DEPARTMENT OF REHABILITATION AND MOVEMENT SCIENCE

http://www.uvm.edu/cnhs/rms/

Exercise is a key to the maintenance of health and the prevention of heart disease, osteoporosis, diabetes, obesity and associated degenerative diseases and chronic conditions.

The Department of Rehabilitation and Movement Science offers undergraduate majors in Athletic Training and Exercise Science, a Master of Science in Athletic Training, Master of Science in Physical Activity and Wellness Science and a doctoral degree in Physical Therapy. A minor in Emergency Medical Services is also available. Graduates of these programs influence individuals across the life span by fostering wellness, preventing injuries and disease, facilitating high levels of skill, maintaining or restoring fitness, and rehabilitating individuals with injuries, diseases, chronic conditions and disabilities.

Requirements for admission are the same as the general university requirements, with the addition that applicants must have taken high school biology, mathematics through trigonometry or precalculus, and chemistry; physics is highly recommended.

MAJORS
REHABILITATION AND MOVEMENT SCIENCE MAJORS
Athletic Training Education B.S.
Exercise Science B.S.

MINORS AND CERTIFICATES
REHABILITATION AND MOVEMENT SCIENCE MINORS AND UNDERGRADUATE CERTIFICATES
Emergency Medical Services
Integrated Health and Wellness Coaching - Undergraduate Certificate
Integrative Health Care - Undergraduate Certificate

GRADUATE
Athletic Training M.S.
Human Functioning and Rehabilitation Science Ph.D.
Physical Activity and Wellness Science M.S.
Physical Therapy D.P.T.

See the online Graduate Catalogue for more information

Athletic Training Courses
AT 091. Independent Study. 1-18 Credits.
A course which is tailored to fit the interests of a specific student, which occurs outside the traditional classroom/laboratory setting under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

AT 093. Internship. 1-3 Credits.
On-site supervised work experience combined with a structured academic learning plan directed by a faculty member or a faculty-staff team in which a faculty member is the instructor of record, for which academic credit is awarded. Offered at department discretion.

AT 161. Practicum in Athletic Trng III. 1 Credit.
Course three in a series of practicum courses that sequentially develop clinical skills in a laboratory learning environment.

AT 162. Practicum in Athletic Trng IV. 1 Credit.
Course four in a series of practicum courses that sequentially develop clinical skills in a laboratory learning environment.

AT 168. Directed Obsv. in Athl Trng. 1 Credit.
Students will be expected to complete 60 hours of directed observation experience in the athletic training setting, or as assigned by the Instructor.

AT 171. Clinical Experience in AT III. 1 Credit.
Students gain clinical experiences under the direct supervision of an ATEP approved preceptor.

AT 172. Clinical Experience in AT IV. 1 Credit.
Students gain clinical experiences under the direct supervision of an ATEP approved preceptor.

AT 173. Clinical Experience in AT V. 6-12 Credits.
The senior clinical experience shall consist of supervised fieldwork designed to give students a culminating experience for their professional development. These traditionally consist of both on and off-campus experiences in various settings including high-school, college, orthopedic clinics, and research. Prerequisites: Senior standing in Athletic Training Education Program.

AT 174. Clinical Experience in AT VI. 6-12 Credits.
The senior clinical experience shall consist of supervised fieldwork designed to give students a culminating experience for their professional development. These traditionally consist of both on and off-campus experiences in various settings including high-school, college, orthopedic clinics, and research. Prerequisites: Senior standing in Athletic Training Education Program.

AT 187. Rehabilitation Techniques. 3 Credits.
Post-injury and post-operative rehabilitation and conditioning techniques involved in returning an active individual to normal and athletic activity. Pre/co-requisite: AT 157, AT 158, AT 184.

