



WHAT ELSE CAN I TAKE?

COURSES RELEVANT TO STUDENTS INTERESTED IN THE HEALTH PROFESSIONS

Office of Health and Legal Professions Advising (OHLPA)
Academic Advising Center
College of Liberal Arts and Sciences
University of Florida

GUIDE FOR READING COURSE DESCRIPTIONS

The course prefix, number and title may often be followed by F, S, SS (Fall, Spring, and/or Summer) indicating the term in which the course will be offered. The credit hours of the course, the prerequisites (if any) and the corequisites (if any) are listed under the course title.

Each entry also identifies satisfaction of general education requirements (by category). Following the course description, where applicable, will be a parenthetical citation. The letters C (Composition), H (Humanities), I (International Studies and Diversity), S (Social and Behavioral Sciences), M (Mathematical Sciences), P (Physical Sciences), and B (Biological Sciences) identify satisfaction of general education requirements.

*****Note: All information is subject to change, including semesters courses are offered, instructors, pre/corequisites, number of credits, and satisfaction of general education or Gordon Rule requirements. Not all course listings are identical to how they appear in the Catalog. Before registering for a course, students should consult the current Catalog, Schedule of Courses and department offering the course. This is NOT a list of prerequisite courses for health profession programs. Students wishing to enter a graduate or professional program should consult individual programs regarding admissions requirements.**

Agricultural and Biological Engineering College of Agriculture College of Engineering

ABE 2062 Biology for Engineers I.

Credits: 2; Coreq: AGE 2062L

Principles and engineering applications of biology, including biochemistry, genetics, microbial systems, plant systems, animal systems, ecological systems, and global systems. (B)

Instructor: Chynoweth

Relevance to pre-health students: This course is a one semester coverage of biology with emphasis on engineering applications. The animal systems unit emphasizes humans. The ecological and global systems units emphasize man's impact on the environment. This course also addresses infectious diseases, epidemiology, and biotechnology. It also addresses biochemistry and genetics which are relevant to the medical professions.

ABE 2062L Biology for Engineers Lab.

Credits: 1; Coreq: AGE 2062 or Gen Bio.
Lab for AGE 2062. (B)

ABE 4660 Applied Microbial Biotechnology (Previously called Bioprocess Microbiology). S.

Credits: 3; General biology and organic chemistry, or permission of instructor.
Principles of microbial biotechnology with emphasis on applications of microorganisms for industrial processes, e.g., energy, environmental, food, pharmaceutical, and chemical.

Instructor: Chynoweth

Relevance to pre-health students: The following subjects addressed in this course are relevant to pre-health students: metabolism; genetics; public health epidemiology; transport of disease by direct contact, food water, and air; control of microorganisms; food microbiology; microbial production of pharmaceuticals and other chemicals; biotechnology; waste treatment.

Anthropology College of Liberal Arts and Sciences

ANT 2511 Biological Anthropology: Human Evolution & Adaptation, Primate Behavior. F, S, SS.

Credits: 4.

Human evolution and contemporary variation. Includes primatology, human genetics, and anthropometry. Population differences, distribution and history. Laboratories in human and nonhuman primate genetics, anatomy and physiology. (B)

Instructor: Lieberman

ANT 3461 Folk Medicine. F.

Credits: 3.

This course is exploratory and serves as an introduction to the traditional medical system of a people as it is influenced by beliefs and actions, nutrients and taboos and facilitated by specialists, folk-medicines, and avoidances. The interrelationships of traditional systems with the germ theory of disease, clinics and medical specialists and materia medica are considered. (S)

ANT 4525 Human Osteology and Osteometry. F.

Credits: 3; Prereq: ANT 2511 and consent of instructor.

Human skeletal identification for the physical anthropologist and archeologist. Techniques for estimated age at death, race, and sex from human skeletal remains. The measurement of human skeleton for comparative purposes. (B)

ANT 4586 Human Evolution. F.

Credits: 3; ANT 2511 and consent of instructor.
The data, methods, and theoretical problems found in human evolution. (B)

Botany College of Liberal Arts and Sciences

BOT 2800C Plants in Human Affairs. F, S.

