The Department of Human Movement Sciences offers programs leading to a Master of Science degree in Park, Recreation & Tourism Studies as well as in Sport Management. We also offer a Master of Science in Education degree with a major in Physical Education and concentrations in Adapted Physical Education, Curriculum & Instruction, Coaching Education, Initial Virginia Licensure in Health & Physical Education and Exercise Science & Wellness. Additionally, we offer a Doctor of Philosophy in Education - Human Movement Sciences concentration with emphasis areas in Applied Kinesiology, Health & Sport Pedagogy, and Sport & Recreation Management. A graduate certificate in Adapted Physical Education is also offered.

Due to changing University requirements, national accreditation standards, and Commonwealth licensure regulations, the programs in the Darden College of Education are under constant revision. Any changes resulting from these factors supersede the program requirements described in the catalog. Students should obtain current program information from their advisors and the Darden College of Education website at http://www.odu.edu/education.

**Graduate Certificate in Adapted Physical Education**

The Graduate Certificate in adapted physical education is designed for individuals who are practicing or planning to teach in school-based physical education settings. This certificate aims to meet the professional advancement needs of at least three populations:

- Existing student populations at ODU interested in acquiring requisite knowledge and skills to effectively teach children with disabilities in physical education. These are expected to include graduate students in each concentration area (i.e., coaching, curriculum & instruction, initial licensure, adapted physical education) of physical education, as well as others in different education-related areas. Graduate degree seeking students will be able to obtain the Certificate and degree simultaneously using the available four elective courses in their degree program.
- Currently practicing physical education teachers looking to further enhance their knowledge and skills in teaching students with disabilities in their classes.
- Non-degree seeking students seeking to enhance their employability in the physical education/adapted physical education job acquisition search.

**Admission**

Degree seeking graduate-level students admitted to the certificate program must meet ODU requirements for graduate admission: an earned baccalaureate degree from a regionally-accredited institution or an equivalent degree from a foreign institution. Those whose native language is not English must submit a minimum score of 230 on the computer-based TOEFL or 80 on the TOEFL iBT.

Individuals not seeking graduate-level degrees admitted to the certificate program must have a completed baccalaureate degree (or equivalent).

**Curriculum Requirements**

The certificate requires four (4) three-hour courses for a total of twelve (12) credits. This includes three core courses and one elective course, as follows:

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPE 504</td>
<td></td>
</tr>
<tr>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Elective Courses (Select 3 credits from the following)</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPE 704</td>
<td></td>
</tr>
<tr>
<td>HPE 720</td>
<td></td>
</tr>
<tr>
<td>HPE 745</td>
<td></td>
</tr>
</tbody>
</table>

**Master of Science in Education – Physical Education**

Departmental Graduate Program Director
Student Recreation Center
757-683-3351

Within each concentration, there are thesis and non-thesis options.

**Adapted Physical Education**

Xihe Zhu, Ph.D. - Graduate Coordinator
2010 Student Recreation Center
757-683-3345

**Admission and Entrance Requirements**

Students applying for admission with regular status must have:

1. a bachelor’s degree from an accredited institution with a cumulative undergraduate grade point average (GPA) of 2.80 and a GPA of 3.00 in the undergraduate major courses;
2. a score of at least 291 (900 by former scoring standard) in the quantitative and verbal portions of the Graduate Record Examination (GRE). GRE scores are required for consideration of admission for all candidates. (In some circumstances, students who have either a low GPA or a low GRE score may be considered for admission with provisional status); and
3. demonstrated computer literacy.

**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. achieve an overall GPA of 3.0 and a GPA of 3.0 in the major courses;
2. demonstrate writing proficiency;
3. satisfy all course competencies;
4. pass a comprehensive examination when required;
5. complete an internship, research project, or thesis as a culminating experience;
6. hold an exit interview with the program coordinator; and
7. file the necessary paperwork for graduation.

**Curriculum**

<table>
<thead>
<tr>
<th>Research Core</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOUN 611</td>
<td></td>
</tr>
<tr>
<td>or FOUN 612</td>
<td></td>
</tr>
<tr>
<td>FOUN 722</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPE 504</td>
<td></td>
</tr>
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<td>HPE 704</td>
<td></td>
</tr>
<tr>
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<td></td>
</tr>
<tr>
<td>HPE 745</td>
<td></td>
</tr>
</tbody>
</table>
Students applying for admission with regular status must have:

1. a bachelor's degree from an accredited institution with a cumulative undergraduate grade point average (GPA) of 2.80 and a GPA of 3.00 in the undergraduate major courses;
2. a score of at least 291 (900 by former scoring standard) in the quantitative and verbal portions of the Graduate Record Examination (GRE) - GRE scores are required for consideration of admission for all candidates. (In some circumstances, students who have either a low GPA or a low GRE score may be considered for admission with provisional status); and
3. demonstrated computer literacy.

**Continuance and Exit Requirements**

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

1. achieve an overall GPA of 3.0 and a GPA of 3.0 in the major courses;
2. demonstrate writing proficiency;
3. satisfy all course competencies;
4. pass a comprehensive examination when required;
5. complete an internship, research project, or thesis as a culminating experience;
6. hold an exit interview with the program coordinator; and
7. file the necessary paperwork for graduation.

**Curriculum**

**Core Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOUN 611</td>
<td>3</td>
</tr>
<tr>
<td>or FOUN 612</td>
<td>3</td>
</tr>
<tr>
<td>FOUN 722</td>
<td>3</td>
</tr>
</tbody>
</table>

**Research Core**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOUN 611</td>
<td>3</td>
</tr>
<tr>
<td>or FOUN 612</td>
<td>3</td>
</tr>
<tr>
<td>FOUN 722</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPE 718</td>
<td>3</td>
</tr>
<tr>
<td>HPE 719</td>
<td>3</td>
</tr>
</tbody>
</table>

**Thesis**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMS 698</td>
<td>6</td>
</tr>
<tr>
<td>HMS 699</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Hours: 33

* One SPED course is strongly recommended to meet CAPE certification requirements.

**Coaching Education Concentration**

This emphasis will offer additional theories and knowledge in the coaching profession providing advanced skills to those individuals pursuing a coaching career. The courses selected for the Coaching Education emphasis area will meet accreditation standards, certify students as athletic coaches, and provide valuable knowledge and skills.

