Department of Human Movement Sciences
2006 Student Recreation Center
757 683-4995
757 683-4270

Lynn L. Ridinger, Ph.D., Chair

The Department of Human Movement Sciences offers graduate programs leading to Master's degrees in four disciplines, which includes Exercise Science; Park, Recreation & Tourism Studies; Sport Management; and Physical Education. Within Physical Education, there are concentrations in Adapted Physical Education, Curriculum & Instruction, Coaching Education, and Initial Virginia Licensure in Health & Physical Education. Additionally, students can earn a graduate certificate in Adapted Physical Education. We also offer Doctoral degrees (Ph.D. in Education - Human Movement Sciences concentration) with emphasis areas in Applied Kinesiology, Health & Sport Pedagogy, and Sport & Recreation Management.

Due to changing University requirements, national accreditation standards, and Commonwealth licensure regulations, the programs in the Darden College of Education and Professional Studies 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 and Professional Studies 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-degree levels 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>9</th>
</tr>
</thead>
</table>

Elective Courses (Select 3 credits from the following)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPE 504</td>
<td>Adapted Physical Education</td>
</tr>
<tr>
<td>HPE 704</td>
<td>Advanced Studies in Adapted Physical Education</td>
</tr>
<tr>
<td>HPE 740</td>
<td>Motor Learning and Development</td>
</tr>
<tr>
<td>HPE 720</td>
<td>Curriculum Development in Physical Education</td>
</tr>
<tr>
<td>HPE 745</td>
<td>Assessment/Evaluation and Technology in Sport/PE</td>
</tr>
</tbody>
</table>

Total Hours 12

Master of Science in Education – Physical Education

Student Recreation Center
757-683-3351

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

Adapted Physical Education Concentration

Xibe Zhu, Ph.D., Graduate Program Director
2010 Student Recreation Center
757-683-3545

Admission and Entrance Requirements

Applicants for the M.S.Ed. in Physical Education are required to submit credentials for consideration through the Office of Graduate Admissions at Old Dominion University. Students applying for admission with regular status must have:

• 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) *
• A combined GRE score of 291 or higher (verbal and quantitative sections) *
• Personal essay (no more than two pages) addressing motivations to apply to program, career interests, and ability to complete graduate level work
• Three letters of recommendation (from former professors or employers)
• Current copy of résumé
• 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 with provisional status.

The program admissions committee will consider GRE waiver requests for high potential candidates by considering application elements that demonstrate the ability to take on the rigor of graduate level studies. A request for a waiver does not guarantee that a waiver will be granted.

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 or higher
• Have a grade point average of 3.0 or higher in the major
• Demonstrate writing proficiency
• Satisfy all course competencies
• Complete an internship or research problem or thesis
• If doing an internship or research problem, also pass a comprehensive examination
• Have an exit interview with the program director
• File the necessary paperwork for graduation

### Curriculum

#### Research Core

<table>
<thead>
<tr>
<th>Course</th>
<th>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 (Research Core)</td>
</tr>
</tbody>
</table>

#### Core Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPE 504</td>
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</tr>
<tr>
<td>HPE 745</td>
<td>Assessment/Evaluation and Technology in Sport/PE</td>
</tr>
</tbody>
</table>

#### Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPED 625</td>
<td>Characteristics of Students with Autism Spectrum Disorders *</td>
</tr>
<tr>
<td>SPED 621</td>
<td>Effective Interventions for Children and Youth with Challenging Behavior **</td>
</tr>
<tr>
<td>HPE 718</td>
<td>Applied Learning and Coaching Theory</td>
</tr>
<tr>
<td>HPE 720</td>
<td>Curriculum Development in Physical Education</td>
</tr>
</tbody>
</table>

#### Thesis

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMS 698</td>
<td>Thesis</td>
</tr>
<tr>
<td>HMS 699</td>
<td>Thesis</td>
</tr>
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#### Research Project Option

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPE 636</td>
<td>Research Problems in Health &amp; Physical Education</td>
</tr>
</tbody>
</table>

#### Total Hours

<table>
<thead>
<tr>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

* One SPED course is strongly recommended to meet CAPE certification requirements.
** List is not comprehensive. Prior approval from graduate advisor is required for other possible electives.
*** An additional Requirement of comprehensive exam based on core course requirements

