Master of Science (M.S.) Major in Exercise Science (Non-Thesis Option)

Program Overview
Students seeking a Master of Science (M.S.) degree with a major in Exercise Science will appreciate the value and importance of research-based literature and have the critical thinking, research, and technical skills to:

1. understand research-based literature;
2. use innovative approaches to problem solving;
3. successfully pursue a doctoral degree in exercise science or related discipline;
4. work in athletic, clinical (e.g., cardiopulmonary rehabilitation and diagnostic testing), educational, and fitness settings; and
5. sit for advanced professional certifications (e.g., the American College of Sports Medicine Certified Clinical Exercise Specialist, Certified Health Fitness Specialist, Certified Strength and Conditioning Specialist, or Registered Clinical Exercise Physiologist).

Application Requirements
The items listed below are required for admission consideration for applicable semesters of entry during the current academic year. Submission instructions, additional details, and changes to admission requirements for semesters other than the current academic year can be found on The Graduate College's website (http://www.gradcollege.txstate.edu). International students should review the International Admission Documents webpage (http://mycatalog.txstate.edu/graduate/admission-documents/international/) for additional requirements.

1. completed online application
2. $55 nonrefundable application fee
3. $90 nonrefundable application fee for applications with international credentials
4. baccalaureate degree from a regionally accredited university
5. official transcripts from each institution where course credit was granted
6. minimum 2.75 GPA in the last 60 hours of undergraduate course work (plus any completed graduate courses)
7. background course work (at least 9 hours of exercise science undergraduate credit hours. Students who do not have these hours may be required to complete leveling courses.)
8. GRE not required
9. resume/CV
10. statement of purpose (approximately 500 words, typed and double-spaced) addressing the following:
    - professional goals
    - reasons for pursuing education and training in exercise science
    - summary of major strengths and weaknesses with respect to being admitted into the program
    - experiences and/or research interests that may contribute to the program
11. three letters of recommendation (including at least two academic references) regarding professional competence and character

TOEFL, PTE, or IELTS Scores
Non-native English speakers who do not qualify for an English proficiency waiver:

- official TOEFL iBT scores required with a 78 overall
- official PTE scores required with a 52
- official IELTS (academic) scores required with a 6.5 overall and minimum individual module scores of 6.0

This program does not offer admission if the scores above are not met.

Degree Requirements
The Master of Science (M.S.) degree with a major in Exercise Science requires 36 semester credit hours.

As background prerequisites, an Exercise Science major is expected to have a minimum of 9 semester hours of exercise science course work as background course work (at least 9 hours of exercise science undergraduate credit hours. Students who do not have these hours may be required to complete leveling courses.)

Course Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ESS 5304</td>
<td>Motor Learning and Performance</td>
<td>3</td>
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<tr>
<td>ESS 5309</td>
<td>Biomechanics for Exercise &amp; Sports Science</td>
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<tr>
<td>ESS 5346</td>
<td>Research Methods in Health and Human Performance</td>
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<tr>
<td>ESS 5356</td>
<td>Applied Statistics in Health and Human Performance</td>
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Prescribed Electives

Choose 3 hours from the following:

- ESS 5306 Advanced Exercise Physiology
- ESS 5310 Cardiopulmonary Exercise Physiology
- ESS 5311 Applied Neuromuscular and Skeletal Muscle Physiology

Choose 15 hours from the following:

- ESS 5110 Research Seminar (May be repeated twice)
- ESS 5305 Advanced Fitness Assessment and Exercise Prescription
- ESS 5306 Advanced Exercise Physiology
- ESS 5307 Advanced Resistance Training and Conditioning
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>ESS 5308</td>
<td>Physical Activity, Disease Prevention and Treatment</td>
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<td>ESS 5310</td>
<td>Cardiopulmonary Exercise Physiology</td>
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<td>ESS 5312</td>
<td>Applied Exercise Metabolism</td>
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<tr>
<td>ESS 5322</td>
<td>Inclusion and Diversity in Physical Activity and Sport</td>
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<tr>
<td>ESS 5327</td>
<td>Application of Strength and Conditioning Principles</td>
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<tr>
<td>ESS 5328</td>
<td>Principles of Endurance Training</td>
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<tr>
<td>ESS 5344</td>
<td>The Science of Teaching in Health and Human Performance</td>
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<td>ESS 5347</td>
<td>Independent Study in Exercise Science</td>
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<tr>
<td>ESS 5353</td>
<td>Curriculum Design, Implementation and Evaluation in Diverse Physical Activity Settings</td>
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<td>ESS 5354</td>
<td>Developmental Sports Education: Youth Participants</td>
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<tr>
<td>ESS 5355</td>
<td>Developmental Sports Education: High-Level Athletes and Coaching Effectiveness</td>
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<tr>
<td>ESS 5398</td>
<td>Internship in Exercise and Sports Science</td>
<td>or ESS 5698 Internship in Exercise and Sports Science</td>
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Choose 6 hours from the following: 6