AT 189. Recog & Tx of Med Cond in AT. 3 Credits.
Contemporary general medical issues in the field of Athletic Training. Topics include general medical conditions and disabilities, systemic diseases, pharmacology, and male & female health issues. Prerequisites: Junior standing; Athletic Training Major.
AT 190. Senior Seminar in AT I. 2 Credits.
This seminar serves to promote professional development and demonstration of ATEP proficiency skills through assignments and discussion. This includes creating individualized development plans, resume building, graduate school application/job searching, and preparation for the Board of Certification (BOC) exam for ATs. Prerequisite: Senior standing in Athletic Training Education Program.

AT 191. Independent Study. 1-18 Credits.
A course which is tailored to fit the interests of a specific student, which occurs outside the traditional classroom/laboratory setting under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

AT 192. Senior Seminar in AT II. 2 Credits.
This seminar serves as a capstone senior course with a primary focus on preparation for the Board of Certification (BOC) exam for ATs. Students also present a case study or debate a current professional topic in preparation for professional matriculation. Prerequisites: AT 159, AT 160, AT 161, AT 162, AT 184, AT 185, AT 187, AT 189, AT 190, RMS 188, RMS 244.

AT 193. Internship. 1-18 Credits.
On-site supervised work experience combined with a structured academic learning plan directed by a faculty member or a faculty-staff team in which a faculty member is the instructor of record, for which academic credit is awarded. Offered at department discretion.

AT 197. Teaching Assistantship. 1-3 Credits.
Undergraduate student service as a teaching assistant, usually in an introductory-level course in the discipline, for which credit is awarded. Offered at department discretion.

AT 198. Undergraduate Research. 1-18 Credits.
Undergraduate student work on individual or small team research projects under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

AT 220. Evidence-Based Practice in AT. 3 Credits.
Teaches basic evidence-based practice knowledge and skills, and apply findings to practice as a health care professional. Topics addressed include EBP research methods, research study design, statistics, and evaluation of research evidence as they apply to athletic training clinical practice and decision making. Prerequisites: Minimum Junior standing; Athletic Training major.

AT 291. Independent Study. 1-18 Credits.
A course which is tailored to fit the interests of a specific student, which occurs outside the traditional classroom/laboratory setting under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

AT 293. Internship. 1-18 Credits.
On-site supervised work experience combined with a structured academic learning plan directed by a faculty member or a faculty-staff team in which a faculty member is the instructor of record, for which academic credit is awarded. Offered at department discretion.

AT 297. Teaching Assistantship. 1-3 Credits.
Undergraduate student service as a teaching assistant, usually in an introductory-level course in the discipline, for which credit is awarded. Offered at department discretion.

AT 298. Undergraduate Research. 1-18 Credits.
Undergraduate student work on individual or small team research projects under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

Exercise Science Courses
EXSC 090. Internship. 1-3 Credits.
On-site supervised work experience combined with a structured academic learning plan directed by a faculty member or a faculty-staff team in which a faculty member is the instructor of record, for which academic credit is awarded. Offered at department discretion.

EXSC 092. Independent Study. 1-18 Credits.
A course which is tailored to fit the interests of a specific student, which occurs outside the traditional classroom/laboratory setting under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

EXSC 096. Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

EXSC 150. Intro to Exercise Science. 1 Credit.
Introduces students to the discipline of exercise science, the responsibilities of the exercise science professional, and varied career paths in the field.

EXSC 190. Internship. 1-18 Credits.
On-site supervised work experience combined with a structured academic learning plan directed by a faculty member or a faculty-staff team in which a faculty member is the instructor of record, for which academic credit is awarded. Offered at department discretion.

EXSC 192. Independent Study. 1-18 Credits.
A course which is tailored to fit the interests of a specific student, which occurs outside the traditional classroom/laboratory setting under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

EXSC 196. Intermediate Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

EXSC 197. Teaching Assistantship. 1-3 Credits.
Undergraduate student service as a teaching assistant, usually in an introductory level course in the discipline, for which credit is awarded. Offered at department discretion.

