

# HEALTH SCIENCES (HS)

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## HS 161 Medical Terminology - 1 Hour

The course includes a study of terms relating to medical technology and practice, health sciences fields, and ancillary hospital services, including abbreviations, spelling, and pronunciation. Some individual computer work required. Offered fall semester Quad A for Deerfield traditional undergraduate. Delivery mode: Deerfield traditional undergraduate.

## HS 162 Introduction to Interprofessional Health Sciences - 1 Hour

This course serves as an introduction to the allied health care disciplines of Athletic Training, Exercise Science, Nursing, Occupational Therapy, Physical Therapy, and Physician Assistant, including the education prerequisite, curriculum, credentialing, licensing, and work conditions. Emphasis on students learning with, from, and about other professionals to enable effective collaboration among professionals to improve health outcomes. Emphasis on planning and securing discipline specific clinical experiences during the student's undergraduate experience. Offered fall semester Quad B for Deerfield traditional undergraduate. Delivery mode: Deerfield traditional undergraduate.

## HS 165 Responding to Emergencies and Sport Safety Training - 3 Hours

Collegiate-level American Red Cross course that certifies participants in Community CPR, RTE First Aid, and Sport Safety Training. Includes the importance of a safe and healthy lifestyle, basic prevention and care of acute trauma injuries, sudden and chronic illnesses. Laboratory skills, practicum, and observation are included. Laboratory fee. Offered fall semester for Deerfield traditional undergraduate. Delivery mode: Deerfield traditional undergraduate.

## HS 168 Prevention and Care of Athletic Injury - 3 Hours

A lecture/laboratory approach providing foundation for pursuing a career in athletic training. A systematic approach to conditioning principles, emergency preparation, protective taping/wrapping skills, injury mechanism, resulting pathology, and care of injuries by participation of the physically active in sport/recreation. Policy, procedures, and observation of the athletic training room are included. Prerequisites: HS 161 and current American Red Cross Community First Aid and CPR certification (or acceptable equivalent), HS 162, or consent of instructor. Laboratory fee. Offered spring semester for Deerfield traditional undergraduate. Delivery mode: Deerfield traditional undergraduate.

## HS 201 Physiology of Exercise - 3 Hours

A systematic approach to the study of the function of the human body during physical activity and recovery. Emphasis is placed on how the physiology of the sedentary body responds and adapts to both acute and chronic workloads. The application of these principles to exercise prescription for the achievement of optimal fitness and athletic performance will be applied. Laboratory is included. Prerequisites: BIO 140 or BIO 340-341 and current Community First Aid and CPR certification (or acceptable equivalent) or consent of instructor. Laboratory fee. Offered spring semester for Deerfield traditional undergraduate. Delivery mode: Deerfield traditional undergraduate.

## HS 202 Nutrition - 3 Hours

Effects of nutrition on performance and health emphasizing various methods of nutritional analysis, effects of current dietary practices, basic behavior modification techniques, nutritional needs of competitive and special populations, ergogenic aids and referral resources. Offered each semester for Deerfield traditional undergraduate. Delivery mode: Deerfield traditional undergraduate.

## HS 211 Guided Field Experience and Skills Assessment I - 0-2 Hours

The first course in a series of two practicum courses designed to provide the Level II athletic training student with guided instruction, supervision and assessment of the Athletic Training Education Competencies, Current Edition. The clinical competencies and proficiencies are adjusted to assist the athletic training student in developing mastery of each, using a flexible modular approach. The athletic training student is expected to complete each module in the semester it is assigned. Prerequisite: HS 168 or consent of Program Director. Offered fall semester for Deerfield traditional undergraduate. Laboratory fee. Delivery mode: Deerfield traditional undergraduate.

## HS 212 Guided Field Experience and Skills Assessment II - 0-2 Hours

The second course in a series of four practicum courses designed to provide the athletic training student with guided instruction, supervision and assessment of the Athletic Training Education Competencies, Current Edition. The clinical competencies and proficiencies are adjusted to assist the athletic training student in developing mastery of each, using a flexible modular approach. The athletic training student is expected to complete each module in the semester it is assigned. Prerequisite: HS 211 or consent of the Program Director. Offered spring semester for Deerfield traditional undergraduate. Delivery mode: Deerfield traditional undergraduate.

