.000 OR 3.000 Credit hours

**AGRI 6370 - Understanding Policy and Emerging Issues**

Fall, Spring. Origination, purpose, and policy effects on land-based enterprises; policy effects on management decisions.  
3.000 Credit hours

**AN EQ 5480 - Issues in Manure Management**

Fall (even years). Prerequisite: Three credits 100-level chemistry. Credit allowed for only one of the following courses: AN EQ 448, AN EQ 548, SOCR 448, SOCR 548. Must register for lecture, laboratory, and recitation. Manure management practices maximizing benefits to soils and crops while minimizing hazards to air and water quality and complying with regulations.  
0.000 TO 4.000 Credit hours

**AN EQ 5670 - HACCP Meat Safety**

Spring. Prerequisite: AN EQ 460. Control of health problems in meat products through hazard analysis critical control point (HACCP) and total quality management (TQM) practices.  
2.000 Credit hours

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**ANEQ 6600 - Topics in Meat Safety**

Fall, Spring. Prerequisite: ANEQ 567. Topics of current concern in meat safety.  
1.000 Credit hours

**ANEQ 6760 - Molecular Approaches to Food Safety**

Fall (odd years). Prerequisite: MIP 300 and MIP 301 or MIP 334 and MIP 335. Molecular subtyping, tracking, and control; molecular ecology and evolution of food-borne pathogens; molecular pathogenesis of food-borne diseases.  
0.000 OR 3.000 Credit hours

**ANTP 5150 - Culture and Environment**

Fall. Prerequisite: Graduate standing.  
Theoretical accounts of societies' variable relationships to their environments, indigenous peoples' interactions with nature in context of modernity.  
3.000 Credit hours

**ANTP 5200 - Women, Health, and Culture**

Spring (odd years). Prerequisite: Graduate standing. Women's experiences and interpretations of their health; cultural, political, and economic forces affecting women's health.  
3.000 Credit hours

**ANTP 5290 - Anthropology and Sustainable Development**

Fall. Prerequisite: Nine credits of anthropology. Global development goals, poverty and hunger, environmental sustainability, education, and equity.  
3.000 Credit hours

**ANTP 5300 - Human Environment Interactions**

Fall (odd years). Prerequisite: Nine credits in anthropology. Paradigms and concepts in ecological anthropology with an emphasis on adaptation and resilience.  
3.000 Credit hours

**ANTP 5400 - Medical Anthropology**

Spring (even years). Prerequisite: Graduate standing. Cultural and biocultural approaches to health, illness, and the body; theory and application in medical anthropology.  
3.000 Credit hours

**ANTP 5450 - Culture and Mental Health: Theory and Method**

Spring (odd years). Prerequisite: Nine credits of anthropology.  
Anthropological contributions to the cross-cultural study of mental health; indigenous peoples' health and healing; integration of theory and method.  
3.000 Credit hours

**ANTP 5470 - Mind, Medicine, and Culture**

Spring (even years). Prerequisite: Graduate standing.  
Cultural-psychological influences on health and healing; mind-body medicine; complementary and alternative medicine; indigenous and spiritual healing.  
0.000 OR 4.000 Credit hours

**ANTP 5710 - Anthropology and Global Health**

Fall (even years). Prerequisite: Graduate standing. Global health concerns and problems including poverty, urbanization, malnutrition, diet, war and refugees, climate, and environment.  
3.000 Credit Hours

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**ECOL 5050 - Foundations of Ecology**

Fall. Prerequisite: One course in ecology OR concurrent registration for 1 credit recitation. Overview of the science of ecology; what questions are asked, how they are answered.  
2.000 Credit hours

**ERHS 6980 - Research - MPH Master's Project**

Fall, Spring, Summer. Prerequisite: Written consent of research mentor.  
1.000 TO 6.000 Credit Hours

**ETHS 6950 - Independent Study - Ethnic Studies**

Fall, Spring, Summer.  
1.000 TO 18.000 Credit hours

**FSHN 5000 - Food Systems, Nutrition, and Food Security**

Fall. Prerequisite: FSHN 350. Global and local food systems and their potential influence on nutrition and food security.  
2.000 Credit hours

**FSHN 5200 - Advanced Medical Nutrition Therapy**

Summer. Prerequisite: FSHN 550 or FSHN 551 or admission to GP IDEA program in dietetics. Role of nutrition in etiology and treatment of selected disorders.  
3.000 Credit hours