EXSC 198. Undergraduate Research. 1-18 Credits.
Undergraduate student work on individual or small team research projects under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

EXSC 240. Motor Skill Learning & Control. 3 Credits.
Examines theoretical perspectives and current principles associated with the control and learning of movement skills. Practical application of concepts to instructional and clinical settings emphasized. Prerequisites: ANPS 019, ANPS 020; Minimum Junior standing.
EXSC 242. Exercise and Sport Psychology. 3 Credits.  
Emphasis on personality and behavioral dynamics of sport, psychological changes associated with exercise, assessment, performance enhancement, motivation, anxiety, group processes, and exercise adoption and maintenance. Prerequisite: PSYS 001.

EXSC 244. Nutrition for Health & Fitness. 3 Credits.  
Explores how nutrition can influence overall health, disease, fitness and performance. Prerequisite: NFS 043.

EXSC 245. Evaluation & Prescription. 3 Credits.  
This course will deliver in-depth applied and clinical functional measurement and evaluation techniques with subsequent exercise prescription for a variety of populations and conditions. Pre/Co-requisites: RMS 250; Senior standing in Exercise Science.

EXSC 260. Adapted Physical Activity. 3 Credits.  
Examines current issues surrounding physical activity programming for individuals with disabilities. Emphasizes instructional strategies and modifications for effectively including individuals with diverse abilities into physical activity. Prerequisite: Minimum Junior standing.

EXSC 262. Human Perf & Ergogenic Aids. 3 Credits.  
Evaluates the role and effectiveness of performance enhancing substances in sports: including supplements, diets, banned substances, prescription and social drugs, and others. Prerequisites: ANPS 019, ANPS 020, EXSC 244.

EXSC 263. Exercise in Chronic Conditions. 3 Credits.  
Advanced course in exercise prescription for a variety of unique populations. Recommended modifications and techniques that support fitness testing and and programming for individuals with specific exercise needs will be reviewed. Prerequisites: EXSC 260, RMS 250; Senior standing in Exercise Science.

EXSC 264. Certified Exerc Physiologist. 3 Credits.  
Designed to prepare students for the ACSM Certified Exercise Physiologist exam and includes a high level review of exercise physiology, risk stratification, and fitness assessments. Prerequisites: RMS 250, EXSC 245; Senior standing.

EXSC 268. Exercise Program Design. 3 Credits.  
Students will gain competency prescribing, designing, monitoring, and adapting exercise based on scientific evidence to a wide range of individuals-from healthy to those with co-morbidities. Prerequisites: RMS 250, EXSC 245, Senior standing.

EXSC 270. Exer Sci Professional Seminar. 1 Credit.  
Junior seminar that bridges the foundational curricular experience with professional practice and/or post-graduate education. Professional seminar topics include but are not limited to: resume development, interviewing techniques, collaborative communication, etc.

EXSC 272. Senior Capstone Experience. 1-6 Credits.  
Supervised capstone experience in Exercise Science. Prerequisite: Senior standing in Exercise Science.

EXSC 273. EXSC WE Leadership. 3 Credits.  
Seminar serves as a leadership experience for Exercise Science students; offers applied experience in the UVM Wellness Environment. Prerequisite: Minimum Junior standing.

EXSC 290. Internship. 1-18 Credits.  
On-site supervised work experience combined with a structured academic learning plan directed by a faculty member or a faculty-staff team in which a faculty member is the instructor of record, for which academic credit is awarded. Offered at department discretion.

EXSC 292. Independent Study. 1-18 Credits.  
A course which is tailored to fit the interests of a specific student, which occurs outside the traditional classroom/laboratory setting under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

EXSC 296. Advanced Special Topics. 1-18 Credits.  
See Schedule of Courses for specific titles.

EXSC 297. Teaching Assistantship. 1-3 Credits.  
Undergraduate student service as a teaching assistant, usually in an introductory level course in the discipline, for which credit is awarded. Offered at department discretion.

EXSC 298. Undergraduate Research. 1-18 Credits.  
Undergraduate student work on individual or small team research projects under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

Rehabilitation Movement Sci Courses

RMS 090. Internship. 1-3 Credits.  
On-site supervised work experience combined with a structured academic learning plan directed by a faculty member or a faculty-staff team in which a faculty member is the instructor of record, for which academic credit is awarded. Offered at department discretion.