## HS 251 Kinesiology - 3 Hours

The purpose of this course is to study the human body from both the functional anatomy and biochemical perspectives. It will discuss the anatomical components of human movement, including bones, joints, nerves, and muscles, and move into the basic analysis of human motion through the use of biomechanical principles. An application of proper technique, with an emphasis of proper analysis and training techniques for movement effectiveness, efficiency, and injury prevention will introduce students to the kinesiology analysis method of movement, analyzing a broad range of movements throughout the course of the semester. Prerequisites: BIO 140 or BIO 340. Offered Spring semester for Deerfield traditional undergraduate. Laboratory fee. Delivery mode: Deerfield traditional undergraduate.

## HS 261 Advanced Techniques and Assessment of Athletic Injuries I - 2 Hours

The first semester of a sequenced lecture/laboratory course designed to assess injuries that are associated with athletic competition and the physically active. On-site and clinical assessment of injuries, proper referral, and an understanding of diagnostic equipment utilized in the medical field are included. Critical thinking in realistic scenarios is emphasized. Prerequisites: HS 168 and current American Red Cross Community First Aid and CPR certification (or acceptable equivalent) or consent of instructor. Offered fall semester for Deerfield traditional undergraduate. Delivery mode: Deerfield traditional undergraduate.

## HS 262 Advanced Techniques and Assessment of Athletic Injuries II - 2 Hours

The second semester of a sequenced lecture/laboratory course designed to assess injuries that are associated with athletic competition and the physically active. On-site and clinical assessment of injuries, proper referral, and an understanding of diagnostic equipment utilized in the medical field are included. Critical thinking in realistic scenarios is emphasized. Prerequisites: HS 168, HS 261, and current American Red Cross Community First Aid and CPR certification instructor (or acceptable equivalent) or consent of instructor. Offered spring semester for Deerfield traditional undergraduate. Delivery mode: Deerfield traditional undergraduate.

**HS 305 Health Science Applications - 1-4 Hours**

In-depth instructional, teaching, or laboratory experience designed to enhance the student's expertise, critical thinking, laboratory and communication skills in any of several areas. May be repeated for credit. Prerequisite: invitation of instructor. Instructor's consent by signature required. Offered on demand for Deerfield traditional undergraduate. Delivery mode: Deerfield traditional undergraduate.

**HS 311 Guided Field Experience and Skills Assessment III - 0-2 Hours**

The third course in a series of four practicum courses designed to provide the athletic training student with guided instruction, supervision and assessment of the Athletic Training Education Competencies, Current Edition. The clinical competencies and proficiencies are adjusted to assist the athletic training student in developing mastery of each, using a flexible modular approach. The athletic training student is expected to complete each module in the semester it is assigned. Prerequisite: HS 212 or consent of Program Director. Offered fall semester for Deerfield traditional undergraduate. Laboratory fee. Delivery mode: Deerfield traditional undergraduate.

**HS 312 Guided Field Experience and Skills Assessment IV - 0-2 Hours**

The fourth and final course in a series of four practicum courses designed to provide the athletic training student with guided instruction, supervision and assessment of the Athletic Training Education Competencies, Current Edition. The clinical competencies and proficiencies are adjusted to assist the athletic training student in developing mastery of each, using a flexible modular approach. The athletic training student is expected to complete each module in the semester it is assigned. Prerequisite: HS 311 or consent of the program director. Offered spring semester for Deerfield traditional undergraduate. Delivery mode: Deerfield traditional undergraduate.

**HS 350 Topics in Health Sciences - 3-4 Hours**

Utilizing the current literature, this course examines an advanced topic in a field of health sciences. Prerequisites: BIO 111, CH 103 or CH 111-CH 112, or consent of the instructor. Course may be repeated with different topic. Offered on demand for Deerfield traditional undergraduate. Delivery mode: Deerfield traditional undergraduate.