**Admission and Entrance Requirements**

Students applying for admission with regular status must have:

1. a bachelor's degree from an accredited institution with a cumulative undergraduate grade point average (GPA) of 2.80 and a GPA of 3.00 in the undergraduate major courses;
2. a score of at least 291 (900 by former scoring standard) in the quantitative and verbal portions of the Graduate Record Examination (GRE) - GRE scores are required for consideration of admission for all candidates; (In some circumstances, students who have either a low GPA or a low GRE score may be considered for admission with provisional status); and
3. demonstrated computer literacy.

**Continuance and Exit Requirements**

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

1. achieve an overall GPA of 3.0 and a GPA of 3.0 in the major courses;
2. demonstrate writing proficiency;
3. satisfy all course competencies;
4. pass a comprehensive examination when required;
5. complete an internship, research project, or thesis as a culminating experience;
6. hold an exit interview with the program coordinator; and
7. file the necessary paperwork for graduation and teacher licensure.

**Prerequisites**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 250</td>
<td>4</td>
</tr>
<tr>
<td>EXSC 322</td>
<td>4</td>
</tr>
<tr>
<td>HPE 409</td>
<td>4</td>
</tr>
</tbody>
</table>

Note: Students who do not have equivalent coursework or appropriate educational experiences must complete these prerequisite courses.
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. achieve and maintain an overall GPA of 3.0 and a GPA of 3.0 in the major courses;
2. demonstrate writing proficiency;
3. satisfy all course competencies;
4. pass a comprehensive examination when required;
5. complete an internship, research project, or thesis as a culminating experience;
6. hold an exit interview with the program coordinator; and
7. file the necessary paperwork for graduation and teacher licensure.

Additional Information and Requirements
• Passing score on PRAXIS II Test of Content Knowledge must be on file in the Teacher Education Services office before the teacher candidate internship can begin.
• Passing Scores on the VCLA will be required by the Virginia DOE for Licensure.
• With approval from the graduate advisor, the licensure requirements may be fulfilled by equivalent undergraduate courses where applicable.
** Background check clearance required for teaching licensure admission: https://www.odu.edu/success/academic/teacher-education/placement/background-checks.

Curriculum
Specific requirements for the program are as follows (33 total graduate credits with additional credits up to 54 as needed to satisfy Virginia licensure requirements):

<table>
<thead>
<tr>
<th>Prerequisites for VA Teaching Licensure</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 105N</td>
</tr>
<tr>
<td>BIOL 250</td>
</tr>
<tr>
<td>EXSC 322</td>
</tr>
<tr>
<td>HPE 200</td>
</tr>
<tr>
<td>HPE 220</td>
</tr>
<tr>
<td>HPE 222</td>
</tr>
<tr>
<td>HPE 224</td>
</tr>
<tr>
<td>HPE 324</td>
</tr>
<tr>
<td>HPE 480</td>
</tr>
<tr>
<td>TLED 408</td>
</tr>
<tr>
<td>HPE 369</td>
</tr>
</tbody>
</table>

*Field Observation and/or teaching experience required

Required Courses: 33 credit hours

<table>
<thead>
<tr>
<th>Master Level Core Course Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPE 719</td>
</tr>
<tr>
<td>HPE 720</td>
</tr>
<tr>
<td>HPE 740</td>
</tr>
<tr>
<td>HPE 745</td>
</tr>
</tbody>
</table>

VA Teaching Licensure Requirements
| HPE 502 | Methods and Materials in Health Education |
| HPE 504 | Adapted Physical Education |
| HPE 509 | Exercise Physiology |
| HPE 530 | Nutrition and Fitness Education |

Research Foundation - 3 credits

Initial Virginia Licensure in Health & Physical Education**
Xihe Zhu, Ph.D. - Graduate Coordinator
2010 Student Recreation Center
757-683-3545
X2zhu@odu.edu

Admission and Entrance Requirements
Students applying for admission with regular status must have:

1. a bachelor's degree from an accredited institution with a cumulative undergraduate grade point average (GPA) of 2.80 and a GPA of 3.00 in the undergraduate major courses;
2. a score of at least 291 (900 by former scoring standard) in the quantitative and verbal portions of the Graduate Record Examination (GRE) - GRE scores are required for consideration of admission for all candidates;
3. VCLA Composite: >470 and Praxis Core Math: >150; Or Qualifying SAT/ACT scores; Or Praxis Core (Reading >156, Writing > 162, and Math >150); Composite Praxis I score (>532 prior to 12/31/13); and
4. demonstrated computer literacy.
(In some circumstances, students who have either a low GPA or a low GRE score may be considered for admission with provisional status.)
Curriculum

Graduate Continuance Policy for the University. Students completing the Continuance and Exit Requirements are considered. Prerequisites include two semesters of anatomy and physiology, one required for consideration of admittance. Additionally, students must be computer literate. Students who have either a low GPA or a low GRE score may be considered for admission on provisional status. GRE scores are required for consideration of admittance. Students who apply for admission with regular status must have:

- A bachelor’s degree from an accredited institution with a cumulative undergraduate GPA of 2.8 and a GPA of 3.0 in the undergraduate major courses; and
- A baccalaureate degree from a regionally-accredited institution or an equivalent degree from a foreign institution

Applicants for the M.S. in Park, Recreation and Tourism Studies are required to submit credentials to Old Dominion University for consideration. The criteria for acceptance include:

- A completed online application via www.odu.edu/admission/graduate
- A baccalaureate degree from a regionally-accredited institution or an equivalent degree from a foreign institution
- An overall 2.8 (on a 4.0 scale) or higher cumulative GPA in the major;
- A GPA of 3.0 or higher in the undergraduate major courses
- A GPA of 3.0 or higher in the undergraduate major courses
- A Test of English as a Foreign Language (TOEFL) score of 550 on the paper-based test (or 79-80 on the iBT) for non-native English speakers

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:

- have an overall grade point average of 3.0;
- have a grade point average of 3.0 in the major;
- demonstrate writing proficiency;
- pass a comprehensive examination;
- complete an internship or research project/thesis;
- have an exit interview with the program director; and
- file the necessary paperwork for graduation.

Curriculum

Exercise Science & Wellness Concentration

David Swain, Ph.D. - Graduate Coordinator
2024 Student Recreation Center
757-683-6028
dswain@odu.edu

This concentration is designed for the student who desires to pursue advanced study in the science of exercise and health promotion. The course work will help to strengthen the background of those individuals already involved in conducting fitness programs for various age groups or to prepare individuals for careers in other health-related fields that utilize exercise as preventive medicine.