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<tr>
<td>AT 5310</td>
<td>Proprioception and Neuromuscular Control in Rehabilitation</td>
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<tr>
<td>AT 5311</td>
<td>Biomechanics of Musculoskeletal Injury</td>
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<td>BIO 5441</td>
<td>Cellular Physiology</td>
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<tr>
<td>NUTR 5302G</td>
<td>Pediatric Obesity</td>
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<tr>
<td>NUTR 5364</td>
<td>The Science of Nutrition and Exercise</td>
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<tr>
<td>NUTR 5366</td>
<td>Nutrient Metabolism I</td>
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<td>PH 5321</td>
<td>Advanced Health Behavior Theory</td>
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<td>PHIL 5322</td>
<td>Professional Ethics</td>
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<tr>
<td>PHIL 5326</td>
<td>Philosophy and Sport</td>
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<tr>
<td>PHIL 5327</td>
<td>Medical Ethics and Bio-ethics</td>
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<tr>
<td>PSY 5335</td>
<td>Foundations of Health Psychology</td>
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**Comprehensive Examination Requirement**

The comprehensive take-home exam is an independent, individual assignment where students will apply scholarly principles from at least two sub-disciplines within Exercise Science for practical use. The final product should demonstrate the student's mastery of content in two sub-disciplines and inform practitioners or organizations regarding the efficacy of a set of strategies, lessons, or a program. Examples include creating an innovative program related to exercise and sports science (e.g., training or fitness program, rehabilitation program), creating a series of teaching lessons for a specific group of students, conducting a program evaluation, creating a website to inform practitioners on a topic related to exercise and sports science, or writing a paper that incorporates practical recommendations based on literature in the field. The oral defense could consist of a question and answer session or a concise presentation followed by questions. If the final product and/or oral defense does not meet requirements, graduation may be delayed until the appropriate work is completed.

Students who do not successfully complete the requirements for the degree within the timelines specified will be dismissed from the program.

**Courses Offered**

**Exercise Science Specialization (ESS)**

ESS 5101. Graduate Assistant Development.

This course is required of all graduate teaching and instructional assistants in the department. This course provides regular in-service and planned periodic evaluations of instructional and professional responsibilities. This course does not earn graduate degree credit. 1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours. Course Attribute(s): Graduate Assistantship|Exclude from Graduate GPA

Grade Mode: Leveling/Assistantships

ESS 5110. Research Seminar.

The focus of this course engages students in research and professional development in Exercise and Sports Science. This seminar will allow students to gain exposure to a variety of scholarly activities in an interdisciplinary setting. 1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours. Course Attribute(s): Exclude from 3-peat Processing

Grade Mode: Standard Letter

ESS 5117. Laboratory in Exercise Physiology.

Students in this leveling laboratory course perform experiments that highlight the physiological responses to exercise. The course introduces students to basis techniques in the assessment of health and human performance, including the assessment of maximal oxygen consumption, body composition, anaerobic power and capacity, muscular fitness, movement economy, and dietary intake. This course does not earn graduate degree credit. Prerequisite: BIO 2430 or equivalent. Co-requisite: ESS 5317.

1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours. Course Attribute(s): Exclude from Graduate GPA|Leveling

Grade Mode: Leveling/Assistantships

ESS 5199B. Thesis.

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the completed thesis is submitted for binding. Prerequisite: ESS 5399A.

1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours. Course Attribute(s): Graduate Assistantship|Exclude from Graduate GPA

Grade Mode: Credit/No Credit

ESS 5201. Graduate Assistant Development.

This course is required of all graduate teaching and instructional assistants in the department. This course provides regular in-service and planned periodic evaluations of instructional and professional responsibilities. This course does not earn graduate degree credit.