### Curriculum & Instruction Concentration

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

### Admission and Entrance Requirements

Applicants for the M.S.Ed. in Physical Education are required to submit credentials for consideration through the Office of Graduate Admissions at Old Dominion University. Students applying for admission with regular status must have:

- 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) *
- 3.0 GPA or higher in the undergraduate major *
- A combined GRE score of 291 or higher (verbal and quantitative sections) *
- Personal essay (no more than two pages) addressing motivations to apply to program, career interests, and ability to complete graduate level work
- Three letters of recommendation (from former professors or employers)

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

* The program admissions committee will consider GRE waiver requests for high potential candidates by considering application elements that demonstrate the ability to take on the rigor of graduate level studies. A request for a waiver does not guarantee that a waiver will be granted.

### 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 or higher
- Have a grade point average of 3.0 or higher in the major
- Demonstrate writing proficiency
- Satisfy all course competencies
- Complete an internship or research problem or thesis
- If doing an internship or research problem, also pass a comprehensive examination
- Have an exit interview with the program director
- File the necessary paperwork for graduation

### 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

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Department of Human Movement Sciences 2
area will meet accreditation standards, certify students as athletic coaches, and provide valuable knowledge and skills.

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

Admission and Entrance Requirements
Applicants for the M.S.Ed. in Physical Education are required to submit credentials for consideration through the Office of Graduate Admissions at Old Dominion University. Students applying for admission with regular status must have:

- 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
- A combined GRE score of 291 or higher (verbal and quantitative sections) *
- Current copy of résumé
- Transcripts from all prior postsecondary institutions
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Continuance and Exit Requirements
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Prerequisites

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 250</td>
<td>Human Anatomy and Physiology I</td>
</tr>
<tr>
<td>or BIOL 240</td>
<td>Fundamentals of Anatomy and Physiology I</td>
</tr>
<tr>
<td>EXSC 322</td>
<td>Anatomical Kinesiology</td>
</tr>
<tr>
<td>HPE 409</td>
<td>Physiology of Exercise</td>
</tr>
</tbody>
</table>

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

Research Core

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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>FOUN 611</td>
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<td>Introduction to Applied Statistics and Data Analysis</td>
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Core Courses

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<tr>
<td>HPE 718</td>
<td>Applied Learning and Coaching Theory</td>
</tr>
<tr>
<td>HPE 719</td>
<td>Planning and Administration in PE and Sport Programs</td>
</tr>
<tr>
<td>HPE 721</td>
<td>Motivational Issues in Sports</td>
</tr>
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<td>Motor Learning and Development</td>
</tr>
<tr>
<td>HPE 745</td>
<td>Assessment/Evaluation and Technology in Sport/PE</td>
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Capstone Experience: (6 credit hours required - Choose 1 of 2 Options)

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<th>Course</th>
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<tbody>
<tr>
<td>HPE 668</td>
<td>Internship in Health &amp; Physical Education</td>
</tr>
</tbody>
</table>

Electives (3-6 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPE 698</td>
<td>Thesis</td>
</tr>
<tr>
<td>HPE 699</td>
<td>Thesis</td>
</tr>
</tbody>
</table>

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

Total Hours 30

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

Admission and Entrance Requirements
Applicants for the M.S.Ed. in Physical Education are required to submit credentials for consideration through the Office of Graduate Admissions at Old Dominion University. Students applying for admission with regular status must have:

- 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 ) *
- 3.0 GPA or higher in the undergraduate major *
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Electives (3-6 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXSC 508</td>
<td>Nutrition for Fitness and Sport (pre-req EXSC 409 Ex Phys)</td>
</tr>
<tr>
<td>HPE 509</td>
<td>Exercise Physiology (recommended if you have not taken HPE 409 or equivalent as a prerequisite)</td>
</tr>
<tr>
<td>HPE 720</td>
<td>Curriculum Development in Physical Education</td>
</tr>
<tr>
<td>SMGT 760</td>
<td>Sport Law</td>
</tr>
</tbody>
</table>

