

Undergraduate Health Professions Technology Courses

HPTC 3320. Biotechnology and Bioethics. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).

This course will cover the recent advances in biology which have made new techniques and technologies possible for the production of pharmaceuticals, foods, textiles, pesticides and chemicals. Ethical principles in biotechnology and biomedicine are studied and applied to contemporary problems in medicine and biomedical research. Additional topics include stem cell research; genetic testing; organ transplantation; and research involving human subjects.

HPTC 3350. Microbiology for Allied Health Professionals. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).

This course will focus on an introduction to modern medical microbiology that is clinically relevant for the allied health professional. General concepts of bacterial, viral, parasitic and fungal infection will be addressed, followed by a survey of the major human pathogens in each of these categories. Conclusion of the course will include microbiology issues that are applicable to clinical infection control protocols.

HPTC 4304. Health Care Management. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).

Comprehensive survey of management principles and practices in the health care setting, with particular attention to the allied health arena. Management strategies, strategic planning and implementation, budgetary preparation, personnel resource management and compliance with governmental and professional accreditation regulations are addressed with integration of health care ethics.

HPTC 4305. Issues and Trends in Health Care. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours). [WI (<http://catalog.tarleton.edu/academicaffairs/>)]

This course is designed to explore and discuss concepts and issues that are pertinent to allied health care professionals including legal and regulatory issues, health service reform and cost containment, workforce development, and quality assurance practices.

HPTC 4349. Pharmacology for the Allied Health Professionals. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).

This course will focus on a survey of the more important drugs used in medicine, including basic principles, clinical uses and possible adverse effects. Students will be introduced to important issues affecting drug approval, legislation, manufacturing, formulation and delivery, metabolism and measurement.

HPTC 4350. Pathophysiology for the Health Professionals. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).

This course will focus on presentation of interrelationships between normal body functioning and the physiologic changes that participate in disease production, and occur as a result of disease. Emphasis on major disorders and other selected disorders provides a concise, easy-to-understand introduction to the fundamentals.