School of Rehabilitation Sciences

2152 Health Sciences Building
757- 683-4519
http://www.odu.edu/rehabsci/dpt

Steven Morrison, Chair
Michael Tamburello, Graduate Program Director

Doctor of Physical Therapy

The Doctor of Physical Therapy (http://www.odu.edu/ptat/curriculum/) degree is designed to professionally prepare students with the knowledge and clinical experiences to become licensed physical therapists who will enter general physical therapy practice. Upon graduation, students will be prepared to sit for licensure in any United States jurisdiction and practice in any health care setting where physical therapy is offered. The curriculum consists of 116 credit hours over a three-year period of time including summers. There are three full-time clinical internships totaling 32 weeks. The first two are completed over the second and third summers, with the final 14 weeks of clinical education occurring in the spring semester preceding graduation. A variety of clinical facilities locally, throughout Virginia, and the United States are used for internship experiences. Students are responsible for providing their own transportation to these off-campus clinical sites.

Requirements for Admission

Students are admitted to the program after completion of a bachelor’s degree and prerequisite course work. The application deadline is November 1 of each year, and the program begins the last week in June. Specific procedures for admission must be followed including the verification of meeting the technical standards. Admission into the program is competitive.

An application to the University and a separate application to the Physical Therapy Centralized Application Service (PTCAS) must be submitted. The PTCAS website will be open to applicants August 1 each year at www.PTCAS.org (http://www.PTCAS.org). Deadline for application submission is November 1 each year. Please follow the directions for application found at the PTCAS site.

A competitive admission process is used for determining acceptance. Excellent ODU students may qualify for guaranteed entry into the Doctor of Physical Therapy program. For criteria and additional information, please contact the Pre-Health Undergraduate Advisor from Exercise Science (757) 683-4995 or College of Health Sciences advisor at (757) 683-5137.

Degree Requirements

Prerequisite courses include the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 130M</td>
<td>Elementary Statistics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 121N</td>
<td>General Biology I</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 122N</td>
<td>General Biology I Lab</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 123N</td>
<td>General Biology II</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 124N</td>
<td>General Biology II Lab</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 240</td>
<td>Fundamentals of Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>or BIOL 250</td>
<td>Human Anatomy and Physiology I</td>
<td></td>
</tr>
<tr>
<td>BIOL 241</td>
<td>Fundamentals of Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>or BIOL 251</td>
<td>Human Anatomy and Physiology II</td>
<td></td>
</tr>
<tr>
<td>Two semesters of Chemistry, including labs</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Two semesters of Physics, including labs</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Psychology</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

An introductory course in Biomechanics or Kinesiology recommended but not required

| Total Hours | 38 |

Students are required to pass written and oral comprehensive examinations prior to graduation. Comprehensive examinations take place in the final academic semester prior to the terminal two clinical internships.

Curriculum Schedule

### Year 1

#### Summer

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT 630</td>
<td>Mechanical Properties of Human Tissues in Rehabilitation</td>
<td>1</td>
</tr>
<tr>
<td>PT 621</td>
<td>Introduction to Physical Therapy</td>
<td>2</td>
</tr>
<tr>
<td>AT 691</td>
<td>Gross Anatomy for the Rehabilitation Sciences</td>
<td>6</td>
</tr>
</tbody>
</table>

#### Fall

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT 627</td>
<td>Theory and Practice I</td>
<td>4</td>
</tr>
<tr>
<td>PT 634</td>
<td>Clinical Sciences I</td>
<td>3</td>
</tr>
<tr>
<td>PT 640</td>
<td>Patient Evaluation I</td>
<td>3</td>
</tr>
<tr>
<td>PT 655</td>
<td>Clinical Problem Solving I</td>
<td>2</td>
</tr>
<tr>
<td>PT 665</td>
<td>Biomechanics/Kinesiology I</td>
<td>3</td>
</tr>
<tr>
<td>PT 792</td>
<td>Neuroscience I</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Spring

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT 628</td>
<td>Theory and Practice II</td>
<td>4</td>
</tr>
<tr>
<td>PT 635</td>
<td>Clinical Sciences II</td>
<td>3</td>
</tr>
<tr>
<td>PT 641</td>
<td>Patient Evaluation II</td>
<td>3</td>
</tr>
<tr>
<td>PT 656</td>
<td>Clinical Problem Solving II</td>
<td>3</td>
</tr>
<tr>
<td>PT 666</td>
<td>Biomechanics/Kinesiology II</td>
<td>2</td>
</tr>
<tr>
<td>PT 638</td>
<td>Exercise Physiology</td>
<td>2</td>
</tr>
<tr>
<td>PT 793</td>
<td>Neuroscience II</td>
<td>3</td>
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### Year 2

#### Summer

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT 669</td>
<td>Clinical Experience I</td>
<td>4</td>
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</tbody>
</table>

#### Fall

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT 810</td>
<td>Scientific Inquiry I</td>
<td>3</td>
</tr>
<tr>
<td>PT 826</td>
<td>Theory and Practice III</td>
<td>4</td>
</tr>
<tr>
<td>PT 836</td>
<td>Clinical Sciences III</td>
<td>3</td>
</tr>
<tr>
<td>PT 857</td>
<td>Clinical Problem Solving III</td>
<td>3</td>
</tr>
<tr>
<td>PT 880</td>
<td>Psychosocial Aspects of Patient Care</td>
<td>2</td>
</tr>
<tr>
<td>PT 870</td>
<td>Pediatric Rehabilitation</td>
<td>3</td>
</tr>
<tr>
<td>PT 884</td>
<td>Clinical Teaching and Professional Communication</td>
<td>3</td>
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</table>

#### Spring

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT 842</td>
<td>Patient Evaluation III</td>
<td>3</td>
</tr>
<tr>
<td>PT 822</td>
<td>Scientific Inquiry II</td>
<td>2</td>
</tr>
<tr>
<td>PT 827</td>
<td>Theory and Practice IV</td>
<td>4</td>
</tr>
<tr>
<td>PT 837</td>
<td>Clinical Sciences IV</td>
<td>3</td>
</tr>
<tr>
<td>PT 858</td>
<td>Clinical Problem Solving IV</td>
<td>3</td>
</tr>
<tr>
<td>PT 881</td>
<td>Inter-Professional Case Management for Special Populations</td>
<td>3</td>
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</table>

### Year Three

#### Summer

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT 875</td>
<td>Clinical Experience II</td>
<td>6</td>
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</tbody>
</table>

#### Fall

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT 893</td>
<td>Research Topics</td>
<td>2</td>
</tr>
<tr>
<td>PT 892</td>
<td>Seminar in Inter-Professional Practice</td>
<td>1</td>
</tr>
<tr>
<td>PT 882</td>
<td>Practice Management</td>
<td>3</td>
</tr>
<tr>
<td>PT 896</td>
<td>Topics in Physical Therapy II</td>
<td>1</td>
</tr>
<tr>
<td>PT 890</td>
<td>Differential Diagnosis Seminar</td>
<td>3</td>
</tr>
<tr>
<td>PT 883</td>
<td>Professional Issues in Physical Therapy</td>
<td>2</td>
</tr>
<tr>
<td>PT 891</td>
<td>Seminar in Scientific Inquiry</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Spring
Master of Science in Athletic Training

PROFESSIONAL (ENTRY-LEVEL) DEGREE PROGRAM

Julie Cavallario, PhD, ATC

Graduate Program Director of Athletic Training
School of Physical Therapy and Athletic Training
2134A Health Sciences Building
757-683-4351

The Master of Science of Athletic Training degree program is a professional (entry-level) athletic training program that addresses the curricular content necessary for safe and proficient patient care. The curriculum addresses the six core competencies expected of all healthcare providers (evidence-based practice, quality improvement, use of healthcare informatics, patient-centered care, interprofessional education and collaborative practice, and professionalism). Classroom learning is enhanced through clinical education experiences which provide students with supervised hands-on learning opportunities necessary to develop the knowledge, skills, and abilities needed for autonomous clinical practice.

Admission and Entrance Requirements

Requirements for Admission:

Students are admitted to the program after completion of a bachelor’s degree and prerequisite course work. Courses for the program begin in May, during the first summer session, and continue for two calendar years. Specific procedures for admission must be followed including the verification of meeting the technical standards. Admission into the program is competitive.

An application to the University and a separate application to the Athletic Training Centralized Application Service (ATCAS) must be submitted. The ATCAS website will be open to applicants August 1 each year at https://atcas.liaisoncas.com/applicant-ux/#/login. Applications are reviewed beginning October 15 each year, and continue until all positions are filled. Please follow the directions for application found at the ATCAS site.