Admission and Entrance Requirements

Students applying for admission with regular status must have:

1. a bachelor’s degree from an accredited institution with a cumulative undergraduate GPA of 2.8 and a GPA of 3.0 in the undergraduate major courses; and
2. have a score of at least 291 (900 by former scoring standard) between quantitative and verbal on the Graduate Record Examination (GRE).

Students who have either a low GPA or a low GRE score may be considered for admission to provisional status. GRE scores are required for consideration of admittance. Additionally, students must be computer literate. Prerequisites include two semesters of anatomy and physiology, one semester of exercise physiology, and one semester of biomechanics.

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 grade point average of 3.0 in the major;
3. demonstrate writing proficiency;
4. pass a comprehensive examination;
5. complete an internship or research project/thesis;
6. have an exit interview with the program director; and
7. file the necessary paperwork for graduation.

Curriculum

Core Courses

- EXSC 528 Exercise Prescription for Chronic Disease
- EXSC 630 Exercise Physiology
- EXSC 642 Clinical Exercise Testing and Prescription
- EXSC 661 Nutrition for Sports and Health
- EXSC 727 Advanced Biomechanics
- EXSC 730 Advanced Cardiovascular Exercise Physiology

Research Core

- FOUN 612 Applied Research Methods in Education

Internship Requirements - 6-9 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPE 668</td>
<td>Internship in Health &amp; Physical Education</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
</tr>
<tr>
<td>HPE 636</td>
<td>Research Problems in Health &amp; Physical Education</td>
</tr>
<tr>
<td>HPE 721</td>
<td>Motivational Issues in Sports</td>
</tr>
</tbody>
</table>

Total Hours: 39-42

Exercise Science & Wellness Concentration

Non-Thesis Option - Research Problem

- EXSC 636 Research Problems in Exercise Science
- Electives (6 credit hours)

Non-Thesis Option - Internship

- EXSC 668 Internship in Exercise Science
- Electives (6 credits)

Supportive electives may be chosen from a restricted list of courses offered through the Department of Human Movement Sciences (EXSC, HPE, PRTS, SMGT) or other areas of relevant study, in consultation with the student’s primary graduate advisor.

Total Hours: 36

Master of Science in Park, Recreation & Tourism Studies

Eddie Hill, Ph.D. - Program Coordinator
2014 Student Recreation Center
757-683-4881

This program is designed to prepare students and practitioners for advanced study in the concepts, theories, research, management, and administration of park, recreation and tourism services. Course work (30 credit hours) is designed to prepare the students for the “bigger picture” which is often required of middle and top management in the recreation and tourism industry, including positions in public agencies, nonprofit organizations, and private businesses. The program combines social science and management concepts and theories with applied problem-solving techniques specific to parks, recreation and tourism.

Admission and Entrance Requirements

Applicants for the M.S. in Park, Recreation and Tourism Studies are required to submit credentials to Old Dominion University for consideration. The criteria for acceptance include:

- A completed online application via www.odu.edu/admission/graduate
- A baccalaureate degree from a regionally-accredited institution or an equivalent degree from a foreign institution
- An overall 2.8 (on a 4.0 scale) or higher cumulative GPA in the undergraduate degree *
- A GPA of 3.0 or higher in the undergraduate major courses
- A combined GRE score of 291 or higher (verbal and quantitative sections) *
- Three letters of recommendation (from former faculty or employers)
- An essay describing the applicant’s educational and career goals
- Current copy of resume
- A Test of English as a Foreign Language (TOEFL) score of 550 on the paper-based test (or 79-80 on the iBT) for non-native English speakers

* Students who have a low GPA or a low GRE score may be considered for admission on provisional status.

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. a grade point average of 3.0 in the major;
3. demonstrate writing proficiency;
4. satisfy all course competencies;
5. pass an oral thesis proposal defense (thesis option only);
6. pass a comprehensive examination (research project option only);
7. complete a thesis/research project;
8. have an exit interview with the program director; and
9. file the necessary paperwork for graduation.

**Curriculum**

Five required courses focus on areas in which the faculty believe are most important for each park, recreation and tourism graduate to be competent in. The choice of courses was instituted to allow for some personalization of the degree, as course selection will vary depending on whether the graduate is in a private or public agency. Two research courses are required of all students, including one in applied statistics and the other in research methods. Lastly, students must choose from one of two capstone options — a 6-credit hour thesis and one 3-credit elective (Thesis Option), or a 3-credit hour research project and 6 credits of additional elective coursework (Research Project Option). The thesis option requires a successful defense of the thesis prospectus. The non-thesis (research project) option requires successful completion of a comprehensive examination covering the five required PRTS core courses. The specific courses in the curriculum are as follows.

**Park, Recreation & Tourism Studies Core: 15 credit hours required**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRTS 650</td>
<td>Contemporary Issues in Park, Recreation and Tourism Studies</td>
</tr>
<tr>
<td>PRTS 710</td>
<td>Tourist Behavior and Consumption</td>
</tr>
<tr>
<td>PRTS 720</td>
<td>Advanced Leisure Theories and their Applications</td>
</tr>
<tr>
<td>PRTS 740</td>
<td>Recreation Management for Administrators</td>
</tr>
<tr>
<td>PRTS 770</td>
<td>Grant Writing for Parks and Recreation</td>
</tr>
</tbody>
</table>

**Research Core: 6 credit hours required**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOUN 612</td>
<td>Applied Research Methods in Education</td>
</tr>
<tr>
<td>FOUN 722</td>
<td>Introduction to Applied Statistics and Data Analysis</td>
</tr>
</tbody>
</table>

**Capstone Experience: 6 credit hours required – Choose 1 of 2 Options**

- **Thesis Option**
  - PRTS 698 Thesis Research in Park, Recreation and Tourism Studies
  - PRTS 699 Thesis in Park, Recreation and Tourism Studies

- **Research Project Option**
  - PRTS 636 Research Problems in Park, Recreation and Tourism Studies
  + Elective (3 credits) + Denotes an additional requirement of comprehensive exam based on core course requirements.