*Passing the comprehensive exams is required for the internship option

Thesis Option (3-6 Credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPE 698</td>
<td>Thesis</td>
</tr>
<tr>
<td>HPE 699</td>
<td>Thesis</td>
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</tbody>
</table>

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

Total Hours 30

3  Department of Human Movement Sciences
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 or higher
- Have a grade point average of 3.0 or higher in the major
- Demonstrate writing proficiency
- Satisfy all course competencies
- Complete an internship or research problem or thesis
- If doing an internship or research problem, also pass a comprehensive examination
- Have an exit interview with the program director
- File the necessary paperwork for graduation

Additional Information and Requirements

- Passing score on PRAKIS 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):

Prerequisites for VA Teaching Licensure

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 105N</td>
<td>Biology for Nonscience Majors I</td>
</tr>
<tr>
<td>BIOL 250</td>
<td>Human Anatomy and Physiology I</td>
</tr>
<tr>
<td>or BIOL 240</td>
<td>Fundamentals of Anatomy and Physiology I</td>
</tr>
<tr>
<td>EXSC 322</td>
<td>Anatomical Kinesiology</td>
</tr>
<tr>
<td>HPE 200</td>
<td>Foundations of Education, Physical Education and Health</td>
</tr>
<tr>
<td>HPE 220</td>
<td>Teaching of Team Sports</td>
</tr>
<tr>
<td>HPE 222</td>
<td>Teaching Individual Sports and Dance</td>
</tr>
<tr>
<td>HPE 224</td>
<td>Personal and Community Health</td>
</tr>
<tr>
<td>HPE 324</td>
<td>Teaching Injury Care for Sports</td>
</tr>
<tr>
<td>HPE 480</td>
<td>Teacher Candidate Seminar</td>
</tr>
<tr>
<td>TLED 408</td>
<td>Reading and Writing in Content Area</td>
</tr>
<tr>
<td>HPE 369</td>
<td>Practicum Experience and Instructional Planning in Health and Physical Education (*)</td>
</tr>
</tbody>
</table>

* Field Observation and/or teaching experience required

Required Courses: 30 credit hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPE 719</td>
<td>Planning and Administration in PE and Sport Programs</td>
</tr>
<tr>
<td>HPE 720</td>
<td>Curriculum Development in Physical Education</td>
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</table>

VA Teaching Licensure Requirements

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>HPE 402</td>
<td>Methods and Materials in Health Education</td>
</tr>
<tr>
<td>HPE 430</td>
<td>Nutrition and Fitness Education</td>
</tr>
<tr>
<td>HPE 504</td>
<td>Adapted Physical Education</td>
</tr>
<tr>
<td>HPE 509</td>
<td>Exercise Physiology</td>
</tr>
</tbody>
</table>

Research Foundation - 6 credits

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

Internship Requirements - 6 credits

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</thead>
<tbody>
<tr>
<td>HPE 668</td>
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</table>

Electives when needed (advisor approval required)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<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 30

Master of Science in Exercise Science

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

The Master of Science in Exercise Science is designed for the student who desires to pursue advanced study in the science of exercise. The coursework will help 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 a preventative medicine.

Admission and Entrance Requirements

Applicants for the M.S. in Exercise Science are required to submit credentials for consideration through the Office of Graduate Admissions at Old Dominion University. Students applying for admission with regular status must have:

- 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) *
- 3.0 GPA or higher in the undergraduate major *
- A combined GRE score of 291 or higher (verbal and quantitative sections) *
- Personal essay (no more than two pages) addressing motivations to apply to program, career interests, and ability to complete graduate level work
- Three letters of recommendation (from former professors or employers)
- Current copy of résumé
- 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 with provisional status.

* The program admissions committee will consider GRE waiver requests for high potential candidates by considering application elements that
demonstrate the ability to take on the rigor of graduate level studies. A request for a waiver does not guarantee that a waiver will be granted.