An applicant seeking admission to the MSAT degree program must have:

1. a bachelor’s degree and official transcripts from each undergraduate and graduate program attended at a regionally-accredited institution, or an equivalent foreign institution;
2. a minimum overall grade point average of 3.0 in undergraduate coursework.

Acceptance into the graduate school does not imply automatic acceptance into the athletic training program.

Other Application Requirements & Prerequisite courses:

The applicant will also need to submit documentation (via ATCAS) demonstrating the following requirements:

- Verification of 15 clock hours of observation with an athletic trainer;
- Three recommendations from professional or academic references;
- Documentation of current Emergency Cardiac Care (CPR/AED Certification) at the level of a Healthcare Professional; and
- Completion of the following prerequisites at Old Dominion University or another regionally-accredited institution (or international equivalent), with a minimum grade point average of 3.0 (the first five must be laboratory science courses):
  1. Biology
  2. Chemistry
  3. Physics
  4. Anatomy OR Anatomy & Physiology I
  5. Physiology OR Anatomy & Physiology II
  6. Biomechanics OR Kinesiology
  7. Psychology

Continuance and Exit Requirements

Students must meet all requirements for continuance as outlined in the graduate continuance policy for the University. Students completing the program of study must:

1. have an overall grade point average of 3.0;
2. have a GPA of 3.0 in the major;
3. demonstrate writing proficiency;
4. satisfy all course competencies;
5. pass comprehensive examinations;
6. complete a research project;
7. have an exit interview with the program director; and
8. file the necessary paperwork for graduation.

Curriculum

ATHLETIC TRAINING CORE COURSES (57 credit hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT 602</td>
<td>Foundations of Sports Medicine for Healthcare Providers</td>
<td>3</td>
</tr>
<tr>
<td>AT 603</td>
<td>Clinical Examination and Patient Care-Spine &amp; Head</td>
<td>4</td>
</tr>
<tr>
<td>AT 604</td>
<td>Clinical Examination and Patient Care-Lower Extremity</td>
<td>4</td>
</tr>
<tr>
<td>AT 605</td>
<td>Clinical Examination and Patient Care-Upper Extremity</td>
<td>4</td>
</tr>
<tr>
<td>AT 607</td>
<td>Management of Medical Conditions for Healthcare Providers I</td>
<td>3</td>
</tr>
<tr>
<td>AT 612</td>
<td>Functional Movement for Healthcare Providers</td>
<td>3</td>
</tr>
<tr>
<td>AT 617</td>
<td>Management of Medical Conditions for Healthcare Providers II</td>
<td>3</td>
</tr>
<tr>
<td>AT 638</td>
<td>Documentation &amp; Quality Improvement for Healthcare Providers</td>
<td>3</td>
</tr>
<tr>
<td>AT 640</td>
<td>Clinical Medicine for Healthcare Providers I</td>
<td>3</td>
</tr>
<tr>
<td>AT 641</td>
<td>Clinical Medicine for Healthcare Providers II</td>
<td>3</td>
</tr>
<tr>
<td>AT 652</td>
<td>Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>AT 661</td>
<td>Behavioral Health in Sports Medicine</td>
<td>3</td>
</tr>
<tr>
<td>AT 664</td>
<td>Ethics in Healthcare</td>
<td>3</td>
</tr>
<tr>
<td>AT 673</td>
<td>Healthcare Administration and Policy</td>
<td>3</td>
</tr>
<tr>
<td>AT 686</td>
<td>Performance Enhancement in Sports Medicine</td>
<td>3</td>
</tr>
<tr>
<td>AT 687</td>
<td>Contemporary Issues in Athletic Training</td>
<td>2</td>
</tr>
<tr>
<td>AT 689</td>
<td>Professional Competence Assessment in Athletic Training</td>
<td>3</td>
</tr>
<tr>
<td>AT 691</td>
<td>Gross Anatomy for the Rehabilitation Sciences</td>
<td>6</td>
</tr>
</tbody>
</table>

RESEARCH CORE COURSES (5 credit hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT 615</td>
<td>Research I</td>
<td>2</td>
</tr>
<tr>
<td>AT 625</td>
<td>Research II</td>
<td>1</td>
</tr>
<tr>
<td>AT 635</td>
<td>Research III</td>
<td>1</td>
</tr>
<tr>
<td>AT 645</td>
<td>Research IV</td>
<td>1</td>
</tr>
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</table>

PRACTICUM CORE COURSES (7 credit hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT 647</td>
<td>Interprofessional Clinical I</td>
<td>1</td>
</tr>
<tr>
<td>AT 648</td>
<td>Interprofessional Clinical II</td>
<td>1</td>
</tr>
<tr>
<td>AT 666</td>
<td>Athletic Training Practicum I</td>
<td>1</td>
</tr>
<tr>
<td>AT 667</td>
<td>Athletic Training Practicum II</td>
<td>1</td>
</tr>
<tr>
<td>AT 668</td>
<td>Athletic Training Practicum III</td>
<td>2</td>
</tr>
<tr>
<td>AT 669</td>
<td>Athletic Training Practicum IV</td>
<td>1</td>
</tr>
</tbody>
</table>
Center for Brain Research and Rehabilitation

The School of Physical Therapy and Athletic Training has opened a 3,800 square foot research facility (http://www.odu.edu/ptd/resources/) with a large gait/movement assessment area, a room for virtual reality and rehabilitation studies, a multipurpose room for neurologic testing, and office space for faculty and graduate students. A primary research focus relates to neuromechanical basis of human movement under healthy and pathological conditions, with more clinically oriented studies on methods to improve gait and function in people with neurologic impairments. Lab Director, Dr. Steven Morrison, is a leading researcher in identifying risks for falling and testing interventions to prevent falls. This research laboratory is designed for multidisciplinary use by faculty and graduate students in Athletic Training, Physical Therapy, Human Movement Sciences, and Electrical and Computer Engineering. Collaboration among disciplines and with the Virginia Modeling and Simulation Center (VMASC) allows us to participate in exciting research projects exploring new technology in rehabilitation.

ODU Monarch Physical Therapy

The School of Physical Therapy and Athletic Training, with support from the College of Health Sciences and Old Dominion University, operates a physical therapy clinic on the ODU campus. It is located at 1015 West 47th Street. To contact them, call (757) 683-7041. The clinic provides service to ODU faculty, staff and students as well as the neighboring community. It also serves as a site for students to learn to apply assessment, decision-making, and treatment skills. In addition, clinical research studies coordinated with the Center for Brain Research and Rehabilitation are conducted at the clinic.

Ph.D. in Kinesiology and Rehabilitation

Daniel Russell, Graduate Program Director

The Ph.D. in Kinesiology and Rehabilitation is designed for kinesiologists and rehabilitation professionals (athletic trainers, occupational therapists, physical therapists or speech/language pathologists) who are interested in becoming leaders, teachers and scholars in their respective fields. This inter-professional program features faculty from the College of Health Sciences and the College of Education. The curriculum’s core has a focus on motor control and motor learning as applied to mobility, rehabilitation, daily functional activities, communication and swallowing in individuals with and without physical or neurologic impairments. In addition to 6 core courses, students will complete research courses, teaching and/or research apprenticeship courses, and at least two electives for a total of at least 51 credit hours.

This program is designed for people who have already completed a master’s degree or entry-level clinical doctorate and wish to advance the body of knowledge of their respective profession and to assume the role of educator and mentor in an academic, clinical or industrial setting.

Requirements for Admission

Five to seven students will be admitted to the Ph.D. program annually, starting with the fall term. Applications for admission are reviewed by the Ph.D. In Kinesiology and Rehabilitation admissions committee. To qualify for admission, an applicant must meet the general University admission requirements at the graduate level as well as specific program requirements including:

1. Completed graduate degree (Master’s or Clinical Doctorate) from a regionally-accredited institution in kinesiology, exercise science, athletic training, occupational therapy, physical therapy, speech and language pathology, or a related field.
2. A minimum grade point average (GPA) of 3.25 on a 4.0 scale for the graduate degree.
3. Graduate Record Exam (GRE) scores of at least 150 each in the verbal and quantitative sections of the test, and at least 4 on the written section.
4. Three letters of reference a least two of which are from former professors familiar with the applicant’s academic performance.
5. English Proficiency Requirement for those whose first language is not English. (See Admissions website)

Enrollment in the program is limited by number of available faculty mentors matching an applicant’s desired area of research. Interested individuals are advised to call the program to find out whether a mentor is available for their research area of interest.