**Electives: 3 credit hours**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRTS 619</td>
<td>Strategic Marketing in Parks, Recreation and Tourism</td>
</tr>
<tr>
<td>PRTS 697</td>
<td>Independent Study in Park, Recreation and Tourism Studies</td>
</tr>
<tr>
<td>PRTS 730</td>
<td>Park Management for Professionals</td>
</tr>
<tr>
<td>PRTS 760</td>
<td>Advanced Sustainable Tourism Management</td>
</tr>
<tr>
<td>PRTS 780</td>
<td>Youth Development in Recreation</td>
</tr>
<tr>
<td>PADM 671</td>
<td>Public Budgeting and Financial Management</td>
</tr>
<tr>
<td>PADM 711</td>
<td>Tools of Government</td>
</tr>
<tr>
<td>PADM 714</td>
<td>Public-Private Partnerships</td>
</tr>
<tr>
<td>PADM 715</td>
<td>Management of Nonprofit Organizations</td>
</tr>
<tr>
<td>PADM 745</td>
<td>Managing Development and Change in Organizations</td>
</tr>
</tbody>
</table>

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**Master of Science in Sport Management**

Lamar Reams, Ph.D. - Graduate Coordinator
2015 Student Recreation Center
757-683-3905

This program is designed to prepare students for leadership roles within the sport industry. Students are provided with theoretical and practical knowledge to face the opportunities and challenges associated with sport business careers. The curriculum is consistent with current principles and practices of academic and sport marketplace standards.

**Admissions Requirements:**

Applicants for the graduate sport management program may submit credentials to Old Dominion University for consideration. The criteria for acceptance include:

- A completed online application via www.odu.edu/admission/graduate
- A baccalaureate degree from a regionally-accredited institution or an equivalent degree from a foreign institution
- 2.8 cumulative GPA or higher (on a 4.0 scale)
- GRE score of 291 or higher (verbal and quantitative sections) or a score of 400 or higher on either the GMAT or MAT*
- Three letters of recommendation (from former faculty or employers)
- Current copy of resume
- Transcripts from all prior postsecondary institutions
- Test of English as a Foreign Language (TOEFL) score of 550 on the paper-based test (or 79-80 on the iBT) for non-native English speakers

*Students who have a low GPA or a low GRE score may be considered for admission to provisional status.

*The program admissions committee will consider waiving the GRE/GMAT/MAT requirement for applicants with significant sport (or sport-related) industry experience. Applicants should contact the graduate program coordinator to indicate interest in being considered for a waiver.

**Sport Management Core Courses: 12 credit hours required**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMGT 652</td>
<td>Facility Management for Sport, Recreation and Entertainment</td>
</tr>
<tr>
<td>SMGT 653</td>
<td>Sponsorship and Event Planning</td>
</tr>
<tr>
<td>SMGT 738</td>
<td>Sport Finance</td>
</tr>
<tr>
<td>SMGT 760</td>
<td>Sport Law</td>
</tr>
</tbody>
</table>

**Research Core: 6 credit hours required**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOUN 611</td>
<td>Introduction to Research Methods in Education</td>
</tr>
<tr>
<td>or FOUN 612</td>
<td>Applied Research Methods in Education</td>
</tr>
<tr>
<td>FOUN 722</td>
<td>Introduction to Applied Statistics and Data Analysis</td>
</tr>
</tbody>
</table>

**Capstone Experience: 6 credit hours required – Choose 1 of 3 Options**

- **Thesis Option**
  - SMGT 698 Thesis Research in Sport Management
  - SMGT 699 Thesis in Sport Management

- **Research Project Option**
  - SMGT 636 Research Problems in Sport Management
  + Elective (3 credits)
Individuals interested in applying for the doctoral program with a concentration in Human Movement Sciences must submit the following:

- An application to the University. Contact the Office of Graduate Admissions for applications. Applications for graduate study can be completed online or submitted to the Office of Graduate Admissions (757-683-3685). Apply for the Ph.D. Human Movement Sciences Concentration.
- Official transcripts of all undergraduate and graduate courses and degrees completed. To be considered for the program, applicants must have completed a Bachelor's and a Master's degree from regionally accredited colleges/universities. At least one degree should be in a related discipline to the emphasis area. A minimum GPA of 3.5 (on a 4.0 scale) for the Master's degree is required.
- Two writing samples. The first writing sample should be a research-based document that includes citations and a list of references. This could be a submitted manuscript or published article, a summary of your thesis, or a research paper from a graduate course. The second writing sample should be a personal statement that explains your qualifications, professional and career goals, and reasons for seeking the Ph.D. In this second essay, you must also identify the potential professor(s) at ODU with whom you share common research interests.
- A current copy of your resume or Curriculum Vitae.
- Three letters of recommendation from professional sources qualified to assess your suitability for study at the doctoral level. One letter of recommendation should be from a graduate advisor or faculty member and one should be from a current or former supervisor.
- Official GRE scores taken within the last 5 years that indicate a total score of at least 297 (1000 by former scoring standard) for both the verbal reasoning and quantitative reasoning sections and a minimum of 4.5 on the analytical writing component. While these scores are recommended, other portions of the total application package will be considered. The Sport and Recreation Management emphasis area will also accept GMAT scores of 470 or higher.
- Applicants whose native language is not English must also submit current scores for the Test of English as a Foreign Language (TOEFL) of at least 550.

After successful advancement to candidacy, all doctoral students are required to be registered for at least one graduate credit hour each term (fall, spring, and summer) until the degree is completed, including the semester in which they graduate. Failure to comply with this requirement will result in charges to the student’s account for one graduate credit hour plus required fees for each semester after passing the candidacy examination. Students are not eligible for graduation until all charges are paid.

### Continuance and Exit Requirements

Students completing the program of study must:

- Have an overall grade point average of 3.0 or higher
- Satisfy all course competencies
- Pass comprehensive examinations
- Complete a dissertation
- Have an exit interview with the program director
- File the necessary paperwork for graduation

### Applied Kinesiology Emphasis Curriculum

Patrick Wilson, Ph.D.
2003A Student Recreation Center
757-683-4783

Requirements for the emphasis are as follows (minimum of 60 credits):

#### Prerequisite Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOUN 612</td>
<td>Applied Research Methods in Education</td>
</tr>
<tr>
<td>FOUN 722</td>
<td>Introduction to Applied Statistics and Data Analysis</td>
</tr>
</tbody>
</table>

#### Research Core

<table>
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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>FOUN 812</td>
<td>Research Design and Analysis</td>
</tr>
<tr>
<td>FOUN 814</td>
<td>Qualitative Research Design in Education</td>
</tr>
<tr>
<td>FOUN 822</td>
<td>Applied Linear Models in Educational Research</td>
</tr>
<tr>
<td>FOUN 823</td>
<td>Analysis of Variance Applied to Educational Research</td>
</tr>
</tbody>
</table>