**FSHN 5250 - Nutrition Education Theories and Practice**

Fall. Prerequisite: FSHN 350. Examination of current theories, skills, and models used in nutrition education programs as preparation for research and practice.  
2.000 Credit Hours

**FSHN 5500 - Advanced Nutritional Science I**

Spring. Prerequisite: BC 351 or BC 403; FSHN 350. Protein, vitamin, mineral metabolism: human studies, animal models.  
3.000 Credit hours

**FSHN 5510 - Advanced Nutritional Science II**

Fall. Prerequisite: BC 350 or BC 403; FSHN 350. Carbohydrate, lipid, energy metabolism; human studies, animal models.  
3.000 Credit Hours

**FSHN 5600 - Exercise and Nutrition**

Spring. Prerequisite: FSHN 350; HES 403; 3 credits of biochemistry. Credit not allowed for both FSHN 560 and HES 560. Interaction of nutrition and physical fitness in exercise performance and promotion of health.  
3.000 Credit hours

**FSHN 6200 - Advanced Community Nutrition**

Spring. Prerequisite: FSHN 350. Community nutrition assessment; nutrition program planning and evaluation; nutrition policy analysis.  
3.000 Credit Hours

**FSHN 6400 - Selected Topics in Nutritional Epidemiology**

Fall. Prerequisite: FSHN 350; STAT 301 or STAT 307/ERHS 307. Overview of topics in nutritional epidemiology; study design, interpretation of findings, linkage of data to action.  
2.000 Credit Hours

**FSHN 6501 - Recent Developments in Human Nutrition-Protein, Vitamins, and Minerals**

Fall (even years). Prerequisite: FSHN 550. Appraisal of literature on human nutritional status.

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**FSHN 6502 - Recent Developments in Human Nutrition-Carbohydrates, Lipids, and Energy**  
Fall (odd years). Prerequisite: FSHN 551. Appraisal of literature on human nutritional status.

**FSHN 6503 - Recent Developments in Human Nutrition-Genomic, Proteomics, and Metabolomics**  
Spring (even years). Prerequisite: FSHN 551. Appraisal of literature on human nutritional status.  
2.000 Credit Hours

**FSHN 6600 - Women's Issues in Lifecycle Nutrition**  
Spring. Prerequisite: FSHN 459 (Nutrition in the Lifecycle). Current nutritional issues related to selected stages of the lifecycle compared to normal adult nutritional needs.  
2.000 Credit hours

**FSHN 6610 - International Nutrition**  
Fall (even years). Prerequisite: FSHN 350. Roles of technological programs and international agencies in meeting nutritional needs.  
2.000 Credit Hours

**FSHN 6750 - Regulation of Energy Intake**  
Spring. Prerequisite: FSHN 350; PSY 454. Central and peripheral mechanisms controlling energy intake with emphasis on humans. Current theories, experimental approaches, and new research.  
3.000 Credit Hours

**FSHN 6920 - Seminar**  
Fall, Spring, Summer.  
1.000 Credit hours

**FSHN 6950 - Independent Study-Nutrition**  
Fall, Spring, Summer.  
1.000 TO 18.000 Credit hours

**FSHN 6951 - Independent Study-Food Science**  
Fall, Spring, Summer.  
1.000 TO 18.000 Credit hours

**FTEC 5720 - Food Biotechnology**  
Spring (odd years). Prerequisite: MIP 334. Interrelationships among microorganisms, food processing methods, advances in biotechnology and food quality, spoilage, shelf-life and safety.  
2.000 Credit hours

**FTEC 5740 - Current Issues in Food Safety**  
Spring. Current food safety issues from field to table; microbiological, consumer, processing, and agricultural issues.  
2.000 Credit hours

**FWLD 5650 - Managing Human-Wildlife Conflicts**  
Spring. Prerequisite: FW 260. Must register for lecture and laboratory. Methods for resolving conflicts caused by wildlife; integrating animal behavior, population dynamics, economics, and human dimensions into solutions. Course includes field trips and a special course fee)  
0.000 OR 3.000 Credit hours

**HDFS 5920 - Grant Writing-Human Services and Research**  
Fall, Spring. Prerequisite: STAT 201. Must register for lecture and recitation. Writing grant proposals that support client services or for research.  
0.000 OR 3.000 Credit hours