Application Dates

Applications are due by March 1 for students planning to enter in the fall semester, however applications will be accepted until the cohort is full. Applications for financial assistantship should be submitted by May 1 each year.

Degree Requirements

1. Satisfactory completion of at least 51 semester hours of graduate level coursework with a grade point average of 3.0 or higher, including all required courses as listed below. (Students who receive two or more grades of C or one grade of F may not continue in the program).
2. Acceptable performance on written and oral candidacy examinations to be completed at the end of the program of coursework. Students may re-take the candidacy exams only once.
4. Completion of a dissertation representing the candidate’s ability to conduct scholarly, original research.
5. Successful oral defense of the dissertation.

Time frames for completion of degree requirement

1. The entire process from admission to dissertation defense must be completed within eight years. Exceptions to this time limit require the approval of the graduate program director, the department chair, and the college dean.
2. Academic credit which is more than eight years old at the time of graduation must be re-validated by an examination before the work can be applied to a doctoral degree.
3. The dissertation must be completed within five years after the candidacy exams are passed.
4. Dissertations should be defended at least six weeks prior to the end of the semester in which the student expects to graduate.

Each student is required to have a faculty advisor who will meet with the student upon admission to the program. The faculty advisor, with the graduate program director, approves the student’s plan of study and conducts the written and oral competency exams.

Curriculum

Coursework consists of a total of 51 credit hours, including 18 credit hours of core courses, at least 9 credit hours of research courses, 6 credit hours of experiential learning/apprenticeships, and 6 credit hours of electives. Each student will also complete 12 credit hours of dissertation research. Up to 12 hours of graduate credit may be transferred from another program to be applied to non-core courses. Transfer of credits is approved at the discretion of the guidance committee and the graduate program director.

Kinesiology and Rehabilitation Core Courses (18 Credit Hours Required)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>KRS 830</td>
<td>Theoretical Models in Kinesiology and Rehabilitation</td>
</tr>
<tr>
<td>KRS 835</td>
<td>Critical Appraisal and Synthesis of Evidence in Kinesiology and Rehabilitation</td>
</tr>
<tr>
<td>KRS 851</td>
<td>Motor Performance: Rhythmic/Cyclic Tasks</td>
</tr>
<tr>
<td>KRS 852</td>
<td>Motor Performance: Discrete Tasks</td>
</tr>
<tr>
<td>KRS 855</td>
<td>Neurosciences of Motor Control</td>
</tr>
<tr>
<td>KRS 857</td>
<td>Motor Learning in Rehabilitation</td>
</tr>
</tbody>
</table>
Therapy Program must meet the ODU requirements for admission:
each year, and the program begins during the month of June in the following
and prerequisite course work. The application deadline is December 1 of
Students are admitted to the program after completion of a bachelor's degree
Admission Requirements
Higher Education for Virginia (SCHEV).
the program has been approved by the Southern Association of Colleges
Learning professional curriculum with blended didactic, clinical education
state licensure in occupational therapy practice. The program is an active
based, cohort designed professional doctoral degree program culminating in
Therapy Education
the accreditation standards of the
in the personal essay). opportuni
in the personal essay). opportunities to address diversity factors will be included and awar
describing interests in and readiness
elation. Applicants will be required to participate in a behavioral interview for
work experience will not be allowed to
count toward core and required courses.
Applicants who are non-native speakers of English must satisfy ODU
requirements for English language proficiency. To demonstrate English
language proficiency, students are required to achieve a minimum score of
230 on the Test of English as a Foreign Language (TOEFL) or an 80 on the
The ODU Doctor of Occupational Therapy Program uses the Canvas
Learning Management System throughout the curriculum and to support
off campus, online and fieldwork and campus educational experiences. To
successful in the learning environment, students are required to have
technology reliability (e.g., computer, internet), basic technical skills (e.g.,
understand computer terminology, perform computer operations [create
new documents, use a word processing program]), internet skills (e.g., use
browsers, search for resources, upload/download materials), and effective
online communication skills (e.g., use email, discussion boards, chats, and
messages).

Doctor of Occupational Therapy
Patricia Laverdure, Graduate Program Director of Occupational Therapy
Overview
The Doctor of Occupational Therapy (OTD) program at Old Dominion
University is a full-time enrollment (9 semester), 105 credit, capstone
based, cohort designed professional doctoral degree program culminating in
student eligibility to sit for the national certification examination and obtain
state licensure in occupational therapy practice. The program is an active
learning professional curriculum with blended didactic, clinical education
(fieldwork), service-learning, and capstone components designed to meet the
 accreditation standards of the Accreditation Council for Occupational
Therapy Education (https://acototrackacotec.org/).
The Doctor of Occupational Therapy Program will not admit students
into the program until Candidacy Status has been obtained from
the Accreditation Council for Occupational Therapy Education (ACOTE*)
and the program has been approved by the Southern Association of Colleges
and Schools Commission on Colleges (SACSCOC) and the State Council of
Higher Education for Virginia (SCHEV).
Program Website: https://www.odu.edu/rehabsci/otd (https://www.odu.edu/
rehabsci/otd/)
Admission Requirements
Students are admitted to the program after completion of a bachelor’s degree
and prerequisite course work. The application deadline is December 1 of
each year, and the program begins during the month of June in the following
year. Applicants seeking admissions to the ODU Doctor of Occupational
Therapy Program must meet the ODU requirements for admission:

- A completed online application to the ODU Graduate School (https://
  www.odu.edu/admission/graduate/).
- Transcripts from each academic program attended.
- A cumulative grade point average of 3.0 or more in undergraduate coursework.

In addition, applicants will be required to submit documentation through
the Centralized Application Service for Occupational Therapy Programs
(https://otcas.liaisoncas.com/applicant-ux/#/login) (OTCAS) demonstrating
the following requirements:

- Completion (or courses in progress) of the following prerequisites at
  ODU or another regionally accredited institution with a minimum grade
  point average of 3.0:
  - Anatomy and Physiology (At least 8 credit hours with labs; the
course content must address the organization of cells, tissues, organs, and organ systems in humans)
  - Developmental Psychology (One 3 credit hour child development
  or a lifespan course that includes learning principles and motor,
  language, cognitive, emotional, and social development)
  - Abnormal Psychology or Psychopathology (One 3 credit hour
course addressing psychopathology)
  - Social Science (Two 3 credit hour courses can include other
  psychology courses, sociology, anthropology, economics, political
  science, public health, epidemiology, gerontology, and urban
  studies)
  - Statistics (One 3 credit hour course addressing behavioral,
    educational, psychological, or mathematical statistics. Business
    statistics does not fulfill this requirement)
  - Three recommendations from professional or academic referees.
  - Completion of a personal essay describing interests in and readiness
    for participating in a rigorous professional curriculum (additional
    opportunities to address diversity factors will be included and awarded
    in the personal essay).
  - Completion of ODU observation Occupational Therapy Video Series.
  - Documentation of current Emergency Cardiac Care (CPR/AED
    Certification) at the level of a Health Professional.
  - Attestation of acknowledgement of the NBCOT Character Review
    eligibility requirements for certifying occupational therapy practitioners.
  - Applicants will be required to participate in a behavioral interview for
    admission.
  - Transfer coursework and/or work experience will not be allowed to
    count toward core and required courses.

Curriculum

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>OCCT 721</td>
<td>Foundations of Occupational Therapy Practice</td>
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<tr>
<td>OCCT 749</td>
<td>Occupations I</td>
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<td>OCCT 750</td>
<td>Occupations II</td>
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<td>OCCT 751</td>
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<tr>
<td>OCCT 752</td>
<td>Occupation, Health and Wellness Across the Lifespan</td>
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<tr>
<td>OCCT 753</td>
<td>Pediatric Habilitation and Rehabilitation: Theory and Practice</td>
<td>6</td>
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<tr>
<td>OCCT 754</td>
<td>Professional Reasoning and the Occupational Therapy Process</td>
<td>3</td>
</tr>
</tbody>
</table>

School of Rehabilitation Sciences 4
Students completing the OTD Program of study must:

- Maintain a grade point average of 3.0.
- A minimum grade of C or pass is required in all courses within the curriculum.
- A course may only be repeated one time at its next scheduled offering.
- A maximum of two didactic courses can be repeated.
- A maximum of one Fieldwork I and one Fieldwork II courses can be repeated.
- File the necessary documentation for graduation.

**Continuance and Exit Requirements**

Students must meet all requirements for continuance as outlined in the graduate continuance policy for the University. Following satisfactory completion of the didactic and fieldwork education components of the program, students must complete a self-directed full-time 14-week capstone experience culminating in the completion and dissemination of a scholarly product and a comprehensive oral capstone presentation.