#### Professional Preparation

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMS 890</td>
<td>Doctoral Studies Seminar</td>
</tr>
<tr>
<td>FOUN 881</td>
<td>Dissertation Seminar</td>
</tr>
</tbody>
</table>

Department of Human Movement Sciences
**Health & Sport Pedagogy Emphasis Curriculum**

Xihe Zhu, Ph.D.
2010 Student Recreation Center
757-683-3545

Requirements for the emphasis are as follows (minimum of 60 credits):

**Research Core (12 credits minimum, required*)**
- FOUN 812 Research Design and Analysis *
- FOUN 814 Qualitative Research Design in Education *
- FOUN 822 Applied Linear Models in Educational Research *
- FOUN 823 Analysis of Variance Applied to Educational Research *
- FOUN 815 Advanced Qualitative Research *
- FOUN 825 Applied Multilevel Modeling in Educational Research *
- FOUN 826 Applied Structural Equation Modeling in Educational Research *
- PSYC 847 Multivariate Methods for the Social/Behavioral Sciences

**Professional Preparation (9 credits minimum, required*)**
- HMS 890 Doctoral Studies Seminar *
- FOUN 881 Dissertation Seminar *
- TLCI 803 Perspectives and Inquiry in Curriculum and Instruction *
- TLCI 804 Instruction Theories and Models *
- FOUN 830 Theories of Learning and Instruction *

**Sport and Recreation Management Emphasis (18 credits minimum)**
- PRTS 820 Advanced Leisure Theories and their Applications
- PRTS 880 Youth Development in Recreation
- SMGT 838 Sport Finance
- SMGT 846 Strategic Marketing in Sport
- SMGT 850 Ethics in Sport Management
- SMGT 855 Social Issues in Sport

**Electives (9 credits minimum) *

- MGMT 835 Organization Theory
- MGMT 836 Strategic Entrepreneurship Seminar
- MKTG 802 Seminar in Marketing Concepts and Issues
- MKTG 803 Seminar in Consumer Behavior
- PAUP 801 Theories of Public Policy
- PAUP 804 Policy and Program Evaluation
- PADM 830 Theories of Conflict Resolution and Problem Solving
- PADM 845 Managing Development and Change in Organizations

Note: List of electives is not comprehensive. Prior approval from graduate advisor is required for other possible electives.

**Dissertation Capstone Courses**
- HMS 899 Dissertation

Total Hours: 60

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**Sport & Recreation Management Emphasis Curriculum**

Eddie Hill, Ph.D.
2014 Student Recreation Center
757-683-4881

Requirements for the emphasis are as follows (minimum of 60 credits):

**Prerequisite Courses**
- FOUN 612 Applied Research Methods in Education
- FOUN 722 Introduction to Applied Statistics and Data Analysis

**Research Core**
- FOUN 812 Research Design and Analysis
- FOUN 814 Qualitative Research Design in Education
- FOUN 822 Applied Linear Models in Educational Research
- FOUN 823 Analysis of Variance Applied to Educational Research

**Professional Preparation (9 credits minimum)**
- HMS 890 Doctoral Studies Seminar
- FOUN 881 Dissertation Seminar
- PSYC 833 Grant and Manuscript Writing
- or TLCI 804 Instruction Theories and Models

**Advisor Approved Electives (6 credits minimum)**

Other electives may be approved. Consult with your advisor.
- TLCI 874 Constructivist Teaching
- PSYC 845 Psychometric Theory

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**TLCI 803** Perspectives and Inquiry in Curriculum and Instruction
**TLCI 804** Instruction Theories and Models
**Applied Kinesiology Emphasis**
- EXSC 827 Advanced Biomechanics
- EXSC 830 Advanced Cardiovascular Exercise Physiology
- EXSC 838 Exercise Endocrinology
- HMS 897 Independent Study in Human Movement Sciences

**Eletives **
- BME 821 Mathematical Modeling in Physiology I
- BME 822 Mathematical Modeling in Physiology II
- BIOL 816 Endocrinology
- BIOL 824 Neuromuscular Physiology
- BIOL 889 Gross Anatomy

**Dissertation Capstone Courses**
- HMS 899 Dissertation

Total Hours: 60

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**Electives (9 credits minimum) *

- MGMT 835 Organization Theory
- MGMT 836 Strategic Entrepreneurship Seminar
- MKTG 802 Seminar in Marketing Concepts and Issues
- MKTG 803 Seminar in Consumer Behavior
- PAUP 801 Theories of Public Policy
- PAUP 804 Policy and Program Evaluation
- PADM 830 Theories of Conflict Resolution and Problem Solving
- PADM 845 Managing Development and Change in Organizations

Note: List of electives is not comprehensive. Prior approval from graduate advisor is required for other possible electives.

**Dissertation Capstone Courses**
- HMS 899 Dissertation

Total Hours: 60

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A master's degree in an appropriate field related to this concentration is required for regular admission to the Ph.D. in human movement science.

Students who do not have equivalent coursework or appropriate educational experiences must complete these prerequisite courses.

**Substitute other courses by permission of advisor.**

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**Health & Sport Pedagogy Emphasis Curriculum**

Xihe Zhu, Ph.D.
2010 Student Recreation Center
757-683-3545

Requirements for the emphasis are as follows (minimum of 60 credits):

**Research Core (12 credits minimum, required*)**
- FOUN 812 Research Design and Analysis *
- FOUN 814 Qualitative Research Design in Education *
- FOUN 822 Applied Linear Models in Educational Research *
- FOUN 823 Analysis of Variance Applied to Educational Research *
- FOUN 815 Advanced Qualitative Research *
- FOUN 825 Applied Multilevel Modeling in Educational Research *
- FOUN 826 Applied Structural Equation Modeling in Educational Research *
- PSYC 847 Multivariate Methods for the Social/Behavioral Sciences

**Professional Preparation (9 credits minimum, required*)**
- HMS 890 Doctoral Studies Seminar *
- FOUN 881 Dissertation Seminar *
- PSYC 833 Grant and Manuscript Writing
- or TLCI 804 Instruction Theories and Models

**Advisor Approved Electives (6 credits minimum)**

Other electives may be approved. Consult with your advisor.
- TLCI 874 Constructivist Teaching
- PSYC 845 Psychometric Theory

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A master's degree in an appropriate field related to this concentration is required for regular admission to the Ph.D. in human movement science.

Students who do not have equivalent coursework or appropriate educational experiences must complete these prerequisite courses.

**Substitute other courses by permission of advisor.**

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A master's degree in an appropriate field related to this concentration is required for regular admission to the Ph.D. in human movement science.