Credits: 3.

The role of plants in the development of civilization, and the influence of plants on world history, politics, economics, and culture. A survey of useful and harmful plants and plant products. (B)

Instructor: Stern

Relevance to pre-health students: Some of the topics covered include toxic plants and poisoning, medicinal and healing plants, hallucinogenic plants, beverages, essential oils and aromatics, fatty oils and waxes, and foods and food plants/agriculture, in addition to other topics.

BOT 3143 Local Flora. F, S, SS.

Credits: 3; Prereq: BSC2010C, equivalent or

permission of instructor.

A field survey of the common vascular plants of North Florida, including a study of their identity, their ecology and other interesting properties (medicinal, edible, toxic, etc.). Saturday field trips complement evening labs. Students are tested on recognition skills. (B)

Instructor: Griffin

Relevance to pre-health students: The relevance of BOT 3143 to the professional training of students in medical programs derives from the opportunity this course offers to become acquainted with the original and continuing source of many medicines. Plants represent the greatest warehouse of pharmaceuticals that occurs on earth. The current intense interest by both the general public and the medical community in alternative therapies, including those relying on herbal medicines, should heighten awareness by medical students that they need a solid background in plant recognition. Local flora is that foundation course that will equip the pre-health professional student with the training needed to advance to more specialized courses.

Communication Processes and Disorders College of Liberal Arts and Sciences

COM 4022 Health Communication.

Credits: 3.

Survey of theory, research and practice of communication in the contexts of health care and health promotion.

Instructor: Cline

COM 4024 Interpersonal Communication in Health Care and Promotion

Credits: 3.

Emphasizes research and applications of interpersonal communication in health provider/client relationships and in the intermediary strategies for disseminating health information.

COM 4930 Interviewing (currently offered under Special Topics in Communication).

Credits: 3.

Emphasizes knowledge and practice in participating in interviews, both as an interviewer and an interviewee. Applicability for ANY interviewing context, including counseling, health care, informational, employment, persuasive, assessment, legal and investigative, and research interviews.

Instructor: Cline

SPA 2024 Human Communication Dynamics. F, S.

Credits: 3.

An interdisciplinary course exploring a broad range of dynamic interactions involving human communication. Topics will include pre- and post-natal communication, development of speech, parent/child communication, vocal/nonvocal communication, noise pollution, and prosthetic devices. Normal and abnormal aspects comprising the communication processes will be covered. (S)

Instructor: Rothman

Education: Foundations of Education College of Education

EDF 3210 Educational Psychology. F, S, SS.

Credits: 3.

An introduction to the application of psychology to the problems of education in a variety of educational settings. It examines the theoretical and applied aspects of learning, motivation, human development, personality, and measurement and evaluation. (S)

Instructor: Greenwood

Relevance to pre-health students: "Several physicians and dentists have told me that they wish they had majored in psychology instead of pre-med. Apparently they saw a knowledge of human behavior (ed psych is very applied) as valuable as knowledge of biology or chemistry."

EDF 3514 History of Education in the United States. F, S, SS.

Credits: 3.

The development of American schools and major problems in American education, with emphasis upon the relationships among the schools, intellectual movements, and social institutions. (H)

Instructor: White

Relevance to pre-health students: "One of the goals of my course is to develop each student's power of critical thinking and scientific judgement so he or she might become more in touch with reality and enjoy and improvement in decision making skills."

Education: Special Education College of Education

EEX 2010 Exceptional People. F, S, SS.

Credits: 3.

An overview of persons who are diverse in society with the objective of gaining knowledge and reducing myths and fears. Included are those who are different such areas as race, religion, gender, sexual orientation, age, disability, economic status, body size, and intellectual ability.

Instructor: Schwartz

Relevance to pre-health students: This course will enable pre-health students to gain a high level of comfort when dealing with persons who are different from them.

Entomology and Nematology College of Agriculture

ENY 4660C Medical & Veterinary Entomology. F.