Students completing the OTD Program of study must:

- Maintain a grade point average of 3.0.
- A minimum grade of C or pass is required in all courses within the curriculum.
- A course may only be repeated one time at its next scheduled offering.
- A maximum of two didactic courses can be repeated.
- A maximum of one Fieldwork I and one Fieldwork II courses can be repeated.
- File the necessary documentation for graduation.

**ATHLETIC TRAINING Courses**

**AT 602. Foundations of Sports Medicine for Health Care Providers. 3 Credits.**

An overview of tissue response to injury and pain transmission provide the foundation from which students will learn about physical agents and specific conditions from a medical perspective. Pathology for specific injuries will be taught, and students will become familiar with the theoretical and practical application of physical agents as it relates to tissue response to injury and pain control. An introduction to the basic principles and underlying theories relating to examination and treatment techniques will also be presented. Prerequisite: Students must be admitted into the Master of Science in Athletic Training degree program.

**AT 603. Clinical Examination and Patient Care-Spine & Head. 4 Credits.**

This course is designed to provide information relative to the prevention, recognition, evaluation, treatment, rehabilitation, and return to function and/or activity of athletic injuries involving the spine or head. Prerequisite: Students must be admitted into the Master of Science in Athletic Training program.

**AT 604. Clinical Examination and Patient Care-Lower Extremity. 4 Credits.**

This course is designed to provide information relative to the prevention, recognition, evaluation, treatment, rehabilitation, and return to function and/or activity of athletic injuries involving the lower extremity. Prerequisite: Students must be admitted into the Master of Science in Athletic Training program to register for this course.

**AT 605. Clinical Examination and Patient Care-Upper Extremity. 4 Credits.**

This course is designed to provide information relative to the prevention, recognition, evaluation, treatment, rehabilitation, and return to function and/or activity of athletic injuries involving the upper extremity. Prerequisites: Students must be admitted into the Master of Science in Athletic Training program to register for this course.

**AT 607. Management of Medical Conditions for Healthcare Providers I. 3 Credits.**

Instruction and practice in advanced first aid, Emergency Cardiac Care techniques, and oxygen administration for the paramedical professional. A study of the knowledge and skills required to recognize, triage, refer, and treat, as appropriate, internal injuries, general medical conditions, and disabilities of patients involved in physical activity. Prerequisite: Students must be admitted into the Master of Science in Athletic Training program.

**AT 612. Functional Movement for Healthcare Providers. 3 Credits.**

This course is designed to cover the anatomical and mechanical analysis of human musculoskeletal function. Principles of biomechanics, connective tissue behavior, and muscle physiology are integrated with joint structure and function to form the basis of understanding normal and pathological movement. Prerequisite: AT 691.

**AT 615. Research I. 2 Credits.**

This course is designed to introduce the graduate student to research processes in the athletic training field. The focus is on understanding and recognizing principles of evidence-based practice in athletic training, understanding the elements of evidence, appraising the evidence, and considering the evidence for use in clinical practice. Prerequisite: Students must be admitted into the Master of Science in Athletic Training program to register for this course.

**AT 617. Management of Medical Conditions for Healthcare Providers II. 3 Credits.**

Advanced management of acute conditions including wound management, phlebotomy, medication administration, dislocation reduction, and appropriate referral strategies. Advanced therapeutic techniques will also be incorporated. Prerequisite: AT 607.

**AT 618. Current Research in Athletic Training. 1 Credit.**

Designed to provide an understanding of evidence-based practice to the sports medicine setting and the intricacies of performing evidence-based practice research projects.
AT 623. Athletic Training Practicum I. 1 Credit.
This course is designed to provide practical experience in the athletic training setting and an understanding of evidence-based practice in sports medicine.

AT 625. Research II. 1 Credit.
This course is designed to systematically guide professional athletic training students through the research process. Coursework will focus on development of an original research idea, building the theoretical background, and identifying the rationale for a research project. Based on the nature of this course, students will be required to meet with a research supervisor outside of the time permitted for class. Prerequisites: AT 615.

AT 626. Advanced Orthopaedic Evaluation and Rehabilitation. 4 Credits.
This course is designed for sports medicine clinicians and will focus on advanced topics in the study of orthopaedic evaluation, assessment, management, and rehabilitation of common athletic injuries. A combination of discussion, lecture, critical review of literature, laboratory activities, and student presentations will be employed throughout the course.

AT 628. The Spine: Evaluation and Rehabilitation. 3 Credits.
A course designed to provide information relative to the recognition, evaluation, and treatment of athletic injuries involving the spine.

AT 630. Interprofessional Healthcare in Clinical Practice. 3 Credits.
This clinical experience entails interaction with healthcare providers associated with sports medicine specialties and general medical concerns.

AT 633. Athletic Training Practicum II. 1 Credit.
This course is designed to provide practical experience in the athletic training setting and an understanding of evidence-based practice in sports medicine.

AT 635. Research III. 1 Credit.
This is a course designed to guide professional athletic training students through aspects of the research process. Coursework will focus on writing the Methods sections for a research manuscript, writing the results section for a research manuscript and proper data entry techniques for a research project. Based on the nature of this course, students will be required to meet with a research supervisor and collect data for their respective project outside of the time permitted for class. Prerequisites: AT 615 and AT 625.

AT 638. Documentation & Quality Improvement for Healthcare Providers. 3 Credits.
This course will provide an overview of medical terminology, and best practices in medical documentation will be emphasized. Use of documentation strategies to analyze practice trends to identify and implement quality improvement strategies will be stressed. Prerequisites: Students must be admitted into the Master of Science of Athletic Training program to register for this course.

AT 640. Clinical Medicine for Healthcare Providers I. 3 Credits.
This course introduces the healthcare student to the normal and abnormal physiology of different body systems as well as differential diagnoses in common medical conditions. Factors associated with those body systems that influence examination and intervention will be discussed. Also discussed is when referral to other practitioners is recommended and required. A case study approach is employed to enforce critical thinking and to mimic practical application. Prerequisites: AT 691.

AT 641. Clinical Medicine for Healthcare Providers II. 3 Credits.
This course will address health across the lifespan, as well as highlight strategies to mitigate the risk of long-term health complications. This course will additionally identify and describe various modes of imaging techniques and tests used in medical practice for the neurological, musculoskeletal, cardiovascular, and pulmonary systems. Prerequisites: AT 691 and AT 640.

AT 643. Athletic Training Practicum III. 1 Credit.
This course is designed to provide practical experience in the athletic training setting and an understanding of evidence-based practice in sports medicine.

AT 645. Research IV. 1 Credit.
This course is designed to guide professional athletic training students through aspects of the research process. Coursework will focus on writing the discussion section for a research manuscript, writing a research abstract for submission to a conference, developing an oral research presentation for a conference, and creating a poster presentation for a conference. Based on the nature of this course, students will be required to meet with a research supervisor outside of the time permitted for class. Prerequisites: AT 615, AT 625 and AT 635.

AT 647. Interprofessional Clinical I. 1 Credit.
This clinical experience entails interactions with healthcare providers associated with orthopedic specialties and general medical concerns. Prerequisites: Students must be admitted in the Master of Science of Athletic Training program to register for this course.

AT 648. Interprofessional Clinical II. 1 Credit.
This clinical experience entails interaction with healthcare providers associated with sports medicine specialties and general medical concerns. Prerequisites: Students must be admitted into the Master of Science of Athletic Training program to register for this course.

AT 650. Integration of Evidence for Clinical Decision Making in Sports Medicine. 3 Credits.
This course is designed to introduce the graduate student to research processes in the athletic training field. The focus is on understanding and recognizing principles of EBP in athletic training, understanding the elements of evidence, appraising the evidence, and considering the evidence for use in clinical practice.

AT 651. Statistical Techniques for Clinical Decision Making in Sports Medicine. 3 Credits.
This course includes conceptual and computational applications associated with the common statistical techniques relevant to sports medicine clinicians. The intent is to provide students with an introduction to frequently used descriptive and inferential statistical methods for clinical or research purposes in sports medicine. Lectures and laboratory exercises will be utilized to instruct students on using statistics to be intelligent consumers of the research literature. Emphasis will be placed on using statistics to make informed, evidence-based clinical decisions with the goal of enhancing patient care. Prerequisite: AT 650.

AT 652. Pharmacology. 3 Credits.
Introduces principles of drug therapy across the lifespan and their use pertaining to the healthcare of the physically active. An emphasis on the application of knowledge and skills required of the healthcare provider, including indications, contraindications, precautions, interactions, documentation, and governing regulations. Prerequisites: AT 691 or other graduate-level human anatomy course as approved by the instructor.