Students who do not have equivalent coursework or appropriate educational experiences must complete these prerequisite courses.

**Substitute other courses by permission of advisor.**
EXSC 630. Nutrition for Sports and Health. 3 Credits.
This course is an in-depth analysis of the role of nutrition in health and human physical and athletic performance. General areas covered include the role of the six major classes of nutrients in health and sport, physiologic and metabolic interrelationships, malnutrition, nutrition in growing and aging, and diet and nutrition in the prevention of disease.

EXSC 658. Internship in Exercise Science. 1-6 Credits.
Designed to provide detailed practical experience (400 clock hours) in an exercise science field setting. Prerequisite: completion of 75% of graduate work.

EXSC 695. Topics in Exercise Science. 1-3 Credits.
Selected topic courses in exercise science and wellness.

EXSC 697. Independent Study in Exercise Science. 1-3 Credits.
Investigations in exercise science. Problems approved in advance are investigated under the supervision of the faculty advisor.

EXSC 698. Thesis Research in Exercise Science. 3-6 Credits.
Master's level thesis research in topics related to Exercise Science. Prerequisite: permission of the advisor and committee.

EXSC 699. Thesis in Exercise Science. 3-6 Credits.
Preparation and writing of the master's thesis. Prerequisite: Permission of the advisor and committee.

EXSC 727. Advanced Biomechanics. 3 Credits.
Study of the relationships among mechanics, energetics and control of human movement. Emphasis will be placed on the application of mechanical concepts in biomechanics research. Prerequisite: EXSC 417W or EXSC 517.

EXSC 730. Advanced Cardiovascular Exercise Physiology. 3 Credits.
A study of the physiology and pathophysiology of the cardiovascular system. Effects of exercise on the system will also be discussed. Prerequisite: EXSC 630.

EXSC 738. Exercise Endocrinology. 3 Credits.
This course will focus on the endocrine responses to acute and chronic exercise and how neuroendocrine function relates to health and athletic performance. Emphasis is placed on the role of the endocrine system in regulating substrate utilization during exercise, energy balance, skeletal muscle plasticity, reproductive function, and the aging process. Prerequisite: EXSC 630.

EXSC 827. Advanced Biomechanics. 3 Credits.
Study of the relationships among mechanics, energetics and control of human movement. Emphasis will be placed on the application of mechanical concepts in biomechanics research. Prerequisite: EXSC 417W or EXSC 517.

EXSC 830. Advanced Cardiovascular Exercise Physiology. 3 Credits.
A study of the physiology and pathophysiology of the cardiovascular system. Effects of exercise on the system will also be discussed. Prerequisite: EXSC 630.

EXSC 838. Exercise Endocrinology. 3 Credits.
This course will focus on the endocrine responses to acute and chronic exercise and how neuroendocrine function relates to health and athletic performance. Emphasis is placed on the role of the endocrine system in regulating substrate utilization during exercise, energy balance, skeletal muscle plasticity, reproductive function, and the aging process. Prerequisite: EXSC 630.

EXSC 999. Doctoral Graduate Credit. 1 Credit.
This course is a pass/fail course doctoral students may take to maintain active status after successfully passing the candidacy examination. All doctoral students are required to be registered for at least one graduate credit hour every semester until their graduation.

HEALTH AND PHYSICAL EDUCATION Courses

HPE 502. Methods and Materials in Health Education. 3 Credits.
This course will enable teacher candidates to gain insight into the techniques, methodology, and philosophy of field-based health and physical education. Teacher candidates will be expected to observe and participate in the teaching of simple lessons.
HPE 504. Adapted Physical Education. 3 Credits.
Students will become acquainted with the practices and researching of different disabilities, the learning modes of the exceptional child, and IDEA (the law that advocates free and appropriate education). The course will also examine how to work within the ecosystem surrounding a child with disabilities. A vital component of the course will be the practical application of theory.

HPE 506. Tests and Measurement in Physical Education and Health. 3 Credits.
This course is designed to acquaint the student with tests and measurement in the fields of health and physical education, test construction, scoring, and methods of using results.

HPE 509. Exercise Physiology. 3 Credits.
An investigation into the physiological adjustments of the human organism to exercise, including systematic and biochemical molecular changes. Major areas of concern include neuromuscular, metabolic, and cardiorespiratory changes during exercise and the influence of such variables as nutrition, drugs, environment, age, sex, training and body weight. Prerequisites: BIOL 240 or BIOL 250.

HPE 530. Nutrition and Fitness Education. 3 Credits.
The study of techniques for the teaching of nutrition and health-related fitness. Content to be covered includes nutrition and various aspects of fitness training appropriate for the teaching of PreK-12 physical education and health.

HPE 569. Practicum Experience and Instructional Planning in Health and Physical Education. 3 Credits.
A clinical experience that allows the teaching candidate to teach and observe professionals in a field-based setting. Portfolio development, reflective assessment of teaching, and student assessment techniques will be emphasized. This course requires a completed ODU clearance/background check prior to entering a school or community agency. Visit: www.odu.edu/ TES for clearance procedures. If students do not have the clearance by the first week of classes, they will be dropped. Prerequisites: passing scores on PRAXIS Core or State Board of Education-approved SAT or ACT scores and admission into teacher education.

HPE 587. Teacher Candidate Seminar. 1 Credit.
Study and group discussion of problems growing out of the student teaching (teacher candidate internship) experience. Students must pass Praxis II to complete this course. Prerequisites: acceptance into teacher education and approval of the program advisor.

HPE 601. Adapted Physical Education Design and Supervision. 3 Credits.
This course is divided into three sections. The first section deals with learning how to administer and interpret several evaluation tools. The second section concentrates on developing computer, video taping, and other technology skills for adapted PE. The third section focuses on overall supervision of adapted PE programs in various school and institutional environments.

HPE 607. Movement Analysis of Individual and Team Sports. 3 Credits.
This laboratory and methods class focuses on the skills and strategies of teaching individual sports (e.g., bowling, badminton, golf, and tennis) and team sports (e.g., football, basketball, volleyball, and softball), using a tactical approach.

HPE 609. Principles of Movement Analysis in Dance and Rhythmic Activities for Physical Education. 3 Credits.
The course is designed to help teachers and coaches improve their skills in analyzing movement skills in dance and rhythmic activities. Such skill analysis is necessary to effectively diagnose movement deficiencies, prescribe techniques for improving performance, and modifying activities for the adaptive program.

