HAS
Allied Health

HAS 190 Introduction to the Health Professions
Presents topics of interest to students considering careers as health professionals. Introduces the student to basic concepts of health, factors influencing health care, health care settings, and selected health professions. May not be taken for credit in addition to HWH 102. Open to West Campus students. 1 credit

HAS 192-F Introduction to Autism Spectrum Disorders
Provides an introduction to autism and related disorders. Discusses characteristics of individuals with autism, Asperger's syndrome and other pervasive developmental disorders, including their manifestation at various intellectual levels and across the age span. Addresses prevalence, current theories of cause and development, therapeutic interventions, and program effectiveness. Introduces family stress and life issues and the concepts of normalization and inclusion. Not to be taken for credit in addition to HAS 303. Open to West Campus students. 3 credits

HAS 290 Medicine and Society
Examines traditional concerns of the humanities and social sciences as they interface with health care and its delivery. Practicing physicians or other health professionals present clinical cases. Emphasizes confidentiality, experimentation, dying and death, and allocation of scarce resources. Focuses on the social, historical, ethical, and humanistic importance of the cases. Permission of instructor required. Open to West Campus students. 3 credits

HAS 292 Behavioral Intervention for Children with Autism
Provides framework to develop and implement behaviorally based instruction for children with autism spectrum disorders. Presents the variables that control learning in instructional environments. Offers opportunities to develop technical competencies in behavior analytic intervention strategies (defining and measuring behavior, shaping, chaining, and discrete trial instruction) that facilitate acquisition, maintenance and generalization of skills. Involves "hands on" experience for minimum of five hours per week at sites that provide services for children with autism. Pre- or Corequisite: HAS 192, not to be taken for credit in addition to HAS 502. Transportation to off-campus sites must be provided by the student. Open to West Campus students. 4 credits

HAT
Respiratory Care

HAT 210 Introduction to Respiratory Care
An introduction to the science of respiratory care. Current trends in professional practice are discussed and students have the opportunity to observe clinical practice at a variety of affiliated health-care facilities. This course is specifically designed for lower-division students considering a major in respiratory care. Open to West Campus students. 1 credit

HBA
Anatomical Sciences

HBA 109-E Life Through Time
An examination of biodiversity as preserved in the fossil record and how it contributes to the understanding of evolution. Species examined include invertebrates, plants, dinosaurs, and mammals and the ultimate origin and evolution of humans. Principles of evolution, paleontology, phylogenetic reconstruction, and conservation are discussed. This course is offered as both GEO 109 and HBA 109. 3 credits

HBA 393, 394 Special Topics from the Anatomical Sciences Literature
Tutorial readings in anatomical sciences with periodic conferences, reports, and examinations arranged with the instructor. Open to juniors and seniors. May be repeated. Prerequisites: U3 or U4 standing; permission of instructor 1-2 credits per course

HBA 398, 399 Research Project in Anatomical Sciences
An independent research project under faculty supervision, with emphasis on the principles of experimental design, data collection, evaluation of findings, and reporting of results. The student is expected to prepare a report on the project. May be repeated. Prerequisites: U3 or U4 standing; laboratory experience; permission of supervising instructor 0-6 credits

HBH
Pharmacology

HBH 330 Fundamentals of Pharmacology I
Covers the basic principles that underlie the action of drugs on physiological processes. These principles are applied to the specific action of drugs on the autonomic nervous system. In addition, the pharmacology of cardiovascular drugs are covered in detail. Prerequisite: Admission to Undergraduate Health Sciences Center program 2 credits

HBH 331 Fundamentals of Pharmacology II
A continuation of HBH 330. Covers the action of drugs on individual systems as well as drug-drug interactions emphasizing the mechanisms of drug action. Surveys therapeutic applications and adverse drug reactions. Prerequisites: HBH 330; admission to undergraduate Health Sciences Center program 2 credits

HBH 332 Pharmacology in Cardiorespiratory Sciences
Includes the basic principles of drug actions and covers drug applications in the autonomic, cardiovascular, and respiratory systems. For cardiorespiratory sciences students enrolled in The School of Health Technology and Management. Prerequisite: Admission to undergraduate Health Sciences Center program 3 credits

HBH 393, 394 Topics in Pharmacology
Tutorial readings in pharmacology with periodic conferences, reports, and examinations arranged with the instructor. Open to juniors and seniors. May be repeated. May not be used toward the requirements for the major in pharmacology. Prerequisites: U3 or U4 standing; permission of instructor 1-5 credits per course

HBM
Molecular Genetics and Microbiology

HBM 320 General Microbiology
A study of the molecular structure, functional anatomy, growth, genetics, and pathogenic mechanisms of microbial agents, with an emphasis on bacteria and viruses. Non-specific and specific host defenses and the control of microorganisms will also be covered. Satisfies the microbiology requirement for admission to most allied health, nursing, optometry, and veterinary medicine professional schools. Prerequisites: BIO 202; CHE 132 3 credits

HBM 321 General Microbiology Laboratory
Complementing the lecture material of HBM 320, this optional laboratory covers basic and applied microbiological methods. Students are introduced to methods for isolating pure cultures, microscopy and staining, quantization of bacteria and determination of sensitivity to antimicrobial agents. This laboratory is limited to pre-allied health, pre-nursing, and pre-veterinary students. Prerequisites: BIO 202; CHE 132; permission of instructor 1 credit

HBM 393, 394 Special Topics from the Microbiology Literature
Tutorial readings in microbiology with periodic conferences, reports, and examinations arranged with the instructor. Semester project report required. May be repeated. Prerequisites: U3 or U4 standing; permission of instructor 1-2 credits per course

HBM 398, 399 Research Project in Microbiology
An independent research project under faculty supervision, with emphasis on the principles of experimental design, data collection, evaluation of findings, and reporting of results. Project report required. May be repeated. Prerequisites: U3 or U4 standing; laboratory experience; permission of supervising instructor 0-6 credits