2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours. Course Attribute(s): Graduate Assistantship|Exclude from Graduate GPA

Grade Mode: Leveling/Assistantships
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Contact Hours</th>
<th>Grade Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESS 5299B</td>
<td>Thesis.</td>
<td>This course represents a student’s continuing thesis enrollment. The student continues to enroll in this course until the completed thesis is submitted for binding. Prerequisite: ESS 5399A. 2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours. 3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.</td>
<td>2</td>
<td>Credit/No Credit</td>
</tr>
<tr>
<td>ESS 5304</td>
<td>Motor Learning and Performance.</td>
<td>This course is designed to provide students the foundation for understanding the principles involved in enhancing motor skill acquisition, and physiological, neurological, and psychological factors affecting motor learning and performance. Inquiry is made into the various motor learning theories and concepts. 3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.</td>
<td>3</td>
<td>Standard Letter</td>
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<tr>
<td>ESS 5305</td>
<td>Advanced Fitness Assessment and Exercise Prescription.</td>
<td>This course provides an intensive study of current scientifically based exercise testing and prescription procedures. Students will learn how to evaluate fitness and prescribe exercise through laboratory experiences. 3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.</td>
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<td>Standard Letter</td>
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<tr>
<td>ESS 5306</td>
<td>Advanced Exercise Physiology.</td>
<td>This advanced course will provide students with a thorough understanding of the acute responses to exercise and the physiological adaptations that occur in response to exercise training. Additional topics to be covered include environmental influences, aging, and sex differences. 3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.</td>
<td>3</td>
<td>Standard Letter</td>
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<tr>
<td>ESS 5307</td>
<td>Advanced Resistance Training and Conditioning.</td>
<td>This course will include the development, instruction, and evaluation of resistance training exercises and programs for diverse populations and settings. Physiological and mechanical principles related to resistance training will be applied to study human performance, injury prevention, and rehabilitation. 3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.</td>
<td>3</td>
<td>Standard Letter</td>
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<tr>
<td>ESS 5308</td>
<td>Physical Activity, Disease Prevention and Treatment.</td>
<td>This course will provide students with opportunities to examine the role of physical inactivity in the development of chronic diseases and the benefits of activity in prevention efforts. A special emphasis will be placed on activity assessment and intervention research. 3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.</td>
<td>3</td>
<td>Standard Letter</td>
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<tr>
<td>ESS 5309</td>
<td>Biomechanics for Exercise &amp; Sports Science.</td>
<td>Review of current research and research techniques in the biomechanics of exercise and sport science. Students will develop skills in reviewing, planning, and conducting biomechanical research. 3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.</td>
<td>3</td>
<td>Standard Letter</td>
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<tr>
<td>ESS 5310</td>
<td>Cardiopulmonary Exercise Physiology.</td>
<td>The course will provide students with a thorough understanding of the structure, function, neural mechanisms, and integrated responses of the human cardiopulmonary system to acute and chronic exercise. In addition, basic cardiopulmonary pathology, pharmacology, and electrocardiography will be introduced. 3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.</td>
<td>3</td>
<td>Standard Letter</td>
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<tr>
<td>ESS 5311</td>
<td>Applied Neuromuscular and Skeletal Muscle Physiology.</td>
<td>The course will provide students with a thorough understanding of the structure and function of neuromuscular and skeletal muscle physiology. This course will examine mechanisms that regulate skeletal muscle force production and human performance in response to acute and chronic exercise. In addition, advanced laboratory techniques will be introduced. 3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.</td>
<td>3</td>
<td>Standard Letter</td>
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<tr>
<td>ESS 5312</td>
<td>Applied Exercise Metabolism.</td>
<td>This course will provide students with a thorough understanding of exercise metabolism. Students will develop advanced knowledge of the influence of various environmental and physiological factors on metabolism during exercise and the impact on physical performance and recovery. Students will also examine the relationships between metabolic factors and chronic diseases. 3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.</td>
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<td>Standard Letter</td>
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<tr>
<td>ESS 5313</td>
<td>Proprioception and Neuromuscular Control in Rehabilitation.</td>
<td>This course provides for an advanced study of the concepts, theories, and current research related to proprioception and neuromuscular control as applied to the prevention, diagnosis, and clinical management of sport-related musculoskeletal injuries, neuromuscular disease, and concussions. Prerequisite: Department approval. 3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.</td>
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<td>Standard Letter</td>
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<tr>
<td>ESS 5314</td>
<td>Biomechanics of Musculoskeletal Injury.</td>
<td>This course focuses on the application of biomechanical principles to the pathoetiology, diagnosis, and physiological capacity for healing of injuries to bone, ligament, tendon, cartilage, and other human tissues, with an emphasis on current injury research. Prerequisite: Department approval. 3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.</td>
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<td>Standard Letter</td>
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ESS 5317. Exercise Physiology.
This leveling course provides an overview of the acute and chronic physiological responses to exercise. Emphasis is on muscle bioenergetics, muscle contractile properties, optimizing human performance through training and supplementation, as well as cardiopulmonary and endocrine responses to exercise. This course does not earn graduate degree credit. Prerequisite: BIO 2430 or equivalent.
Course Attribute(s): Exclude from Graduate GPA|Leveling
Grade Mode: Leveling/Assistantships