**HS 351 Biomechanics - 3 Hours**

Theory and application of the interrelationships of the anatomical and mechanical principles governing human movement. Emphasis is placed on activities of sport and daily living. Laboratory is included. Prerequisites: BIO 140 or BIO 340-341, HS 251, current Community First Aid and CPR certification (or acceptable equivalent), or consent of instructor. Laboratory fee. Offered on demand for Deerfield traditional undergraduate. Delivery mode: Deerfield traditional undergraduate.

**HS 360 General Medical Conditions in the Physically Active - 3 Hours**

The course covers the knowledge, skills, and values that the entry-level certified athletic trainer must possess to recognize, treat, and refer when appropriate the general medical conditions of athletes and other physically active individuals. Major areas of study include various body systems, common illnesses and ailments, and athletic implications for common medical conditions, such as diabetes, asthma, and weather-related illnesses. Prerequisite: HS 168. Offered spring semester for Deerfield traditional undergraduate. Delivery mode: Deerfield traditional undergraduate.

**HS 364 Rehabilitation and Therapeutic Exercise - 3 Hours**

The course will examine the scientific basis for progression in rehabilitation and therapeutic exercise. Specific techniques for numerous anatomical and physiological dysfunction will be critiqued and applied. Designed in a lecture/laboratory setting for those pursuing a career in athletic training or other health sciences professions. Prerequisites: HS 168, current Community First Aid and CPR certification (or acceptable equivalent) or consent of instructor. Offered spring semester for Deerfield traditional undergraduate. Delivery mode: Deerfield traditional undergraduate.

**HS 365 Motor Learning and Lifespan Development - 3 Hours**

A study of basic principles of motor learning and motor development as they relate to human voluntary movement across lifespan. This course is designed to provide theory and application related to the process of acquiring functional motor skills, the performance enhancement of learned or highly experienced motor skills, or the re-acquisition of skills that are difficult to perform or cannot be performed because of injury or disease. Additional emphasis on how to create and implement developmentally appropriate movement programs. Delivery mode: Deerfield traditional undergraduate.

**HS 366 Therapeutic Modalities and Pharmacology - 3 Hours**

A lecture/laboratory course designed to examine the theory and application of therapeutic modalities, as well as the field of pharmacology and ergogenic aids. The class will emphasize the development of critical thinking skills and application of scientific principles to the critique and use of products currently on the market. Prerequisites: HS 168, current Community First Aid and CPR certification (or acceptable equivalent) or consent of instructor. Laboratory fee. Offered fall semester for Deerfield traditional undergraduate. Delivery mode: Deerfield traditional undergraduate.

**HS 370 Introduction to Therapeutic Modalities and Rehabilitation - 3 Hours**

A lecture/laboratory course designed to introduce the basic theory and application of therapeutic modalities and rehabilitation. Emphasis on tissue healing, functional progression, pain control, indications, contraindications, protocols, and the body's response to therapeutic agents and exercise. Prerequisites: HS 168 or consent of instructor. Laboratory fee. Delivery mode: Deerfield traditional undergraduate.

**HS 380 Advanced Functional Anatomy - 3 Hours**

This course provides an advanced study of the functional anatomy of the human body through the interrelationship of structure and function. An emphasis on how injury, illness, and disease impact the ability of the human body to perform activities of daily living. Offered on demand for Deerfield traditional undergraduate. Delivery mode: Deerfield traditional undergraduate.

**HS 402 Sport Nutrition - 3 Hours**

This course will examine the different physiological relationships between nutrition and exercise. Emphasis is placed on the body's metabolic response to a wide range of stresses that occur in different sports and activities, at different intensities, and within different environments. Macro and micronutrients and their respective roles in energy production and the development of improved athletic performance are discussed in detail. In addition, this course will study those methods of assessing an athlete's nutritional needs and status. Prerequisites: HS 201; HS 202. Offered on demand for Deerfield traditional undergraduate. Delivery mode: Deerfield traditional undergraduate.

