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**

**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 (http://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) *
- 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)
- 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.

**Curriculum**

**Exercise Science Core**

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>FOUN 612</td>
<td>Applied Research Methods in Education</td>
</tr>
</tbody>
</table>

**Concentrations**

Select one of the following:

**Thesis Concentration**

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

**Internship Concentration**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>EXSC 668</td>
<td>Internship in Exercise Science</td>
</tr>
</tbody>
</table>

**Research Problem Concentration**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>EXSC 636</td>
<td>Research Problems in Exercise Science</td>
</tr>
<tr>
<td>FOUN 722</td>
<td>Introduction to Applied Statistics and Data Analysis</td>
</tr>
</tbody>
</table>

**Restricted Electives**

- BIOL 523 Cellular and Molecular Biology
- BIOL 524 Comparative Animal Physiology
- BIOL 590 Advanced Human Physiology
- EXSC 528 Exercise Prescription for Chronic Disease
- EXSC 531 Wellness Programming and Administration
- EXSC 621 Strength and Conditioning Applications
- EXSC 740 Ergogenic Aids in Sport and Human Performance
- HMS 697 Independent Study
- KRS 820 MATLAB Programming for Kinesiology and Rehabilitation
- KRS 851 Motor Performance: Rhythmic/Cyclic Tasks
- PSYC 651 Developmental Psychology
- PSYC 731 Human Cognition

**Total Credit Hours**: 30

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

**Additional Requirements**

**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, research problem, or thesis
- If completing an internship or research problem, must also pass a comprehensive examination
- Have an exit interview with the program director
- File the necessary paperwork for graduation