Prerequisites include two semesters of anatomy and physiology, one semester of exercise physiology, one semester of physics, 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 must:

- Have an overall grade point average of 3.0 or higher
- Have a grade point average of 3.0 or higher in the major
- Demonstrate writing proficiency
- Satisfy all course competencies
- Complete an internship or research problem or thesis
- If doing an internship or research problem, also pass a comprehensive examination
- Have an exit interview with the program director
- File the necessary paperwork for graduation

**Curriculum**

<table>
<thead>
<tr>
<th>Exercise Science Core</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXSC 630 Exercise Physiology</td>
<td></td>
</tr>
<tr>
<td>EXSC 642 Clinical Exercise Testing and Prescription</td>
<td></td>
</tr>
<tr>
<td>EXSC 661 Nutrition for Sports and Health</td>
<td></td>
</tr>
<tr>
<td>EXSC 727 Advanced Biomechanics</td>
<td></td>
</tr>
</tbody>
</table>

**Research Core**

| 3-6 |
| FOUN 612 Applied Research Methods in Education |
| FOUN 722 Introduction to Applied Statistics and Data Analysis |

*Research Problems in Exercise Science*

**Tracks - Select One**

| 12-15 |
| Thesis Track (12 credit hours) |
| EXSC 698 Thesis Research in Exercise Science |
| EXSC 699 Thesis in Exercise Science |

**Internship Track (15 Credit Hours)**

| 15 |
| Internship in Exercise Science |

**Research Problem Track (12 Credit Hours)**

| 12 |
| Research Problems in Exercise Science |

**Restricted Electives (6-9 hours, selected with advisor)**

| 6-9 |
| BIOL 523 Cellular and Molecular Biology |
| BIOL 524 Comparative Animal Physiology |
| BIOL 590 Advanced Human Physiology |
| CHP 520 Foundations of Gerontology |
| CHP 525 Health Aspects of Aging |
| EXSC 528 Exercise Prescription for Chronic Disease |
| EXSC 531 Wellness Programming and Administration |
| EXSC 621 Strength and Conditioning Applications |
| EXSC 730 Advanced Cardiovascular Exercise Physiology |
| EXSC 738 Exercise Endocrinology |
| EXSC 740 Ergogenic Aids in Sport and Human Performance |
| HMS 697 Independent Study |

**Total Hours**

| 30 |

* FOUN 612 is required in all tracks.
** FOUN 722 is required for the Thesis Track and the Research Problem Track.

**Master of Science in Park, Recreation & Tourism Studies**

Lindsay Usher, Graduate Program Director

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 for consideration through the Office of Graduate Admissions at Old Dominion University. Students applying for admission with regular status must have:

- 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
- A cumulative GPA of 3.0 or higher (on a 4.0 scale)
- A combined GRE score of 291 or higher (verbal and quantitative sections)
- A personal essay (no more than two pages) addressing motivations to apply to program, career interests, and ability to complete graduate level work
- Three letters of recommendation (from former professors or employers)
- A current copy of résumé
- Transcripts from all prior postsecondary institutions
- 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 with provisional status.

* The program admissions committee will consider GRE/GMAT waiver requests for high potential candidates by considering application elements that demonstrate the ability to take on the rigor of graduate level studies. A request for waiver does not guarantee that a waiver will be granted.

**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 or higher
- Have a grade point average of 3.0 or higher in the major
- Demonstrate writing proficiency
- Satisfy all course competencies
- Pass an oral thesis proposal defense (thesis option only)
- Pass a comprehensive examination (research project option only)
- Complete a thesis/research project
- Have an exit interview with the program director
- 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 12

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRTS 650</td>
<td>Contemporary Issues in Park, Recreation and Tourism Studies</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

<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>

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

**Thesis Option**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRTS 698</td>
<td>Thesis Research in Park, Recreation and Tourism Studies</td>
</tr>
<tr>
<td>PRTS 699</td>
<td>Thesis in Park, Recreation and Tourism Studies</td>
</tr>
</tbody>
</table>

**Research Project Option**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>PRTS 636</td>
<td>Research Problems in Park, Recreation and Tourism Studies</td>
</tr>
</tbody>
</table>

+ Denotes an additional requirement of comprehensive exam based on core course requirements.