**HS 410 Health Sciences Seminar - 1 Hour**

This course includes presentations and discussions of selected papers, topics of current interest in the field, senior research projects by students, and invited speakers. Starting in the student's second year in a Health Sciences major, this course must be taken each semester it is offered until graduation or changing of major. The student will audit all semesters except one. During the spring semester of the student's senior year, the course must be taken for credit and a senior presentation will be required. Prerequisite: major in the Health Sciences or consent of the instructor. This course fulfills the IDS 499X Integrative Thought Capstone requirement for students in the Athletic Training major. Offered every semester for Deerfield traditional undergraduate. Delivery mode: Deerfield traditional undergraduate.

**HS 446 Field Internship - 3-12 Hours**

Professional internship experience in an applied field under the dual supervision of a Trinity College faculty member in the Division of Science Technology and Health and a practicing on-site professional. May be repeated for credit. Prerequisites: departmental approval and current Community First Aid and CPR certification (or acceptable equivalent). Satisfies the Professional Experience Requirement. Offered each semester for Deerfield traditional undergraduate. Delivery mode: Deerfield traditional undergraduate.

**HS 450 Independent Study - 1-4 Hours**

Research and specialized studies designed to meet the needs of individual students. Prerequisite: consent of instructor. Offered on demand for Deerfield traditional undergraduate. Delivery mode: Deerfield traditional undergraduate.

**HS 454 Measurement, Research, Statistics and Technology - 3 Hours**

A lecture/laboratory approach to the measurement techniques, instruments, research methodology, and technology used in the fields of human performance and wellness/health sciences. The course focuses on test selection/construction criteria, standardized tests, and techniques employed in the measurement of the cognitive, affective, and psychomotor domains. Common statistical models will be used to evaluate the measurement results and to apply them in the processes of exercise prescription and wellness counseling. Laboratory is included. Prerequisites: HPW 201X or HS 351X, and current Community First Aid and CPR certification (or acceptable equivalent). Laboratory fee. Offered fall semester for Deerfield traditional undergraduate. Delivery mode: Deerfield traditional undergraduate.

**HS 455 Advanced Strength Training and Program Design - 3 Hours**

This course explores the scientific foundations of strength training and conditioning and allows students to develop their skills in program development in applied physical training for specific performance populations. It prepares students for the Certified Strength and Conditioning Specialist (CSCS) exam. The CSCS credential identifies those individuals who have knowledge in scientific foundations of strength and conditioning as well as the skills to apply that knowledge in a practical format. Prerequisites: HS 351, current Community First Aid, and CPR certification (or acceptable equivalent), or consent of instructor. Offered fall semester for Deerfield traditional undergraduate. Delivery mode: Deerfield traditional undergraduate.

**HS 456 Administration - 3 Hours**

A capstone course covering theories, procedures, and decision-making skills for management of various institutions and agencies in the fields of human performance and wellness/health sciences. Topics include organization, personnel, facilities and equipment, legal issues, budget and accounting, ethics, and meeting the needs of the consumer. Prerequisites: BIO 140 or BIO 340-341, HS 201X or consent of instructor. Offered fall semester in even-numbered years for Deerfield traditional undergraduate. Delivery mode: Deerfield traditional undergraduate.

**HS 470 Undergraduate Research - 1-4 Hours**

A course involving clinical, laboratory or library investigation of a research problem under faculty supervision. Course requirements include a literature survey, research, a written formal report, and oral presentation of results in either the Health Sciences (HS 410), Biology (BIO 410), or Chemistry (CH 410) Seminar courses. Prerequisites: HS 168 and at least one of the following: BIO 340-BIO 341, HS 261-HS 262. Instructor's consent required. May be repeated for credit. (A laboratory fee may be required, depending on the nature of the project.) Offered on demand for Deerfield traditional undergraduate. Delivery mode: Deerfield traditional undergraduate.

**HS 480 Professional Rotation in Health Sciences - 1-6 Hours**

This course is a supervised experience in one or more professional environment(s) which demonstrates the student's ability to relate knowledge and skills developed in the major to practical tasks in the workplace or clinical setting. Open to majors in the Health Sciences department or by consent of instructor. Planning placement options with the instructor one semester prior to enrollment is required. Satisfies the Professional Experience Requirement. Prerequisites: HS 168, current Community First Aid, and CPR certification (or acceptable equivalent). Offered each semester for Deerfield traditional undergraduate. Laboratory fee. Delivery mode: Deerfield traditional undergraduate.