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**HDFS 6000 - Advanced Study-Program Planning and Evaluation**

Fall, Spring, Summer. Prerequisite: HDFS 550 or concurrent registration.  
3.000 Credit hours

**HDFS 6100 - Risk and Resilience**

Spring. Prerequisite: Six credits in behavioral sciences. Risk and resilience processes in human development.  
3.000 Credit hours

**HESC 5200 - Advanced Exercise Testing and Prescription**

Spring. Prerequisite: HES 403. Must register for lecture and laboratory. Theory and practice of exercise testing and prescription in apparently healthy and diseased populations.  
3.000 Credit Hours

**HESC 5450 - Evolutionary Basis for Health and Fitness**

Spring. Prerequisite: HES 403; FSHN 350. Evolutionary basis for human health and fitness based upon dietary and exercise patterns for pre-agricultural humans.  
3.000 Credit hours

**HESC 6000 - Data Analysis for Research Design**

Fall. Prerequisite: One course in statistics. Methods of research applied to health and exercise science including quantitative techniques of analysis and research design.  
3.000 Credit hours

**HESC 6030 - Advanced Topics in Exercise Physiology**

Fall. Prerequisite: HES 403. Advanced principles of theoretical and applied exercise physiology at molecular, cellular, and systemic levels.  
3.000 Credit Hours

**HESC 6100 - Exercise Bioenergetics**

Fall. Prerequisite: BC 351 or FSHN 350; HES 403. Biology of energy transfer reactions related to human locomotion and exercise performance in both healthy individuals and disease states.  
3.000 Credit Hours

**HESC 6450 - Epidemiology of Health and Physical Activity**

Spring. Prerequisite: HES 600. Foundation in chronic disease epidemiology that will enable students to evaluate the current epidemiologic literature.  
3.000 Credit Hours

**HESC 6560 - Comprehensive Stress Management**

Fall, Spring, Summer. Relationship between stress and illness emphasizing methods to impact its detrimental effects.  
3.000 Credit hours

**HESC 6860 - Practicum-Wellness Management**

Fall, Spring, Summer. Prerequisite: Current CPR certification.  
1.000 TO 3.000 Credit hours

**HESC 6920 - Seminar**

Spring, Summer. Consideration of graduate education in health and exercise science.  
1.000 Credit hours

**HESC 6950 - Independent Study-Health**

Fall, Spring, Summer.  
1.000 TO 18.000 Credit hours

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**HESC 6951 - Independent Study-Exercise Science**

Fall, Spring, Summer.

1.000 TO 18.000 Credit hours

**HESC 7100 - Exercise in Disease Prevention**

Spring (odd years). Prerequisite: HES 403; HES 520. Role of exercise/physical activity in the prevention, pathophysiology and treatment of chronic diseases.

3.000 Credit Hours

Permission of focus area lead faculty required prior to registration

**IEOO 6920 - International Development Seminar**

Fall. Exploration of contemporary issues in international development from interdisciplinary perspectives.

3.000 Credit hours

**JTCM 5440 - Corporate and Institutional Media Production**

Spring. Must register for lecture and laboratory. Advanced techniques in media production and management in corporate and institutional settings.

0.000 OR 3.000 Credit hours

0.000 OR 2.000 Lecture hours

0.000 OR 3.000 Lab hours

**JTCM 6400 - Telecommunications**

Spring. Prerequisite: JTC 501. Theory and application of telecommunication in information age.

3.000 Credit hours

**JTCM 6500 - Public Relations Management**

Fall. Prerequisite: JTC 501 or concurrent registration. Theoretical and practical management techniques for public relations campaigns including societal, ethical, and legal issues involved.

3.000 Credit Hours

**JTCM 6600 - Communication in Technology Transfer**

Fall. Prerequisite: JTC 501 or concurrent registration. Communication's role in technology transfer as related to nature, process, and effects of technology transfer, knowledge dissemination, and utilization.

3.000 Credit Hours

**JTCM 6610 - Information Design**

Spring. Prerequisite: JTC 501. Theoretical and empirical review of creation, presentation, storage, and distribution of information.

3.000 Credit hours

**JTCM 6620 - Communicating Science and Technology**

Spring. Prerequisite: JTC 501. Examination of theoretical and empirical studies concerning communication of science and technology subject matter.