AT 653. Athletic Training Practicum IV. 1 Credit.
This course is designed to provide practical experience in the athletic training setting and an understanding of evidence-based practice in sports medicine.

AT 655. Teaching Strategies and Assessment. 3 Credits.
This course is designed to provide information related to teaching strategies and techniques along with supervised and mentored teaching experiences within fields applicable to athletic training.

AT 657. Lower Extremity Injury Management Strategies. 3 Credits.
Stresses clinical techniques used in the management and assessment of the lower extremity and spine through utilization of evidence-based practice.

AT 661. Behavioral Health in Sports Medicine. 3 Credits.
The focus of this course is on identification, referral, and coordinated treatment options for patients with mental and behavioral health conditions. Prerequisites: Students must be admitted into the Master of Science of Athletic Training program to register for this course.

AT 664. Ethics in Healthcare. 3 Credits.
This course will provide in-depth coverage of legal and ethical concerns for sports medicine healthcare providers. Identification and analysis of applicable local, state, and federal laws and regulations that are specific to the delivery of healthcare. Prerequisites: Students must be admitted into the Master of Science of Athletic Training program to register for this course.

School of Rehabilitation Sciences 6
AT 666. Athletic Training Practicum I. 1 Credit.
This course is designed to provide practical experience in the athletic training setting and an understanding of evidence-based practice in sports medicine. Prerequisite: AT 603.

AT 667. Athletic Training Practicum II. 1 Credit.
This course is designed to provide practical experience in the athletic training setting and an understanding of evidence-based practice in sports medicine. Prerequisite: AT 604.

AT 668. Athletic Training Practicum III. 2 Credits.
This course is designed to provide practical experience in the athletic training setting and an understanding of evidence-based practice in sports medicine. Prerequisites: AT 605.

AT 669. Athletic Training Practicum IV. 1 Credit.
This course is designed to provide practical experience in the athletic training setting and an understanding of evidence-based practice in sports medicine. Prerequisites: Students must be admitted into the Master of Science of Athletic Training program to register for this course.

AT 670. Athletic Training Research I. 1 Credit.
This course is designed to systematically guide post-professional athletic training students through the research process. Coursework will focus on development of an original research idea, building the theoretical background, and identifying the rationale for a research project. Based on the nature of this course, students will be required to meet with a research supervisor outside of the time permitted for class. Prerequisite: AT 650.

AT 671. Athletic Training Research II. 2 Credits.
This is a course designed to guide post-professional athletic training students through aspects of the research process. Coursework will focus on writing the Methods sections for a research manuscript, writing the results section for a research manuscript and proper data entry techniques for a research project. Based on the nature of this course, students will be required to meet with a research supervisor and collect data for their respective project outside of the time permitted for class. Prerequisites: AT 670.

AT 672. Athletic Training Research III. 3 Credits.
This course is designed to guide post-professional athletic training students through aspects of the research process. Coursework will focus on writing the discussion section for a research manuscript, writing a research abstract for submission to a conference, developing an oral research presentation for a conference, and creating a poster presentation for a conference. Based on the nature of this course, students will be required to meet with a research supervisor outside of the time permitted for class. Prerequisites: AT 671.

AT 673. Healthcare Administration and Policy. 3 Credits.
An overview of administrative and organizational concepts that relate to healthcare entities that provide athletic training services. Facility design, fiscal management, organizational management, and insurance issues will be emphasized. Students will learn about the development and implementation of policies and procedures that occur within an organization that delivers patient care that can impact delivery and quality of care. Pre- or corequisite: Students must be admitted into the Master of Science of Athletic Training program to register for this course.

AT 686. Performance Enhancement in Sports Medicine. 3 Credits.
A study of the principles and techniques utilized in optimizing physical performance and reducing injury through proper and effective strength and conditioning programs. Special emphasis will be placed on current research findings, breakthrough and advanced weight training techniques, and popular conditioning practices. This course will also provide the student with skills in exercise leadership. The student will learn how to lead resistance training, flexibility training, cardiovascular training involving a variety of exercise modes, and group exercise. Prerequisites: AT 612.

AT 687. Contemporary Issues in Athletic Training. 2 Credits.
Seminar-based course that will involve discussion of critical questions and contemporary issues and problems in athletic training/sports medicine. Prerequisites: Students must be admitted into the Master of Science of Athletic Training program to register for this course.

AT 689. Professional Competence Assessment in Athletic Training. 3 Credits.
Knowledge and skills for successful pursuit of athletic training credentials, including Board Of Certification (BOC) examination preparation, employment, and continuing professional competence. Will include self-analysis of patient encounter portfolio and identification of clinical needs. Prerequisites: Students must be admitted into the Master of Science of Athletic Training program to register for this course.

AT 691. Gross Anatomy for the Rehabilitation Sciences. 6 Credits.
This course is designed to provide students in the School of Rehabilitation Sciences an interprofessional education experience that teaches the basic principles and concepts of human gross anatomy so they can apply it to their clinical practice. While multiple body systems will be covered, emphasis will be on the musculoskeletal, articular, nervous, and vascular systems.

AT 697. Independent Study in Athletic Training. 3 Credits.
An overview of clinical reasoning strategies and opportunities for clinical practice implementation will be provided. Students are provided a review of both human anatomy and evidence-based strategies for the delivery of care. Students will learn about the development and implementation of policies and procedures that can impact delivery and quality of care.

AT 711. Analysis of Human Motion for Sports Medicine Clinicians. 3 Credits.
This course includes theories and applications of techniques concerning the analysis of human motion for the sports medicine clinician. The intent of this course is to provide students with an introduction to quantitative analysis of human motion and the concepts and equipment to collect objective quantifiable data for clinical or research purposes.

AT 756. Education in Athletic Training. 4 Credits.
Designed to introduce current concepts of curriculum development, evaluation methods, course construction and testing as related to the athletic training clinical and didactic experience. Designed to introduce the graduate student to aspects of the management of learning and instruction; how learners learn and how teacherscan facilitate their learning as related to the athletic training didactic and clinical experience.

AT 811. Analysis of Human Motion for Sports Medicine Clinicians. 3 Credits.
This course includes theories and applications of techniques concerning the analysis of human motion. It is designed to provide opportunities for the advanced study of motion analysis techniques for the study of human movement. The intent of this course is to provide students with an extensive knowledge concerning quantitative analysis of human motion and the concepts and equipment to collect objective quantifiable data to be used for clinical or research purposes.

AT 998. Master's Graduate Credit. 1 Credit.
This course is a pass/fail course for master's students in their final semester. It may be taken to fulfill the registration requirement necessary for graduation. All master's students are required to be registered for at least one graduate credit hour in the semester of their graduation.

KINESIOLOGY AND REHABILITATION SCIENCES Courses

KRS 820. MATLAB Programming for Kinesiology and Rehabilitation. 3 Credits.
Developments in technology provide researchers with the ability to measure different aspects of human movement many times a second. To make sense of these large and complex datasets researchers are increasingly using engineering software, e.g., MATLAB, to manipulate, process, and analyze data. In this course, students will gain experience importing, plotting, filtering, selecting critical points, and exporting data through the creation of custom functions and scripts within the MATLAB user interface. Prerequisites: admission to the kinesiology and rehabilitation doctoral program or permission of the instructor.
KRS 825. Mixed and Multi Methods in Health Sciences Research. 3 Credits.
This course will cover the writing and refining of research questions, collecting and analyzing qualitative and quantitative data, and choosing the appropriate mixed or multi-method design. The course will also review analyzing, interpreting, and presenting the results of a mixed or multi method design to address the research questions. Students will learn how qualitative and quantitative data can be combined to capture the perspectives of healthcare providers, patients, organizations, or other stakeholders to answer research questions.

KRS 830. Theoretical Models in Kinesiology and Rehabilitation. 3 Credits.
This course will explore some of the theories that are common to kinesiology and rehabilitation research. It will include theories associated with disability, rehabilitation, patient-centered care, motor control, and models for clinical research. These theories will be applied to clinical and research applications relevant to kinesiology and rehabilitation.

KRS 835. Critical Appraisal and Synthesis of Evidence in Kinesiology and Rehabilitation. 3 Credits.
This course will introduce the student to critical appraisal of all forms of research in kinesiology and rehabilitation. The purpose of this course is to further develop the student's competence in conducting and evaluating research. The student will develop the skills necessary to find, critically evaluate, and synthesize the available research in order to answer individual research questions or cultivate a line of research inquiry.