Electives 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRTS 697</td>
<td>Independent Study in Park, Recreation and Tourism Studies</td>
</tr>
<tr>
<td>PRTS 710</td>
<td>Tourist Behavior and Consumption</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 and Governance of Nonprofit Organizations</td>
</tr>
<tr>
<td>PADM 745</td>
<td>Managing Development and Change in Organizations</td>
</tr>
<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>

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

**Total Hours** 30

**Master of Science in Sport Management**

Lamar Reams, Ph.D., Graduate Program Director
2012 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.

**Admission and Entrance Requirements**

Applicants for the M.S. in Sport Management are required to submit credentials for consideration through the Office of Graduate Admissions at Old Dominion University. Students applying for admission with regular status must have:

- 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) *
- 3.0 GPA or higher in the undergraduate major *
- GRE score of 291 or higher (verbal and quantitative sections) or a score of 400 or higher on either the GMAT or MAT *
- Personal essay (no more than two pages) addressing motivations to apply to program, career interests, and ability to complete graduate level work
- Three letters of recommendation (from former professors or employers)
- Current copy of résumé
- 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 with 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 Director to indicate interest in being considered for a waiver.

**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 must:

- Have an overall grade point average of 3.0 or higher
- Have a grade point average of 3.0 or higher in the major
- Demonstrate writing proficiency
- Satisfy all course competencies
- Complete an internship or research problem or thesis
- If doing an internship or research problem, also pass a comprehensive examination
- Have an exit interview with the program director
- File the necessary paperwork for graduation

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMGT 738</td>
<td>Sport Finance</td>
</tr>
<tr>
<td>SMGT 746</td>
<td>Strategic Marketing in Sport</td>
</tr>
<tr>
<td>SMGT 760</td>
<td>Sport Law</td>
</tr>
<tr>
<td>SMGT 775</td>
<td>Management and Leadership in Sport</td>
</tr>
</tbody>
</table>

**Research Core: 6 credit hours required** 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOUN 611</td>
<td>Introduction to Research Methods in Education or FOUN 612</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** 6

**Thesis Option**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMGT 698</td>
<td>Thesis Research in Sport Management</td>
</tr>
</tbody>
</table>

Department of Human Movement Sciences 6
Department of Human Movement Sciences

Admission and Entrance Requirements

Admission to the Human Movement Sciences concentration of the Ph.D. in Education is competitive and meeting the minimum requirements does not ensure admission to the program. The admissions committee reviews applications and considers a number of criteria, including a goodness of fit between student and faculty.

The deadline for applying is January 15. Applicants may be contacted to set up an interview as part of the final selection process.

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 résumé 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>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</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>
</tbody>
</table>
### Health & Sport Pedagogy Emphasis Curriculum

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

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

<table>
<thead>
<tr>
<th>Research Core (12 credits minimum, required*)</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOUN 812 Research Design and Analysis *</td>
<td></td>
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<tr>
<td>FOUN 814 Qualitative Research Design in Education *</td>
<td></td>
</tr>
<tr>
<td>FOUN 822 Applied Linear Models in Educational Research</td>
<td></td>
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<tr>
<td>FOUN 823 Analysis of Variance Applied to Educational Research</td>
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<table>
<thead>
<tr>
<th>Professional Preparation (9 credits minimum)</th>
<th>9</th>
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</thead>
<tbody>
<tr>
<td>HMS 890 Doctoral Studies Seminar</td>
<td></td>
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<tr>
<td>FOUN 881 Dissertation Seminar</td>
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</tr>
<tr>
<td>TLCI 803 Perspectives and Inquiry in Curriculum and Instruction</td>
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<tr>
<td>TLCI 804 Instruction Theories and Models</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Sport and Recreation Management Emphasis (18 credits minimum)</th>
<th>18</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRTS 810 Tourist Behavior and Consumption</td>
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</table>

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

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

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

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

<table>
<thead>
<tr>
<th>Health &amp; Sport Pedagogy Emphasis</th>
<th>21</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPE 718 Applied Learning and Coaching Theory</td>
<td></td>
</tr>
<tr>
<td>HPE 721 Motivational Issues in Sports</td>
<td></td>
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<tr>
<td>HPE 804 Advanced Studies in Adapted Physical Education</td>
<td></td>
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<tr>
<td>HPE 819 Planning and Administration in PE and Sport Programs</td>
<td></td>
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<tr>
<td>HPE 820 Curriculum Development in Physical Education</td>
<td></td>
</tr>
<tr>
<td>HPE 840 Motor Learning and Development</td>
<td></td>
</tr>
</tbody>
</table>

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
environment, ergogenic aids, temperature, attitude, and other factors on exercise, neuromuscular relationships, and the effects of training or diet, including the cardiovascular-respiratory system, metabolic effects of EXSC 630 findings, breakthrough techniques and advanced weight training techniques, settings.