RMS 092. Independent Study. 1-18 Credits.  
A course which is tailored to fit the interests of a specific student, which occurs outside the traditional classroom/laboratory setting under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

RMS 157. Prevention & Care Athletic Inj. 3 Credits.  
Course focuses on prevention, recognition, and care of injuries incurred by the physically active. Includes topics of anatomy, biomechanics, nutrition, environmental concerns, and emergency procedures.

RMS 175. Applied Kinesiology. 3 Credits.  
Foundational course examining applied kinesiology of human movement with focus on musculoskeletal anatomy. Prerequisite: First-year Athletic Training major or second-year Exercise and Movement Science major.

RMS 188. D2:Org&Ldrship in AthTrn&Ex Sc. 3 Credits.  
Concepts of diversity, equity, and active citizenship in health care management, professional development, leadership, and professional ethics for athletic training and exercise-related professions. Pre/co-requisites: Junior standing; AT and EMS majors only.
RMS 190. Internship. 1-18 Credits.
On-site supervised work experience combined with a structured academic learning plan directed by a faculty member or a faculty-staff team in which a faculty member is the instructor of record, for which academic credit is awarded. Offered at department discretion.

RMS 191. Iceland Ther Thermal Springs. 3 Credits.
Travel study course to Southern Iceland; explores the therapeutic effects of thermal water as part of an integrative approach to healthcare and wellness; an elective for students interested in integrative healthcare, wellness, human physiology. Prerequisites: Minimum Junior standing; Instructor permission.

RMS 192. Independent Study. 1-18 Credits.
A course which is tailored to fit the interests of a specific student, which occurs outside the traditional classroom/laboratory setting under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

RMS 197. Teaching Assistantship. 1-3 Credits.
Undergraduate student service as a teaching assistant, usually in an introductory level course in the discipline, for which credit is awarded. Offered at department discretion.

RMS 198. Undergraduate Research. 1-18 Credits.
Undergraduate student work on individual or small team research projects under the supervision of a faculty member, for which credit is awarded. Offered at department discretion. Prerequisite: RMS 220.

RMS 213. Biomechanics of Human Movement. 3 Credits.
Students learn to apply kinesiology and biomechanical principles and concepts to the analysis of human movement, posture, joint structure and function, and gait. Pre/co-requisites: ANPS 019/ANPS 020, and Undergraduate Physics.

RMS 220. Research Methods I. 3 Credits.
Focuses on critical analysis of research literature. Emphasis on critically reading and interpreting published research regarding applicability to the practice of health care professionals. Pre/co-requisite: Undergraduate Statistics.

RMS 250. Exercise Physiology. 3 Credits.
An exploration of the acute and long-term responses to exercise on the metabolic, skeletal, cardiovascular, and respiratory systems. Prerequisites: ANPS 019, ANPS 020; Athletic Training majors only or Instructor permission.

RMS 252. Exercise Physiology Lab. 1 Credit.
The main objective of this laboratory course is to learn how to measure and evaluate physiological function and structure.

RMS 290. Internship. 1-18 Credits.
On-site supervised work experience combined with a structured academic learning plan directed by a faculty member or a faculty-staff team in which a faculty member is the instructor of record, for which academic credit is awarded. Offered at department discretion.

RMS 292. Independent Study. 1-18 Credits.
A course which is tailored to fit the interests of a specific student, which occurs outside the traditional classroom/laboratory setting under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

RMS 297. Teaching Assistantship. 1-3 Credits.
Undergraduate student service as a teaching assistant, usually in an introductory level course in the discipline, for which credit is awarded. Offered at department discretion.

RMS 298. Undergraduate Research. 1-18 Credits.
Undergraduate student work on individual or small team research projects under the supervision of a faculty member, for which credit is awarded. Offered at department discretion. Prerequisite: RMS 220.