Credits: 3; Prereq: ENY 3005 (Instructor will waive for good students.)

The bionomics, classification, distribution, disease

relationship, structure, and control of arthropods affecting man and domestic animals. Also recommended for students in Environmental Engineering, Parasitology and Medicine. (B)

Instructor: Butler

Environmental Engineering Sciences College of Engineering

EES 4102 Wastewater Microbiology. F.

Credits: 2; Prereq: CHM 2046.

General concepts in microbiology and cell biology with major emphasis on the role of microorganisms in polluted environments. (B)

Instructor: Bitton

Relevance to pre-health students: General knowledge of microbiology and cell biology.

EES 4401 Public Health Engineering. S 98, after that F.

Credits: 3.

Application of engineering principles to protect public health. Areas covered include water supply, waste treatment, air pollution, radiological health, occupational health, milk and food sanitation, vector control, solid wastes, and housing hygiene. (P)

Instructor: Bolch

Relevance to pre-health students: Overall public health relating to storage and sanitation of household items.

ENV 4201 Radiological Health. S, but contact Department of Nuclear and Radiological Engineering.

Credits: 3.

A beginning course covering radiation sources, effects and protection guides. Radiation exposure and protection in medical, occupational and natural environments. (P)

Instructor: Bolch

Relevance to pre-health students: How to protect yourself from radiation exposure.

Exercise and Sport Sciences College of Health and Human Performance

PET 2320C Applied Human Anatomy with Laboratory. F, S, SS.

Credits: 4.

Study of the human body from a health standpoint. Designed to meet the needs of physical educators, health educators, recreation therapists, and other disciplines interested in the anatomy of the human body. (B)

PET 2350 Applied Human Physiology. F, S, SS.

Credits: 4.

Study of the normal function of the human body as related to the fields of physical education, health education, recreation therapy and other related disciplines. (B)

PET 3351C Physiology of Exercise and Training.

F, S.

Credits: 2; Prereq: PET 2350 or permission of the chairman of the department.

Effects of physical exercise and athletic training on human function and structure.

PET 4XXX (New course, no number yet) Neuromuscular Aspects of Exercise. F, S.

Credits: 3; Prereq: PET 3351

This course will provide students with an in-depth analysis of:

- 1) muscle structure and function
- 2) how muscles produce movement
- 3) adaptation of muscle to resistance training, endurance training, and various manipulations used in rehabilitation
- 4) adaption of muscle to disuse
- 5) muscle responses to injury

Instructor: Dodd

PET 4XXX (New course, no number yet) Advanced Exercise Physiology. F, S.

Credits: 3; Prereq: PET 3351

This course is designed to provide the student with a detailed understanding of acute and chronic responses to exercise. Particular attention will be placed upon understanding the physiological responses to exercise at both systems and cellular level.

Instructor: Powers

Center for Gerontological Studies College of Liberal Arts and Sciences

GEY 4930 Special Topics: Issues and Concepts in Gerontology.

Credits: 3; may be repeated with a change of content up to a maximum of 6 credits.

This course provides a broad overview of issues related to aging, gerontology, and geriatrics. It is divided into topics of biology and health; psychosocial issues; and policy and applied issues and is appropriate for anyone expecting a career in health-related professions or anyone expecting to work closely with an aged population in other fields.

Health Science Education College of Health and Human Performance

HSC 2100 Personal and Family Health. F, S, SS.

Credits: 3.

A survey of personal health concerns such as emotional health; aging and death; alcohol, tobacco, and drug abuse; physical fitness; nutrition and dieting; consumer health; chronic and communicable diseases; human sexuality; and environmental health. (S)

HSC 3531 Health & Medical Terminology. F, S, SS.

Credits: 3.

Develops a working knowledge of terminology related to the human body in health and disease through descriptive definitions, practical applications, understanding word roots,

combinations, and medical abbreviations.

Instructor: Fagerberg

HSC 4652 Trends in International Health. S.

Credits: 3; *Prereq:* None, but HSC 2100 recommended.