An introduction to the principles of administration and implementation of EXSC 531 fitness and wellness programs to individuals, groups, centers and corporate settings.

A study of pathophysiology of common diseases with concentration in the EXSC 528 variety of chronic diseases.

Application of physical laws and mechanical principles to the human ENGL 221C or ENGL 231C with a grade of C or better.

The application of different methodologies in the measurement of EXSC 515 exercise physiology and pathophysiology of the cardiovascular system. Prerequisite: EXSC 417 or EXSC 517.

EXSC 515. Exercise Testing for Normal and Special Populations. 4 Credits. The application of different methodologies in the measurement of physiologic responses to exercise. Emphasis is placed on understanding American College of Sports Medicine guidelines, appropriate experimental techniques, and equipment necessary to evaluate changes in body composition and various metabolic, cardiovascular, and respiratory adjustments during exercise.

EXSC 517. Biomechanics. 4 Credits. Application of physical laws and mechanical principles to the human musculoskeletal system. Prerequisites: BIOL 250, PHYS 111N and MATH 102M or higher with a C or better; ENGL 110C and ENGL 211C or ENGL 221C or ENGL 231C with a grade of C or better.

EXSC 528. Exercise Prescription for Chronic Disease. 3 Credits. A study of pathophysiology of common diseases with concentration in the design, implementation and administration of exercise prescription for a variety of chronic diseases.

EXSC 531. Wellness Programming and Administration. 3 Credits. An introduction to the principles of administration and implementation of fitness and wellness programs to individuals, groups, centers and corporate settings.

EXSC 621. Strength and Conditioning Applications. 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 techniques and advanced weight training techniques, and popular conditioning practices.

EXSC 630. Exercise Physiology. 3 Credits. Review of current physiological literature related to muscular exercise including the cardiovascular-respiratory system, metabolic effects of exercise, neuromuscular relationships, and the effects of training or diet, environment, ergogenic aids, temperature, attitude, and other factors on performance and health. Prerequisite: HPE 509 or equivalent.

EXSC 636. Research Problems in Exercise Science. 3 Credits. Practice in the use of statistical and analytical techniques in solving problems in exercise science; supervised student research.

EXSC 642. Clinical Exercise Testing and Prescription. 3 Credits. Principles of diagnostic exercise assessment, cardiovascular physiology, electrocardiography, ACSM guidelines to exercise testing and prescription for symptomatic and asymptomatic populations. Course includes laboratory assignments. Prerequisite: EXSC 630 or permission of instructor.

EXSC 661. 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 668. Internship in Exercise Science. 6 Credits. Designed to provide detailed practical experience (200 clock hours) in an exercise science field setting. Prerequisite: completion of 18 credit hours of graduate coursework, a minimum graduate GPA of at least 3.0, and permission of the instructor.

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. Course includes laboratory assignments. Prerequisite: EXSC 417 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 740. Ergogenic Aids in Sport and Human Performance. 3 Credits. An ergogenic aid is any technique or substance (nutritional, drug, etc.) used to enhance mental or physical performance. This course introduces students to the various classes of ergogenic aids and critically explores scientific research regarding their use, prevalence, physiological effects, and safety, as well as ethical concerns.

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. Course includes laboratory assignments. Prerequisite: EXSC 417 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 388. 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 840. Ergogenic Aids in Sport and Human Performance. 3 Credits.
An ergogenic aid is any technique or substance (nutritional, drug, etc.) used to enhance mental or physical performance. This course introduces students to the various classes of ergogenic aids and critically explores scientific research regarding their use, prevalence, physiological effects, and safety, as well as ethical concerns.

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, videotaping, 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 819. 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 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 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 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 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 psycho-social 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.