KRS 851. Motor Performance: Rhythmic/Cyclic Tasks. 3 Credits.
This course will examine the coordination of musculoskeletal and neurological systems in performing rhythmic movement tasks such as walking, running, swallowing, singing and feeding. Students will gain experience measuring and interpreting kinematics and kinetics of rhythmic movement tasks integrated with measures of activity and participation and clinical standardized tests.

KRS 852. Motor Performance: Discrete Tasks. 3 Credits.
This course will examine the coordination of musculoskeletal and neurological systems in performing discrete movement tasks such as reaching, grasping, throwing and speaking. Students will gain experience measuring and interpreting kinematics and kinetics of discrete tasks integrated with measures of activity and participation and clinical standardized tests.

KRS 855. Neurosciences of Motor Control. 3 Credits.
This course covers neuroscience with specific regard to the fundamental design, organization and workings of the central nervous system (CNS) in the areas of motor control. The topics cover areas related to the typical development of motor function and changes in motor control throughout the lifespan. This course also assesses motor-control problems that occur as a result of congenital conditions, acquired damage, dysfunction or disease. Pathological conditions such as (but not limited to) stroke, Parkinson's disease, cerebellar disease, and muscle and joint pathologies are examined.

KRS 856. Balance and Postural Control. 3 Credits.
An optimal level of balance and postural control is essential for the performance of many everyday activities. This course is specifically focused on the neural, muscular and biomechanical mechanisms underlying postural control in healthy populations of different ages. In addition, changes that can be observed in postural control following damage, dysfunction and/or disease are also covered. The implications of changes in balance control for falls will be a particular focus. Students in this course learn how to collect and interpret kinematic, kinetic and electrophysiological data associated with the neuromuscular function during posture and balance tasks.

KRS 857. Motor Learning in Rehabilitation. 3 Credits.
This course studies theories and research on the enhancement of motor skills in children and adults, both with and without neurological disorders, as well as the response of nervous and musculoskeletal systems to injuries and different treatments.

KRS 887. Structured Teaching Experience for Kinesiology and Rehabilitation Professions. 1-3 Credits.
This course is designed to provide supervised and mentored teaching experience within fields applicable to kinesiology and rehabilitation.

KRS 895. Special Topics in Kinesiology and Rehabilitation. 3 Credits.
The advanced study of special topics in kinesiology and rehabilitation.

KRS 898. Supervised Research. 1-3 Credits.
This course is designed to provide supervised and mentored research experience within specialized topics applicable to kinesiology and rehabilitation.

KRS 899. Dissertation. 1-12 Credits.
An approved research project written under the supervision of a faculty advisor, in which the student demonstrates the capacity to design and complete independent applied research. The completed project must be approved by the dissertation committee.

OCcupational therapy Courses
OCCT 721. Foundations of Occupational Therapy Practice. 2 Credits.
Students examine the historical and philosophical foundations that have shaped the profession of occupational therapy, its domain, values, and theories, and the foundations of practice with individuals, groups, and populations. Students explore the value of occupation and the role of occupational therapy in promoting health and wellness.

OCCT 749. Occupations I. 6 Credits.
Students analyze the domains and dimensions of occupations, occupational performance skills and patterns, and the structures, functions, and processes of the body and body systems. Students conduct biomechanical assessments and identify essential performance for health and function. Prerequisites: Admission into the Doctor of Occupational Therapy Program.

OCCT 750. Occupations II. 4 Credits.
Students analyze the domains and dimensions of occupations, occupational performance skills and patterns, and the structures, functions, and processes of the body and body systems. Students will examine the structures and function of the central, autonomic and peripheral nervous systems and apply neuroscience principles to clinical conditions that disrupt human engagement and performance. Prerequisites: OCCT 749.

OCCT 751. Occupations III. 3 Credits.
Students analyze the domains and dimensions of occupations, occupational performance skills and patterns, and the structures, functions, and processes of the body and body systems. Students examine human development and occupational patterns across the lifespan and the cultures that enable individuals, groups and populations to optimally participate in occupations that promote health. Prerequisites: OCCT 750.

OCCT 752. Occupation, Health and Wellness Across the Lifespan. 3 Credits.
Students examine human development, occupational patterns, and cultural influences across the lifespan that enable individuals, groups and populations to optimally participate in occupations that promote health. Students apply critical reasoning to consider the impact of disorders on participation and health. Prerequisites: OCCT 721 and OCCT 749.

OCCT 753. Pediatric Habilitation and Rehabilitation: Theory and Practice. 6 Credits.
Students examine occupations and the evaluation and treatment of physical, developmental, psychosocial, and mental health disorders of children and youth. Students design evaluation and intervention plans for clients receiving services in hospital, developmental, and school settings. Prerequisites: OCCT 750, OCCT 752, OCCT 754, and OCCT 756.

OCCT 754. Professional Reasoning and the Occupational Therapy Process. 3 Credits.
Students utilize professional and clinical reasoning to apply the occupational therapy process in client care. Students analyze information that supports team collaboration, clinical decision making, effective client care, and service reporting. Prerequisites: OCCT 721 and OCCT 749.

OCCT 755. Evaluation of Occupational Performance. 3 Credits.
Students explore the evaluation process in occupational therapy practice including observation, interviewing, assessment administration and interpretation, decision making, and reporting. Tests and measurement theory, psychometrics, methods, procedures, and test interpretation are examined. Prerequisites: OCCT 750, OCCT 752, OCCT 754, and OCCT 756.
OCCT 756. Professional Identity and Ethical Formation. 3 Credits.
Students integrate foundational concepts to promote professionalism, ethical reasoning, therapeutic use of self, and lifelong competent and interprofessional practice. Students examine professional identity and the role of professional relationships in occupational therapy practice. Prerequisites: OCCT 721 and OCCT 749.

OCCT 768. Fieldwork I Pediatrics. 1 Credit.
Immersed in a setting that serves the needs of children and youth, students develop a summary of a client’s occupational history and experiences, patterns of daily living, interests, values, needs, and relevant environments and contexts, and examine client-centered outcomes. Prerequisites: OCCT 750, OCCT 752, OCCT 754, and OCCT 756.

OCCT 821. Elements of Research I: Theories of Inquiry and Scholarly Literature. 3 Credits.
Students develop knowledge of the application of statistics for the healthcare professional. Students utilize descriptive statistics, normality, parametric and non-parametric hypothesis testing and simple linear regression to evaluate research and form clinical decisions. Prerequisites: OCCT 721 and OCCT 749.

OCCT 822. Elements of Research II: Using Evidence to Inform Practice. 3 Credits.
Students apply knowledge of practice and research to design effective intervention to meet clients’ needs. Students design clinical questions related to diagnosis, prognosis, and intervention, and critically appraise the research literature on a topic of interest to the practice community. Prerequisites: OCCT 821.

OCCT 841. Education and Learning in Healthcare and Academic Settings. 2 Credits.
Students explore teaching and learning theory, threshold concepts, and signature pedagogy in occupational therapy academic and fieldwork education. Activity analysis and learning strategies to promote health literacy, performance, engagement, and behavioral change are examined. Prerequisites: OCCT 751, OCCT 752, OCCT 754, and OCCT 756.

OCCT 843. Leadership and Advocacy. 2 Credits.
Students will examine approaches to professional development and strategic planning and examine their leadership competencies. They will discuss roles and responsibilities and develop a professional leadership and business plan. Prerequisites: OCCT 751, OCCT 752, OCCT 754, and OCCT 756.

OCCT 845. Health Care Policy and Program Management. 2 Credits.
Factors, forces, and dynamics of the healthcare system and service delivery environment are examined, and students compare the interrelationships of health policy, healthcare, and practice. Students conduct an epidemiological analysis of a challenging healthcare issue. Prerequisites: OCCT 751, OCCT 752, OCCT 754, and OCCT 756.

OCCT 847. Therapeutic Relationships and Client Communication. 2 Credits.
Students examine the elements of developing and maintaining relationships, communicating with clients and members of the team, and resolving interpersonal challenges in the roles of practitioner, practice scholar, and leader/advocate. Prerequisites: OCCT 751, OCCT 752, OCCT 754, and OCCT 756.

OCCT 848. Fieldwork I Adults. 1 Credit.
Students conduct an occupation-based assessment of a client in a clinical or community-based setting that serves the needs of adults with disabilities. Students examine occupational performance and its impact on participation and health and wellness in individuals and groups. Prerequisites: OCCT 751, OCCT 754, and OCCT 755.

OCCT 850. Adult Rehabilitation: Theory and Practice. 6 Credits.
Students examine occupations and the evaluation and treatment of physical, psychosocial, and mental health disorders of adults. Students design evaluation and intervention plans for clients receiving services in acute and sub-acute care, inpatient and outpatient rehabilitation, and community-based settings. Prerequisites: OCCT 751, OCCT 753, and OCCT 755.