HPE 636. Research Problems in Health & Physical Education. 3 Credits.
Practice in the use of statistical and analytical techniques in solving problems in health and physical education; supervised student research.

HPE 668. Internship in Health & Physical Education. 1-6 Credits.
Designed to provide detailed practical experience (400 clock hours) in a health and physical education field setting. Prerequisite: completion of 75% of graduate work.

HPE 680. Problems in Health Education. 3 Credits.
Problems in teaching health education on the elementary and secondary level; family life education, substance use and abuse, and mental and emotional health.

HPE 695. Topics in Health & Physical Education. 1-3 Credits.
Selected topic courses in health and physical education.

HPE 697. Independent Study In Health & Physical Education. 1-3 Credits.
Investigations in health, physical education. Problems approved in advance are investigated under the supervision of the faculty advisor.

HPE 698. Thesis. 3 Credits.

HPE 699. Thesis. 3 Credits.

HPE 704. Advanced Studies in Adapted Physical Education. 3 Credits.
This course provides experiences of teaching adapted physical education content in lecture and gymnasium settings. Students will develop an understanding of a broad spectrum of disability related content that is applicable to physical education, and gain a deep knowledge of specific topics within disability studies. General and disability specific teaching strategies will be discussed.

HPE 718. Applied Learning and Coaching Theory. 3 Credits.
This course examines applied theories of learning and coaching in sport and physical education. Emphasis will be placed on understanding the differing coaching/learning theories and strategies, designing effective practice and game plans, and learning the different learning levels and styles through observing, analyzing, and critiquing skills. Current research and practice will be emphasized.

HPE 719. Planning and Administration in PE and Sport Programs. 3 Credits.
This course is designed to provide in-depth information about the planning and administrative aspects of sport/physical education programs. Content includes, but is not limited to, teaching/training planning, safety and injury prevention, behavioral management, field/facility maintenance, budgetary considerations, public relations, and legal and risk management procedures associated with coaching/teaching PE.

HPE 720. Curriculum Development in Physical Education. 3 Credits.
A course designed to acquaint the student with the basic principles and practices in curriculum development. Curriculum development methodologies for both K-12 and college curricula will be addressed.

HPE 721. Motivational Issues in Sports. 3 Credits.
Motivational and psychological issues relate with sport performance enhancement, athlete/student wellbeing, and clinical issues with specific populations.

HPE 740. Motor Learning and Development. 3 Credits.
This course covers a combination of motor development and motor learning topics. The course information and structure are designed to optimize practitioners’ effectiveness in the classroom and on the field via practical application of motor behavior theories, concepts and principles. Attention is directed toward understanding the acquisition of skills from the fundamental, initial level to the sport-specific, more advanced level, toward optimal age and skill-level practices and developing appropriate motor skill assessments for infants through older adulthood. Past and current research findings are incorporated into each of the course topics.

HPE 745. Assessment/Evaluation and Technology in Sport/PE. 3 Credits.
This course covers assessment/evaluation theory and practices in PE/Sport. Multiple evaluation designs and techniques in different domains such as teaching/coaching, learning, and performance will be discussed along with technology applications in PE/Sport.
HPE 804. Advanced Studies in Adapted Physical Education. 3 Credits.
This course provides experiences of teaching adapted physical education content in lecture and gymnasium settings. Students will develop an understanding of a broad spectrum of disability related content that is applicable to physical education, and gain a deep knowledge of specific topics within disability studies. General and disability specific teaching strategies will be discussed.

HPE 820. Curriculum Development in Physical Education. 3 Credits.
A course designed to acquaint the student with the basic principles and practices in curriculum development. Curriculum development methodologies for both K-12 and college curricula will be addressed.

HPE 840. Motor Learning and Development. 3 Credits.
This course covers a combination of motor development and motor learning topics. The course information and structure are designed to optimize practitioners’ effectiveness in the classroom and on the field via practical application of motor behavior theories, concepts and principles. Attention is directed toward understanding the acquisition of skills from the fundamental, initial level to the sport-specific, more advanced level, toward optimal age and skill-level practices and developing appropriate motor skill assessments for infants through older adulthood. Past and current research findings are incorporated into each of the course topics.

HPE 845. Assessment/Evaluation and Technology in Sport/PE. 3 Credits.
This course covers assessment/evaluation theory and practices in PE/Sport. Multiple evaluation designs and techniques in different domains such as teaching/coaching, learning, and performance will be discussed along with technology applications in PE/Sport.

HUMAN MOVEMENT SCIENCES Courses

HMS 697. Independent Study. 1-3 Credits.
Investigations in health, physical education, recreation, and sport. Problems approved in advance are investigated under the supervision of the faculty advisor.

HMS 698. Thesis. 3-6 Credits.
3-6 credits. Prerequisite: permission of the advisor and committee.

HMS 699. Thesis. 3-6 Credits.
3-6 credits. Prerequisite: permission of the advisor and committee.

HMS 795. Topics in Human Movement Sciences. 1-3 Credits.
Selected topic courses in Human Movement Sciences. Prerequisite: Instructor approval.

HMS 815. Introduction to Doctoral Study Seminar. 3 Credits.
This course explores current issues and trends in all aspects of human movement science and relates theory to practice.

HMS 816. Research Experience I. 3 Credits.
Determination of a research project through the review of literature. Course encompasses formulation of a topic along with the design of a research study.

HMS 817. Research Experience II. 3 Credits.
Supervised research implementation, data collection, and project completion of specific topic within curriculum and instruction or applied kinesiology concepts.

HMS 890. Doctoral Studies Seminar. 3 Credits.
Students will be introduced to expectations of conducting research, explore concepts associated with becoming a faculty member or practitioner with an earned doctorate, and become familiar with campus resources. Students will learn and apply concepts related to scientific writing. This course will include extensive reading of research articles, grant applications, and other scholarly work. Also, this course will investigate the need for professional development. This will include familiarizing oneself with appropriate professional organizations, exploring the benefits and challenges of collaboration, interviewing and preparing for job placements, and preparing a curricular vitae and teaching philosophy.

HMS 891. Doctoral Research Seminar. 3 Credits.
Students are introduced to the main philosophical traditions of research and scholarship that currently inform scientific inquiry in Human Movement Sciences with a specific focus on the preparation of a research proposal.

HMS 895. Topics in Human Movement Sciences. 1-3 Credits.
Selected topic courses in Human Movement Sciences.