3.000 Credit hours

**JTCM 6950 - Independent Study - Communication**

Fall, Spring, Summer. Prerequisite: Written consent of instructor.

1.000 TO 3.000 Credit hours

**MIPO 5550 - Principles and Mechanisms of Disease**

Fall. Prerequisite: BMS 300. Principles of disease processes; emphasis on reactivity of the diseased cell, tissue, organ, or organism.

3.000 Credit hours

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**NRES 5120 - Spatial Statistical Modeling-Natural Resources**

Fall. Prerequisite: STAT 301; NR 322; NR 323. Must register for lecture and laboratory. Statistical techniques used to model natural and environmental resources; GIS, remote sensing, and spatial statistics.  
0.000 OR 3.000 Credit hours

**PSCY 5150 - Women's Health**

Fall (odd years). Current issues in women's health.  
3.000 Credit hours

**PSCY 5161 - Public Health Practice-History**

Fall. Prerequisite: Admission to MPH degree program.  
1.000 Credit hours

\*\*In conjunction with PSCY 5162, fulfills the Basic Public Health course requirement for the MPH degree

**PSCY 5162 - Public Health Practice-Competencies**

Spring. Prerequisite: Admission to MPH degree program.  
1.000 Credit hours

\*\*In conjunction with PSCY 5161, fulfills the Basic Public Health course requirement for the MPH degree

**PSCY 5163 - Public Health Practice-Oversight**

Fall, Spring, Summer. Prerequisite: Admission to MPH degree program.  
1.000 Credit hours

**PSCY 5170 - Perspectives in Global Health**

Spring (even years). Credit not allowed for both PSY 517 and IE 517. Science, skills, and beliefs directed at the maintenance and improvement of health for all people.  
3.000 Credit Hours

**PSCY 6860 - Public Health Field Practicum**

Fall, Spring, Summer. Students may participate in ongoing studies or develop their own project in an approved public health setting.  
2.000 Credit Hours

**SPCM 5320 - Theories of Interpersonal Communication**

Spring. Prerequisite: Graduate standing or SPCM 332 and 12 additional 300- and 400-level credits in communication studies. Theories of communication in development, maintenance, and deterioration of friendship, couple, family, group, and business relationships.  
3.000 Credit hours

**SPCM 5340 - Communication and Global Diversity**

Spring (odd years).  
Prerequisite: Graduate standing or SPCM 434 and 12 additional 300-400 level credits in communication studies. Ethnographic approach to communication issues and concerns in a global context.  
3.000 Credit hours

**SPCM 5380 - Communicating in the Health Clinic**

Spring. Organizational, interpersonal, and intercultural dimensions of communicating in public health clinical settings.  
3.000 Credit hours

**VSCS 5700 - Issues in Animal Agriculture**

Fall (even years). Credit not allowed for both VS 570 and AGRI 570. Issues that have a major impact on the direction of changes in animal agriculture.  
2.000 Credit hours

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**VSCS 5810 - Advanced Veterinary Epidemiologic Research**

Spring. Prerequisite: EH 532 or VS 662/EH 662. In-depth knowledge in epidemiological research as it specifically applies to veterinary medicine and the health of animal populations.  
4.000 Credit hours

**VSCS 6020 - Critical Evaluation of Scientific Literature**

Fall. Must register for lecture and recitation. Method of evaluating scientific literature. Students present critiques of papers they have chosen.  
0.000 OR 2.000 Credit hours  
0.000 OR 1.000 Lecture hours  
0.000 OR 1.000 Other hours

**VSCS 6480 - Food Animal Production and Food Safety**

Spring. Prerequisite: Admission to professional curriculum in veterinary medicine. All courses must be taken in prescribed sequence in the PVM program. Credit not allowed for both VS 648 and VM 648. Basic orientation to food animal production units, herd health concepts, and issues of food safety from preharvest through processing and distribution.  
2.000 Credit hours

**VSCS 7960 - Group Study-Medicine**

Fall, Spring, Summer.  
1.000 TO 18.000 Credit hours

**WRSC 5100 - Watershed Management in Developing Countries**

Fall. Prerequisite: CIVE 322/ENVE 322 or WR 304 (or instructor permission). Watershed management problems, approaches, and solutions in developing countries.  
2.000 Credit hours