**HS 490 Seminar in Interprofessional Health Sciences - 1 Hour**

This course includes presentations and discussions of selected papers, topics of current interest in health sciences, student research projects, and invited guest speakers representing the variety of professions within the department. Emphasis on interprofessional practice, ethical decision-making processes, and preparation to enter the discipline specific workforce to enable effective collaboration and improve health outcomes. Prerequisite: major in the discipline or consent of the department chair. This course fulfills the IDS 499X Integrative Thought Capstone requirement for students in the Exercise Science major. Offered spring semester for Deerfield traditional undergraduate. Delivery mode: Deerfield traditional undergraduate.

**HS 5001 Foundations for Integrative Thought in Health Sciences - 3 Hours**

This course surveys the Bible from the standpoint of its unfolding history of creation, fall, redemption, and restoration, with special attention to Scriptural applications of ethical thought and ramifications for ethical behavior. The course considers how precedents, themes, truths, and strategies that established God's will in earlier times provide direction for God's people today. Students will practice interpreting scripture responsibly and thinking creatively about current health sciences issues in the light of biblical principles. Offered online, and face to face at the Deerfield and Florida campuses.

**HS 5002 Foundations for Cultural Engagement in Health Sciences - 3 Hours**

This course introduces the student to pivotal Christian doctrines as a framework within which to evaluate the working ethical assumptions of contemporary culture. In addition to investigating several models for Christian engagement with culture, the course encourages the positive formation of a Christian worldview as a foundation for wise interaction with contemporary thought in health sciences. Offered online, and face to face at the Deerfield and Florida campuses.

**HS 5111 Athletic Training Clinical I - 1 Hour**

The first course in a series of four clinical practicum courses designed to provide the athletic training students with guided instruction, supervision and assessment of the Athletic Training Education Competencies, Current Edition. The clinical competencies and proficiencies are adjusted to assist the athletic training student in developing mastery of each, using a flexible modular approach. Each student will be assigned to a clinical assignment(s). Prerequisite: Admission to MA-Athletic Training Program or consent of instructor. Health Sciences laboratory fee.

**HS 5112 Athletic Training Clinical II - 2 Hours**

The second course in a series of four clinical practicum courses designed to provide the athletic training students with guided instruction, supervision and assessment of the Athletic Training Education Competencies, Current Edition. The clinical competencies and proficiencies are adjusted to assist the athletic training student in developing mastery of each, using a flexible modular approach. Each student will be assigned to a clinical assignment(s). Prerequisite: HS 5111; Admission to MA-Athletic Training Program or consent of instructor. Health Sciences laboratory fee.

**HS 5168 Prevention and Care of Emergent and Musculoskeletal Injuries and Illnesses - 3 Hours**

A lecture/laboratory approach providing foundation for pursuing a career in athletic training. A systematic approach to conditioning principles, emergency preparation, protective taping/wrapping skills, injury mechanism, resulting pathology, and care of injuries by participation of the physically active population. Policy, procedures, and observation of the athletic training clinic are included. Prerequisites: Admission to MA-Athletic Training Program or consent of instructor. Health Sciences laboratory fee.

**HS 5202 Nutritional Considerations in Healthcare - 3 Hours**

Effects of nutrition on performance and health emphasizing various methods of nutritional analysis, effects of current dietary practices, basic behavior modification techniques, nutritional needs of competitive and special populations and referral resources. Prerequisite: Admission to graduate program in Health Sciences Department or consent of instructor.

**HS 5261 Clinical Examination and Diagnosis I - Lower Extremity - 3 Hours**

The first course in a series of three lecture/laboratory courses designed to assess injuries that are associated with the physically active. On-site and clinical assessment of injuries and illnesses, proper referral, and an understanding of diagnostic equipment utilized in the medical field are included. Critical thinking in realistic scenarios is emphasized. Prerequisites: Admission to MA-Athletic Training Program or consent of instructor. Laboratory fee.