OCCT 851. Productive Aging and Rehabilitation: Theory and Practice. 3 Credits.
Students examine the aging process and the evaluation and treatment of physical, developmental, psychosocial, and mental health disorders of older adults. Students design evaluation and intervention plans for clients receiving services in home, community, and skilled nursing settings. Prerequisites: OCCT 751 and OCCT 850.

OCCT 852. Evaluation and Intervention of the Upper Extremity. 3 Credits.
Interventions to optimize functional use of the hand and arm are analyzed. Emphasis on physical agent modalities, orthotics fabrication and application, shoulder, arm, and hand rehabilitation methods, and prosthetics and robotics is explored. Prerequisites: OCCT 751, OCCT 754, and OCCT 755.

OCCT 853. Mental Health Promotion and Recovery: Theory and Practice. 6 Credits.
Students examine the influence of psychosocial factors on occupational performance and participation in individuals, groups, and populations. Use of self as a therapeutic agent and group process skills are emphasized. Prerequisites: OCCT 747 and OCCT 755.

OCCT 854. Technology and Context Adaptation. 2 Credits.
Students apply professional reasoning and activity analysis to meet clients’ occupational needs. Students analyze, grade, modify, and adapt occupations and activities to support occupational performance and participation. Pre- or corequisite: OCCT 751 and OCCT 755.

OCCT 855. Occupation and Activity Analysis. 2 Credits.
Students apply professional reasoning and activity analysis to meet clients’ occupational needs. Students analyze, grade, modify, and adapt occupations and activities to support occupational performance and participation. Pre- or corequisite: OCCT 751, OCCT 850, OCCT 852, and OCCT 854.

OCCT 856. Interprofessional Telehealth Care. 1 Credit.
Students interact with other health professionals to make patient care decisions in the virtual environment. Students examine the process and technologies required to provide interdisciplinary telehealth care, explore the legal, regulatory and reimbursement issues in telehealth care, and deliver healthcare via videoconferencing. Prerequisites: OCCT 751, OCCT 756, and OCCT 845.

OCCT 857. Fieldwork I Psychosocial. 1 Credit.
Students conduct evaluations and design a group-based intervention in a clinical or community-based setting that serves the needs of adults with disabilities. Students examine occupational performance and its impact on participation and health and wellness in individuals and groups. Prerequisites: OCCT 751, OCCT 754, and OCCT 755.

OCCT 858. Elements of Research III: Critical Analysis of Occupational Therapy Practice. 3 Credits.
Students analyze the external and internal criticisms of the profession and examine the evidence addressing practice. Students examine the body of evidence addressing an intervention of interest and complete a systematic review of the evidence. Prerequisites: OCCT 822.

OCCT 859. Elements of Research IV: Scholarship of Practice Approaches and Design. 3 Credits.
Students explore research approaches and design and participate in grant writing and a mentored research project with a faculty member that links theory and practice, facilitates understanding of complex real-world issues, and facilitates knowledge translation. Prerequisites: OCCT 858.

OCCT 868. Fieldwork II A. 6 Credits.
In this twelve-week full-time course, students are provided supervised field experiences applying the occupational therapy process with individuals, groups and/or populations with occupational performance and participation needs. Prerequisites: OCCT 721, OCCT 749, OCCT 750, OCCT 751, OCCT 752, OCCT 753, OCCT 754, OCCT 755, OCCT 756, OCCT 768, OCCT 821, OCCT 822, OCCT 841, OCCT 843, OCCT 845, OCCT 847, OCCT 848, OCCT 850, OCCT 851, OCCT 852, OCCT 853, OCCT 854, OCCT 855, OCCT 856, OCCT 857, OCCT 858, OCCT 859, and OCCT 890.
OCCT 869. Fieldwork II B, 6 Credits.
In this twelve-week full-time course, students are provided supervised field experiences applying the occupational therapy process with individuals, groups and/or populations with occupational performance and participation needs. Prerequisites: OCCT 868.

OCCT 870. Community and Population Health. 1 Credit.
Students examine the role of occupation in health promotion, health education, and prevention of illness. Key concepts of population health, social determinates of health, health promotion, and health behavior will be applied to develop community and population-based approaches. Pre- or corequisite: OCCT 868.

OCCT 871. Professional Development Planning. 1 Credit.
Students examine their knowledge, skills and professional competencies and establish a resume and professional development plan. Students examine the value of supervision and mentorship relationships. Pre- or corequisite: OCCT 869.

OCCT 890. Practice-Scholar Seminar I. 1 Credit.
Students examine the formation of their identity as an occupation-based practice scholar and ethical leader and explore challenges in service delivery systems of significance to occupational therapy’s value and role in health and wellness promotion. Prerequisites: OCCT 756, OCCT 843, and OCCT 847.

OCCT 891. Practice-Scholar Seminar II. 1 Credit.
Students examine innovative approaches to service delivery and discuss their formative capstone experience and their potential role as a practitioner, practice scholar, and leader/advocate in health management and promotion. Prerequisites: OCCT 890.

OCCT 892. Practice-Scholar Seminar III. 1 Credit.
Students examine their capacity for leadership and advocacy for the role of occupation in achieving health and wellbeing of individuals, groups, and populations. Students reflect on their own plans for leadership and advocacy in their upcoming capstone project. Pre- or corequisite: OCCT 891.

OCCT 893. Doctoral Capstone. 7 Credits.
The doctoral capstone project is a 14-week full-time experiential course designed to develop students’ skills role related focus areas. Students implement an individually mentored, increasingly self-directed capstone project as the culminating learning activity of the doctoral program. Prerequisites: OCCT 869 and OCCT 892.

OCCT 894. Practice Scholar Symposium. 2 Credits.
The synthesis of knowledge gained throughout the didactic curriculum, service-learning and field experiences, and in-depth scholarly capstone experience and project is demonstrated through the completion and presentation of a scholarly product. Prerequisites: OCCT 869 and OCCT 892.

PHYSICAL THERAPY Courses

PT 621. Introduction to Physical Therapy. 2 Credits.
An introductory course where students will develop physical therapy clinical skills. Content focuses on patient handling techniques including positioning and draping, bed mobility and transfer training, wheelchair management and gait training with the use of assistive devices. Basic medical terminology, communication, proper body mechanics and safety are also introduced.

PT 627. Theory and Practice I. 4 Credits.
This is the first course in a series that covers physical therapy interventions. The focus is on therapeutic exercise to address an individual's impairments, functional deficits, and well-being. Students will learn where different types of exercises fit into the healing and recovery timeline.

PT 628. Theory and Practice II. 4 Credits.
This course covers the theory, clinical techniques, and the evidence behind using common physical agents in physical therapy, including massage, electrotherapy, thermal and non-thermal modalities. The course also addresses theories of pain management and management of wounds and burns. The format of the class will combine lecture with an intensive laboratory component.

PT 630. Mechanical Properties of Human Tissues in Rehabilitation. 1 Credit.
This one-credit course surrounds the basic structure and function of loose and dense connective tissues, bone, articular cartilage, muscle and nerve. It will address how these tissues function under normal and pathological conditions and the implications for physical therapy. The course will also prepare the student to read and interpret the medical and scientific literature relative to histology and clinical practice.

PT 634. Clinical Sciences I. 3 Credits.
The first class in a series of lectures designed to acquaint the student with the clinical areas related to pathological conditions frequently encountered in physical therapy practice. The course develops an understanding of health models, disease processes and highlights common pathologies by body system central to the care of the patient.

PT 635. Clinical Sciences II. 3 Credits.
This course is designed to acquaint the student with medical aspects and pathological conditions associated with musculoskeletal disorders and surgical procedures involving the musculoskeletal system with a subunit related to cancer.

PT 638. Exercise Physiology. 2 Credits.
This course provides an overview of human physiology as it relates to exercise and the clinical practice of physical therapy. Energy systems and cardiopulmonary physiology will be covered, including electrocardiogram interpretation, as well as resistance training and weight loss.

PT 640. Patient Evaluation I. 3 Credits.
A beginning course in patient examination skills which focuses on history/interpreting skills, vital signs, range of motion, surface anatomy palpation, reflex testing, sensation testing, edema testing, and manual muscle testing.

PT 641. Patient Evaluation II. 3 Credits.
This course builds upon PT 640 with the focus on gait, posture, and musculoskeletal examination/evaluation. Emphasis will be on examination tests and measures, orthopedic special tests, beginning differential diagnosis, and linking evaluation to intervention choices.