HMS 897. Independent Study in Human Movement Sciences. 3 Credits.
Independent reading and study under the direction of a faculty member on a topic in the Human Movement Sciences.

HMS 898. Independent Research in Human Movement Sciences. 1-9 Credits.
Independent research project under the direction of a faculty member that will expose students to a broad range of research topics and research environments in the human movement sciences.

HMS 899. Dissertation. 1-12 Credits.
Work on pre-selected dissertation topic under the direction of dissertation chair. Prerequisite: permission of dissertation committee chair.

HMS 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 graduation.

HMS 999. Doctoral Graduate Credit. 1 Credit.
This course is a pass/fail course for doctoral students may take to maintain active status after successfully passing the candidacy examination. All doctoral students are required to be registered for at least one graduate credit hour every semester until their graduation.

PARK, RECREATION AND TOURISM STUDIES Courses

PRTS 561. The Tourism and Hospitality Industry. 3 Credits.
This course explores tourism from a social perspective. The focus of the course will be on economic and social dimensions of tourism, tourism development strategies, and current research in hospitality from national and international case studies. Prerequisites: permission of instructor.

PRTS 575. Sustainable Tourism Management. 3 Credits.
This course examines the principles and practices of planning, marketing, and managing sustainable tourism. Assessment, development, and maintenance of sustainable tourism products are explored. Prerequisites: Junior standing or permission of the instructor.

PRTS 595. Topics. 1-3 Credits.
This course provides an opportunity for in-depth study of selected topics in the variety of areas comprising parks, recreation and tourism studies.

PRTS 619. Strategic Marketing in Parks, Recreation and Tourism. 3 Credits.
Course is designed to examine the principles and practices of strategic marketing as it pertains to tourism planning and development. The course will explore market analysis in segmenting and identifying specified tourist markets.

PRTS 636. Research Problems in Park, Recreation and Tourism Studies. 3 Credits.
Practice in the use of statistical and analytical techniques in solving problems in Park, Recreation and Tourism Studies; supervised student research.

PRTS 650. Contemporary Issues in Park, Recreation and Tourism Studies. 3 Credits.
This course is designed to increase the student’s ability to critically analyze and discuss the contemporary issues and trends in parks, recreation and tourism. This course will require students to describe, evaluate, and critique the current research in the field; evaluate the future trajectory of park, recreation and tourism studies; and assess both personal and professional philosophies to elucidate his/her role as an advanced-level practitioner in parks, recreation or tourism industry.
PRTS 668. Internship in Park, Recreation and Tourism Studies. 1-6 Credits.
Designed to provide detailed practical experience (400 clock hours) in a park, recreation or tourism field setting. Prerequisite: completion of 75% of graduate work.

PRTS 695. Topics in Park, Recreation and Tourism Studies. 1-3 Credits.
Selected topic courses in Park, Recreation and Tourism Studies.

PRTS 697. Independent Study in Park, Recreation and Tourism Studies. 1-3 Credits.
Investigations in park, recreation, and tourism studies. Problems approved in advance are investigated under the supervision of the faculty advisor.

PRTS 698. Thesis Research in Park, Recreation and Tourism Studies. 3-6 Credits.
Students work independently with a faculty member to conduct research for their thesis on a topic related to Park, Recreation, and Tourism Studies. Prerequisite: Permission of the advisor and committee.

PRTS 699. Thesis in Park, Recreation and Tourism Studies. 3-6 Credits.
Students work independently with a faculty member to complete their thesis on a topic related to Park, Recreation and Tourism Studies. Prerequisite: permission of the advisor and committee.

PRTS 710. Tourist Behavior and Consumption. 3 Credits.
This course explores the complexities and evolution of tourism consumer behavior from a multidisciplinary perspective. Choosing, buying and consuming tourism/travel products and services includes a range of psychosocial processes, individual and environmental influences, motivations, and meanings that researchers and managers of national parks and tourism destinations should take into account when evaluating the tourism experience. This course provides an overview of such processes and influences and explains the basic and advanced concepts and theories that underlie tourist decision-making and behavior.

PRTS 720. Advanced Leisure Theories and their Applications. 3 Credits.
The course examines the concepts, theories and philosophies related to outdoor recreation, travel and tourism, and community recreation. Discussion will focus on the application of social science theories to the study of leisure, parks, recreation and tourism.

PRTS 730. Park Management for Professionals. 3 Credits.
This course targets research related to outdoor recreation in parks and open spaces. Empirical studies investigating sense of place, motivations for outdoor recreation, carrying capacity, crowding, recreation opportunity spectrum, and other sensitive issues will be covered. The course will also provide a historical overview of social sciences in outdoor recreation, and the principles guiding park management.

PRTS 740. Recreation Management for Administrators. 3 Credits.
This course provides preparation for upper-level recreation administration. National standards for managerial, administrative and executive decision-making for parks and recreation professionals will be discussed, in addition to practical knowledge and current real-world skills necessary in today’s changing park and recreation environment. The course is designed to prepare professionals to sit for the Certified Park and Recreation Professionals (CPRP) or Certified Park and Recreation Executive (CPRE) exam.

PRTS 760. Advanced Sustainable Tourism Management. 3 Credits.
This course examines the planning, development and management of the tourism industry with regard to economic, social, cultural and environmental sustainability. Current theory and research in the field of sustainable tourism will also be explored in order for students to develop a critical perspective on sustainable tourism development.

PRTS 770. Grant Writing for Parks and Recreation. 3 Credits.
Grant writing is an essential skill for the park and recreation professional. This course examines the grant writing process. This includes, but is not limited to, The Office of Research, the ODU Research Foundation, budgeting, human subjects, and partnerships. Students will be expected to submit a grant application by the end of the course.

PRTS 780. Youth Development in Recreation. 3 Credits.
The Positive Youth Development (PYD) movement has been greatly influenced by sport and recreation. With the recent increase of diabetes, obesity, sedentary lifestyles, and risky behaviors among youth, sport and recreation professionals are charged to help alleviate these societal issues. More specifically, practitioners need to target the socio-emotional needs of our youth through the sport and recreation experience. By using class lectures, technology, video, and self-directed research, students will explore research, theory, practice, and techniques of structuring positive experiences for youth. This course includes the examination of theories on youth development, behavior management, motivation, resiliency, and social skills as they relate to the sport and recreation experience.

PHYSICAL EDUCATION Courses
PE 597. Topics in Health and Physical Education. 1-3 Credits.
This course provides an opportunity for in-depth study of selected topics in health and physical education. Prerequisites: approval of program advisor.