**HS 5262 Clinical Examination and Diagnosis II - Upper Extremity - 3 Hours**

The second course in a series of three lecture/laboratory courses designed to assess injuries that are associated with the physically active. On-site and clinical assessment of injuries and illnesses, proper referral, and an understanding of diagnostic equipment utilized in the medical field are included. Critical thinking in realistic scenarios is emphasized. Prerequisites: HS 5261; Admission to MA-Athletic Training Program or consent of instructor. Laboratory fee.

**HS 5263 Clinical Examination and Diagnosis III - Head, Spine, and Pelvis - 3 Hours**

The third course in a series of three lecture/laboratory courses designed to assess injuries that are associated with the physically active. On-site and clinical assessment of injuries and illnesses, proper referral, and an understanding of diagnostic equipment utilized in the medical field are included. Critical thinking in realistic scenarios is emphasized. Prerequisites: HS 5262; Admission to MA-Athletic Training Program or consent of instructor. Laboratory fee.

**HS 5271 Therapeutic Interventions I - Lower Extremity - 2 Hours**

The first course is a series of three courses examining the scientific basis for progression in rehabilitation and therapeutic exercise. Specific techniques for numerous anatomical and physiological dysfunction will be critiqued and applied. In addition, theory and application of therapeutic modalities, will be addressed. The class will emphasize the development of critical thinking skills and application of scientific principles to the critique and use of therapeutic interventions and products currently on the market. Prerequisites: HS 5261 (concurrent); Admission to MA-Athletic Training Program or consent of instructor. Health Sciences laboratory fee.

**HS 5272 Therapeutic Interventions II - Upper Extremity - 2 Hours**

The second course is a series of three courses examining the scientific basis for progression in rehabilitation and therapeutic exercise. Specific techniques for numerous anatomical and physiological dysfunction will be critiqued and applied. In addition, theory and application of therapeutic modalities, will be addressed. The class will emphasize the development of critical thinking skills and application of scientific principles to the critique and use of therapeutic interventions and products currently on the market. Prerequisites: HS 5271; HS 5262 (concurrent); Admission to MA-Athletic Training Program or consent of instructor. Health Sciences laboratory fee.

**HS 5273 Therapeutic Interventions III - Head, Spine, and Pelvis - 2 Hours**

The third course is a series of three courses examining the scientific basis for progression in rehabilitation and therapeutic exercise. Specific techniques for numerous anatomical and physiological dysfunction will be critiqued and applied. In addition, theory and application of therapeutic modalities, will be addressed. The class will emphasize the development of critical thinking skills and application of scientific principles to the critique and use of therapeutic interventions and products currently on the market. Prerequisites: HS 5272; HS 5263 (concurrent); Admission to MA-Athletic Training Program or consent of instructor. Health Sciences laboratory fee.

**HS 5311 Athletic Training Clinical III - 2 Hours**

The third course in a series of four clinical practicum courses designed to provide the athletic training students with guided instruction, supervision and assessment of the Athletic Training Education Competencies, Current Edition. The clinical competencies and proficiencies are adjusted to assist the athletic training student in developing mastery of each, using a flexible modular approach. Each student will be assigned to a clinical assignment(s). Prerequisite: HS 5112; Admission to MA-Athletic Training Program or consent of instructor. Health Sciences laboratory fee.

**HS 5312 Athletic Training Clinical IV - 2 Hours**

The fourth course in a series of four clinical practicum courses designed to provide the athletic training students with guided instruction, supervision and assessment of the Athletic Training Education Competencies, Current Edition. The clinical competencies and proficiencies are adjusted to assist the athletic training student in developing mastery of each, using a flexible modular approach. Each student will be assigned to a clinical assignment(s). Prerequisite: HS 5311; Admission to MA-Athletic Training Program or consent of instructor. Health Sciences laboratory fee.

**HS 5410 Athletic Training Seminar - 1 Hour**

This course includes presentations and discussions of selected papers, topics of current interest in the field, research projects by students, and invited speakers. For students in the MA-Athletic Training Program, this course must be taken each semester until graduation. Prerequisite: Admission to MA-Athletic Training Program. Taken each semester during the MA-AT curriculum. Offered every semester.