PRTS 810. 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 psycho-social 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 820. 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 830. Park Management for Professionals. 3 Credits.
This course targets the pursued and needed research of outdoor recreation in parks and open space. Empirical studies investigating areas such as: sense of place, motivations for outdoor recreation, carrying capacity, crowding, recreation opportunity spectrum, and other sensitive issues will be covered. The course will also include an historical overview of social sciences in outdoor recreation. The course will also cover principles to guide park management.

PRTS 840. 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 860. 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 880. 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.

SPORT MANAGEMENT Courses
SMGT 556. Sport Psychology. 3 Credits.
Study of the psychological bases of coaching strategies and methodologies. Emphasis is placed on applying knowledge in field settings.

SMGT 595. Topics in Sport Management. 3 Credits.
This course provides an opportunity for in-depth study of selected topics in sport management. Pre- or corequisite: Permission from the instructor.

SMGT 636. Research Problems in Sport Management. 3 Credits.
Practice in the use of statistical and analytical techniques in solving problems in sport management; supervised student research. Prerequisites: HMS 635 or FOUN 612; taken in the last semester of graduate work.

SMGT 652. Facility Management for Sport, Recreation and Entertainment. 3 Credits.
This course examines the principles of facility operation for sport, recreation, and entertainment events. It will provide students with an understanding of the unique challenges and opportunities commonly faced by facility managers and how to effectively manage a sport facility. Students will analyze current research related to planning, funding, and operating facilities for sport, recreation, and entertainment. Prerequisites: Must be a degree seeking student admitted into the M.S. Sport Management program.

SMGT 653. Sponsorship and Event Planning. 3 Credits.
This course examines the theory and practice of securing sponsorships and planning events. Students will analyze partnerships created between sport events and corporate sponsors. In addition, students will gain experience in planning and implementing a sport or leisure event. Prerequisite: Must be a degree seeking student admitted into the M.S. Sport Management program.

SMGT 668. Internship in Sport Management. 6 Credits.
Designed to provide detailed practical experience (400 clock hours) in a sport management field setting. Prerequisite: Must be a degree seeking student admitted into the M.S. Sport Management program.

SMGT 695. Topics in Sport Management. 1-3 Credits.
Selected topic courses in Sport Management. Prerequisite: Must be a degree seeking student admitted into the M.S. Sport Management program.

SMGT 697. Independent Study in Sports Management. 1-3 Credits.
Individualized instruction to include research, specialized studies, or other scholarly writing. Prerequisite: Must be a degree seeking student admitted into the M.S. Sport Management program.

SMGT 698. Thesis Research in Sport Management. 3-6 Credits.
Students work independently with a faculty member to conduct research for their thesis on a topic related to sport management. Prerequisite: Permission of the advisor and committee.

SMGT 699. Thesis in Sport Management. 3-6 Credits.
Students work independently with a faculty member to complete their thesis on a topic related to sport management. Prerequisite: Permission of the advisor and committee.

SMGT 738. Sport Finance. 3 Credits.
This course is designed to examine the principles and practices of financial management in diverse sport service settings. This course will explore the basic concepts of financial planning and analysis required to effectively manage a successful sport operation. The concepts covered in this course include finance, economics, accounting, and general business practices. Students will gain an understanding of the core principles associated with the financial management of sport enterprises. Prerequisite: Must be a degree seeking student admitted into the M.S. Sport Management program.

SMGT 746. Strategic Marketing in Sport. 3 Credits.
This course will familiarize the student with theoretical and practical aspects of sport marketing including the dynamic nature of sport and the importance of branding. Through lecture and case-study analysis, the course will provide students with an understanding of the importance of marketing and consumer behavior theory and fundamentals specific to strategic marketing in the sport industry. Prerequisite: Must be a degree seeking student admitted into the M.S. Sport Management program.

SMGT 750. Ethics in Sport Management. 3 Credits.
This course is designed to provide students with an understanding of ethics and morals and how they apply in sport management settings. Teleological and deontological theories of ethics are examined with special application to sport environments. Models of moral development, ethical decision making, and codes of ethics are emphasized. Prerequisite: Must be a degree seeking student admitted into the M.S. Sport Management program.