An overview of problems and practices in international health including disease patterns and prevalence, contributing factors, organizational and governmental initiatives, and model programs, with special emphasis on problems amenable to health education interventions. (I)(S)

Instructor: James or Chen

HSC 4950 Special Topics: HIV & AIDS Education. F.

Credits: 3.

Seminar course featuring experts in the study or services of HIV & AIDS.

Instructor: Dorman

History

College of Liberal Arts and Sciences

All history of science courses, listed in the Undergraduate Catalog, would be relevant to pre-health profession students. More courses are being added for the 1998-99 catalog. In addition, the following history courses are relevant:

HIS 3490 History of Western Medicine.

Credits: 3.

Beginning with primitive societies, the course will trace the development of ideas of medical treatment, concepts of disease, and the growth of medical knowledge over the centuries. Students will also have the opportunity to perform research on an aspect of medical history of interest to them. (H)

HIS 3931 History of Food (Taught occasionally as a Special Topics course)

Credits: 3.

Instructor: Paul

HIS 4306 Alcohol and History.

Credits: 3; *Prereq:* 6 hours of history.

Alcohol is the western world's most widely used drug. The course explores the historical role it has played in society, politics, and the economy in a number of countries.

Instructor: Giles

Management

Warrington College of Business Administration

BUL 4310 The Legal Environment of Business. F, S, SS.

Credits: 4.

Introduction to the legal environment of business and organizations. Emphasis on public and regulatory law and on the social, political and ethical aspects of legal issues in business. Subjects include the nature of law and legal process; administrative law of

contracts and torts; business and the constitution; statutory and common law; contracts and torts; business organizations and securities, antitrust, consumer protection, employment law.

Instructor: Emerson

Relevance to pre-health students: Basic business principles and practices are applicable for professionals in all fields, including health care.

MAN 3025 Principles of Management. F, S, SS.

Credits: 4.

Fundamentals of management underlying the solution of problems of organization and operation of business enterprises. (S)

Relevance to pre-health students: Basic business principles and practices are applicable for professionals in all fields, including health care.

Marketing

Warrington College of Business Administration

MAR 3023 Principles of Marketing. F, S, SS.

Credits: 4.

Functions, institutions, and methods of marketing goods and services. Relates marketing to the larger economic structure and emphasizes the importance of the consumer. (S)

Relevance to pre-health students: Basic business principles and practices are applicable for professionals in all fields, including health care.

Romance Languages and Literatures

College of Liberal Arts and Sciences

SPN 2030 Spanish for Medical Personnel. S (Taught every two years or so).

Credits: 3; *Prereq:* SPN 2201 or the equivalent.

Designed to develop the practical medical vocabulary and conversational skills needed in a clinical situation.

Sociology

College of Liberal Arts and Sciences

SYO 4400 Medical Sociology

Credits: 3; *Prereq:* SYG 2000.

Effects of group characteristics in the causation, amelioration, and prevention of mental and physical illness. Examines the social influences in medical education, medical practice, and hospital administration.

Instructor: Seccombe

Relevance to pre-health students: Course is usually made up of 30-50% pre-med, and 10-20% from other health fields (pharmacy, nursing, etc.). Class illustrates that illness is not simply a biological phenomena. Disease and health are, in part, socially produced.

Urban and Regional Planning College of Architecture

URP 4905/6905 Bikeways Planning and Design (Taught as a Special Studies course).

Credits: 3; *Prereq:* Min. 2 yrs. undergraduate studies, interest in the subject area, basic computer skills (Intro to CIS helpful but not required), ownership of a bicycle (several class field trips will be taken by bicycle).

To enable students to plan and design bicycle trails, paths, greenways, and on-road facilities that form a network for non-motorized transportation. This course will be oriented toward a systems approach to planning and will incorporate information on national trends, federal, state, and local funding mechanisms, transportation modeling for alternatives transportation modes and actual design criteria, standards and state-of-the-art examples of bikeways and greenways throughout the nation.

Relevance to pre-health students: The class will focus primarily on transportation/bike facility planning, but will also touch on community exercise, health and safety issues involved with bicycling.