PT 655. Clinical Problem Solving I. 2 Credits.
This course integrates material from first-year courses using case scenario role playing, short case vignettes, and standardized patients to facilitate clinical skill competencies and clinical decision making. Also covered are professional topics such as interprofessional collaboration competencies (IPEC), direct access, the ICF model, documentation, and emergency procedures.

PT 656. Clinical Problem Solving II. 3 Credits.
This course is one in the series of clinical problem-solving courses. It focuses on simulated patient experiences and discussion in orthopedic physical therapy. The course will emphasize critical thinking, problem solving and differential diagnosis as well as development and progression of plans of care for orthopedic patients.

PT 665. Biomechanics/Kinesiology I. 3 Credits.
This course will review the musculoskeletal system with emphasis on normal movement of the spine and extremities and the coordinated muscle activity necessary to produce that movement. Students will learn manual muscle testing techniques. The course will also introduce basic concepts such as types of muscle contractions, torque production, and joint reaction forces.

PT 666. Biomechanics/Kinesiology II. 2 Credits.
Students will learn to assess the measurement of motion and forces in normal human movement. Trigonometry will be employed in the problem-solving section of the course as the student assesses forces, vectors and loads.

PT 669. Clinical Experience I. 4 Credits.
This first full-time clinical education experience begins at the end of the first academic year of the program and is designed to permit progressive responsibility in patient evaluation and treatment based upon material learned in classes during the first year. Each student is required to provide one in-service presentation during the clinical learning experience.
PT 695. Topics in Physical Therapy. 1-3 Credits.
Advanced study of selected topics.

PT 792. Neuroscience I. 3 Credits.
Neuroscience I is the first in a series of courses that provide the student with an understanding of integrated neuroanatomy and neurophysiology. Emphasis will be placed upon basic neurophysiologic principles at the cellular level. Prerequisites: BIOL 889.

PT 793. Neuroscience II. 3 Credits.
Neuroscience II is the second course in the sequence. From the foundation of Neuroscience I, the course will build to the progressively higher order of structural functional relationships that control behavior. Prerequisites: PT 792 and BIOL 889.

PT 810. Scientific Inquiry I. 3 Credits.
This is the first in a series of courses that prepare the graduate to critically analyze and use scientific literature to improve clinical decision-making and practice. This course introduces the terminology and strategies of evidence-based practice applied to physical therapy. It emphasizes the basic concepts such as research design, measurement principles and basic statistics.

PT 822. Scientific Inquiry II. 2 Credits.
This course is a continuation of the graduate’s preparation to practice critical analysis skills related to scientific literature. Its emphasis is placed on creating the components of research reports and concepts associated with judging the quality and value of research. Students will complete a systematic review of the literature.

PT 826. Theory and Practice III. 4 Credits.
This is third in a series of four courses in which the student will develop entry-level professional analytical skills in the area of evaluation and treatment with emphasis in the area of orthopedics. This course will expand on the knowledge from spring semester and summer clinical experiences. Teaching methods will include lecture, lab experiences, patient case studies, and demonstrations.

PT 827. Theory and Practice IV. 4 Credits.
This is the fourth in a series of Theory and Practice courses designed to prepare the student to achieve entry-level skills in analysis and management in acute care, the adult client with neurologic dysfunction, and rehabilitation following limb amputation. The course integrates the theoretical aspects of neurologic physical therapy with the development of cognitive and psychomotor clinical skills. Practice laboratories, demonstrations, use of audiovisual aids, lectures, laboratory assignments and projects are used to facilitate learning.

PT 836. Clinical Sciences III. 3 Credits.
This course is designed to emphasize modules in pharmacology, management of chronic pain, functional capacity evaluations, work conditioning, clinical electrophysiology and imaging.

PT 837. Clinical Sciences IV. 3 Credits.
The fourth clinical science course is designed to provide the learner with the foundation to apply clinical science knowledge about an underlying injury or disease to design and implement the appropriate physical therapy care plan for pathologies seen in physical therapy practice. This course focuses on pathologies seen in the acute care environment, pathologies of the nervous system and limb amputations.

PT 842. Patient Evaluation III. 3 Credits.
This course allows students to learn and develop the clinical tools and decision-making skills necessary in the evaluation of patients across the continuum of care with special attention paid to patients with various neurological dysfunctions, medically complex patients in the acute care setting and patients with amputations.

PT 857. Clinical Problem Solving III. 3 Credits.
The course uses simulated patient experiences, case studies and discussion around topics in orthopedic physical therapy. The course will emphasize critical thinking, problem solving and differential diagnosis, as well as the development and progression of plans of care for the orthopedic patient.

PT 858. Clinical Problem Solving IV. 3 Credits.
This is the fourth clinical problem-solving course. It focuses on simulated patient experiences, case studies and discussion of interventions for people with neurologic dysfunction (pediatric and adult), spinal cord injury, and care of patients with medically complex conditions in acute care and intensive care units (ICU).

PT 870. Pediatric Rehabilitation. 3 Credits.
This course is designed to prepare the student to achieve entry-level skills in pathology, analysis and management of the pediatric client with neurologic dysfunction. The course integrates the theoretical aspects of neurologic physical therapy with the development of cognitive and psychomotor clinical skills. Practice laboratories, demonstrations, use of audiovisual aids, lectures, laboratory assignments and projects are used to facilitate learning.

PT 875. Clinical Experience II. 6 Credits.
This second full-time clinical education experience occurs between the second and third academic years of the program and is designed to permit progressive responsibility in patient evaluation and treatment based upon material learned in classes during the first and second years.

PT 876. Clinical Experience III. 7 Credits.
This third full-time clinical education experience occurs following the final academic semester of the program and is designed to promote the development of an autonomous professional through the synthesis and application of clinical problem solving and clinical reasoning skills. Students will achieve entry-level clinical and administrative practice skills.

PT 880. Psychosocial Aspects of Patient Care. 2 Credits.
This course focuses upon the emotional and psychological elements associated with illness and disease. Students will learn the various societal and personal views of sickness and chronic illness as well as the coping mechanism employed by individuals and families when facing disease and terminal illness.

PT 881. Inter-Professional Case Management for Special Populations. 3 Credits.
This hybrid course facilitates interprofessional health promotion development between graduate-level health professions students in addition to PT management of special populations. Health promotion topics include abuse/mandated reporting, adolescent and LGBTQ health promotion, social and environmental issues, spirituality, death and dying, and supportive environments.

PT 882. Practice Management. 3 Credits.
This course is designed to provide the physical therapy student with a review of the principles and practices of managing and administering physical therapy in various clinical settings. The course stresses the principles of management administration in patient care in clinical environments.

PT 883. Professional Issues in Physical Therapy. 2 Credits.
This course is for the identification, analysis, and discussion of issues currently facing the physical therapy profession. The issues focus on the ethical questions as well as the role relationships of physical therapists in the greater health care delivery system of the United States.

PT 884. Clinical Teaching and Professional Communication. 3 Credits.
This course is designed to meet the needs for patient instruction, education within the classroom and clinic, and peer continuing education. The focus of the course is on clear communication in the teaching/learning process.

PT 890. Differential Diagnosis Seminar. 3 Credits.
The focus of this seminar will be on the integration of the foundational and clinical sciences to analyze and solve patient-based clinical problems to arrive at a diagnosis. Students will be expected to explain their reasoning and defend their decisions.

PT 891. Seminar in Scientific Inquiry. 3 Credits.
This course is designed to facilitate critical inquiry, clinical reasoning, cultural respect, and reflective thinking through formulation of a systematic review or case report on a patient from one of the student’s full-time clinical experiences. Emphasis in this course is placed upon integrating the best research evidence with clinical experience and patient values to support decisions that affect patient outcomes and quality of life with application to management, education, and clinical practice.
PT 892. Seminar in Inter-Professional Practice. 1 Credit.
The purpose of this course is to challenge the student to interact with other
health professionals in making patient care decisions.

PT 893. Research Topics. 2 Credits.
Research topics.

PT 895. Topics in Physical Therapy I. 1 Credit.
This course will expose interprofessional students to current trends in health
promotion and illness prevention. Topics will include: Healthy People 2020
objectives, age specific clinical guidelines for health promotion and illness
prevention, theories on behavior and motivation, sociocultural issues, and
screening for a variety of health problems. Measures for promoting and
maintaining health throughout the lifespan will be explored with attention to
current research from the literature.

PT 896. Topics in Physical Therapy II. 1 Credit.
Students will pick from a variety of clinical specialty practice, service
learning or research topics to explore in a small group setting.