SMGT 755. Social Issues in Sport. 3 Credits.
The course will examine the nature and scope of sport from sociological, historical, economic, and philosophical perspectives. Special emphasis will be placed on studying selected issues and topics that impact sport managers and their understanding of the role that sport plays in society. Prerequisite: Must be a degree seeking student admitted into the M.S. Sport Management program.

SMGT 760. Sport Law. 3 Credits.
This course will examine the theory and practice of sport law as it relates to the management and supervision of sport and recreation facilities, programs, events, and legal obligations. Prerequisite: Must be a degree seeking student admitted into the M.S. Sport Management program.

SMGT 775. Management and Leadership in Sport. 3 Credits.
This course will examine various management principles as they apply to sport settings. Special emphasis will be placed on studying leadership theories, human resource management, strategic planning, decision making, problem-solving, and employee motivation. Prerequisite: Must be a degree seeking student admitted into the M.S. Sport Management program.

SMGT 780. Sport Analytics. 3 Credits.
This course will examine the theory, development, and application of analytics in sport. Students will learn about the application of analytics in sport for purposes of evaluating player performance, team management, market segmentation, pricing, and other areas in sport industry operations. Analytics includes the inclusive use of data, statistical and quantitative analysis, explanatory and predictive models, and fact-based decision making.

SMGT 785. Sport Entrepreneurship. 3 Credits.
This course will introduce students to various aspects of sport entrepreneurship ranging from development of an idea for a sport business to the formulation of a comprehensive sport business plan.

SMGT 795. Topics in Sport Management. 1-3 Credits.
Selected topic courses in sport management. Prerequisite: Must be a degree seeking student admitted into the M.S. Sport Management program.
SMGT 838. Sport Finance. 3 Credits.
This course is designed to examine the principles and practices of financial management in diverse sport service settings. This course will explore the basic concepts of financial planning and analysis required to effectively manage a successful sport operation. The concepts covered in this course include finance, economics, accounting, and general business practices. The course is intended to offer a broad perspective of sport finance along with the basic skills associated with fiscal planning and management. Students will gain an understanding of the core principles associated with the financial management of sport enterprises. Prerequisite: Must be a degree seeking student admitted into the Human Movement Sciences doctoral program.

SMGT 846. Strategic Marketing in Sport. 3 Credits.
This course will familiarize the student with theoretical and practical aspects of sport marketing, including the dynamic nature of sport and the importance of branding. Through lecture and case-study analysis, the course will provide students with an understanding of the importance of marketing and consumer behavior theory and fundamentals specific to strategic marketing in the sport industry. Prerequisite: Must be a degree seeking student admitted into the Human Movement Sciences doctoral program.

SMGT 850. Ethics in Sport Management. 3 Credits.
This course is designed to provide students with an understanding of ethics and morals and how they apply in sport management settings. Teleological and deontological theories of ethics are examined with special application made to sport environments. Models of moral development, ethical decision making, and codes of ethics are emphasized. Prerequisite: Must be a degree seeking student admitted into the Human Movement Sciences doctoral program.

SMGT 855. Social Issues in Sport. 3 Credits.
The course will examine the nature and scope of sport from sociological, historical, economic, and philosophical perspectives. Special emphasis will be placed on studying selected issues and topics that impact sport managers and their understanding of the role that sport plays in society. Prerequisite: Must be a degree seeking student admitted into the Human Movement Sciences doctoral program.

SMGT 860. Sport Law. 3 Credits.
This course will examine the theory and practice of sport law as it relates to the management and supervision of sport and recreation facilities, programs, participants, spectators and events. Prerequisite: Must be a degree seeking student admitted into the Human Movement Sciences doctoral program.

SMGT 875. Management and Leadership in Sport. 3 Credits.
This course will examine various management principles as they apply to sport settings. Special emphasis will be placed on studying leadership theories, human resource management, strategic planning, decision making, problem-solving, and employee motivation. Prerequisite: Must be a degree seeking student admitted into the Human Movement Sciences doctoral program.

SMGT 895. Topics in Sport Management. 1-3 Credits.
Selected topic courses in sport management. Prerequisite: Must be a degree seeking student admitted into the Human Movement Sciences doctoral program.