**HS 6285 Statistics and Research in Healthcare - 3 Hours**

This course seeks to better understand medical statistics as it pertains to practicing evidence based medicine, communicating treatment outcome probability to patients and interpreting the results of studies and scientific papers, and in turn improving quality of patient care. This applies to all specialties in various settings of practice. Research methods in health sciences and healthcare research are explored. Topics include measurement of health-related quality of life, case mix and comorbidity, quality of health care and analysis of variations in health care practice. Advanced methods in analysis and interpretation of health care outcomes are addressed. This includes application of traditional research designs (e.g., randomized trials) to address health care research questions. Prerequisite: Admission to graduate program in Health Sciences Department or consent of instructor.

**HS 6401 Pharmacology and Ergogenic Aids - 3 Hours**

This course is an introduction to the general concepts and principles of pharmacology as it relates to the profession of athletic training and disciplines within the health sciences. An explanation of pharmacokinetic and pharmacodynamic principles will be presented. The course will cover the indications, contraindications, precautions, dose information, allergies, and adverse side effects of prescription and non-prescription drugs as they relate to injuries or illnesses commonly acquired by the physically active person. The potential problematic interaction of medications will also be addressed. The governing regulations relevant to treating and caring for injuries and illnesses, including storing, transporting, dispensing, and recording of medication will be revealed. Performance-enhancing substances and an introduction to the process of drug testing in sports will also be expressed. Prerequisites: Admission to MA-Athletic Training Program or consent of instructor.

**HS 6430 General Medical Conditions - 3 Hours**

This course covers the knowledge, skills, and values that the certified athletic trainer must possess to recognize, treat, and refer when appropriate the general medical conditions of athletes and other physically active individuals. Major areas of study include various body systems, common illnesses and ailments, and athletic implications for common medical conditions, such as diabetes, asthma, and weather-related illnesses. Prerequisite: Admission to MA-Athletic Training Program or consent of instructor.

**HS 6450 Leadership and Professional Development in Healthcare - 3 Hours**

This course will allow for the development of a variety of professional development behaviors and leadership qualities necessary in healthcare, from a Christian perspective. Topics include service learning, group dynamics, conflict resolution, professional engagement and advocacy, volunteerism, professional service, and strategic planning. Prerequisite: Admission to MA-Athletic Training Program or consent of instructor.

**HS 6456 Healthcare Administration - 3 Hours**

An interprofessional course covering theories, procedures, and decision-making skills for management of various institutions and agencies in the fields of health sciences and healthcare. Topics include organization, personnel, facilities and equipment, legal issues, insurance, reimbursement, budget and accounting, ethics, and meeting the needs of the consumer. Prerequisites: Admission to graduate program in Health Sciences Department or consent of instructor.

**HS 6470 Psychosocial Aspects and Behavioral Change - 3 Hours**

This course will survey the distribution, determinants, and psychological and behavioral aspects of health, mental health and wellness across the life span, particularly from a Christian perspective. Social, economic, environmental, cultural, and spiritual variations in and determinants of health, mental health, disease, and quality of life will be addressed. This course will also examine relationships between psychological function and participation in sport and exercise. Topics also include motivation, stress, group dynamics, performance enhancement, examination of diversity and social inequality as they relate to health and physical activity. Prerequisite: Admission to MA-Athletic Training Program or consent of instructor.

**HS 6511 Athletic Training Clinical Capstone I - 2 Hours**

The first course in a series of two courses including supervised clinical experience in one or more professional environment(s) which demonstrates the student's ability to relate knowledge and skills developed in previous courses to practical tasks in the workplace or clinical setting. It is designed as an internship with a healthcare professional and may include observation, practicum, and research in health sciences and healthcare. Prerequisites: HS 5312; Admission to MA-Athletic Training Program. Health Sciences laboratory fee.

**HS 6512 Athletic Training Clinical Capstone II - 2 Hours**

The second course in a series of two courses including supervised clinical experience in one or more professional environment(s) which demonstrates the student's ability to relate knowledge and skills developed in previous courses to practical tasks in the workplace or clinical setting. It is designed as an internship with a healthcare professional and may include observation, practicum, and research in health sciences and healthcare. Prerequisites: HS 6511; Admission to MA-Athletic Training Program. Health Sciences laboratory fee.