ESS 5320. Biomechanics.
This leveling course provides an introduction to the mechanical foundations of anatomical function and human movement. Qualitative and quantitative biomechanical analyses of human movement are introduced to inform the prescription of technique, equipment, and training interventions. This course does not earn graduate degree credit. Prerequisite: BIO 2430 or equivalent with a grade of "D" or better.
Course Attribute(s): Exclude from Graduate GPA|Leveling
Grade Mode: Leveling/Assistantships

This leveling course provides students with an understanding of the physiological, neurological, and psychological factors affecting performance and acquisition of motor skills. Students will examine the structural components underlying the learning of motor skills and draw upon examples from sport, physical activities, and rehabilitation. This course does not earn graduate degree credit.
Course Attribute(s): Exclude from Graduate GPA|Leveling
Grade Mode: Leveling/Assistantships

ESS 5322. Inclusion and Diversity in Physical Activity and Sport.
This course is designed to prepare physical activity and sport educators with knowledge, skills, and strategies to create inclusive learning environments. Culturally responsive teaching strategies that best accommodate the individual needs of children, adolescents, and adults, with diverse ethnic, racial, cultural, socio-economic, physical, and cognitive needs will be emphasized. (MULT).
Course Attribute(s): Multicultural Content
Grade Mode: Standard Letter

Strength and conditioning programming techniques will be the focus, including appropriate assessment and exercise prescription for improved sport performance and injury prevention. This course will include both classroom instruction and hands-on experience utilizing advanced technologies and traditional and non-traditional equipment in the field of strength and conditioning. This course will also cover methods of evaluating athletic abilities to monitor progress of training that will guide exercise prescription. Prerequisite: ESS 5307 with a grade of "C" or better.
Course Attribute(s): Leveling
Grade Mode: Standard Letter

ESS 5324. The Science of Teaching in Health and Human Performance.
The course allows students to receive individualized instruction while working on a professional project with a supervising faculty member. This course will require students to enhance their writing, research, teaching, and/or presentation skills. Repeatable once for credit.
Course Attribute(s): Leveling
Grade Mode: Standard Letter

This course is designed to explore evidence-based curricula across Exercise and Sport Science settings including, but not limited to clinical, strength and conditioning, community physical activity, and sports. Students will gain knowledge and understanding about the curriculum design process and program evaluation using current theory to practice models.
Course Attribute(s): Leveling
Grade Mode: Standard Letter

ESS 5326. Principles of Endurance Training.
This course explores and critiques both established and novel exercise testing and training practices for athletes competing in endurance sports. Emphasis is on demonstrating an ability to develop testing and training procedures using evidence-based methods for endurance athletes.
Course Attribute(s): Leveling
Grade Mode: Standard Letter

Strength and conditioning programming techniques will be the focus, including appropriate assessment and exercise prescription for improved sport performance and injury prevention. This course will include both classroom instruction and hands-on experience utilizing advanced technologies and traditional and non-traditional equipment in the field of strength and conditioning. This course will also cover methods of evaluating athletic abilities to monitor progress of training that will guide exercise prescription. Prerequisite: ESS 5307 with a grade of "C" or better.
Course Attribute(s): Leveling
Grade Mode: Standard Letter

This course explores and critiques both established and novel exercise testing and training practices for athletes competing in endurance sports. Emphasis is on demonstrating an ability to develop testing and training procedures using evidence-based methods for endurance athletes.
Course Attribute(s): Leveling
Grade Mode: Standard Letter

ESS 5329. Motor Learning.
This leveling course provides students with an understanding of the physiological, neurological, and psychological factors affecting performance and acquisition of motor skills. Students will examine the structural components underlying the learning of motor skills and draw upon examples from sport, physical activities, and rehabilitation. This course does not earn graduate degree credit.
Course Attribute(s): Exclude from Graduate GPA|Leveling
Grade Mode: Leveling/Assistantships

ESS 5344. The Science of Teaching in Health and Human Performance.
This course is designed to enhance instructional skills for professionals working in educational, sport, clinical, and community settings. Students incorporate evidence-based instructional practices and assess teaching using systematic, reliable, and valid measures. Students will be able to apply course concepts to implement effective instruction in diverse venues.
Course Attribute(s): Leveling
Grade Mode: Standard Letter

A study of research methods related to techniques for searching the professional research literature, understanding, planning, and conducting professional research projects, as well as development of skills for writing research proposals related to human performance.
Course Attribute(s): Leveling
Grade Mode: Standard Letter

ESS 5347. Independent Study in Exercise Science.
The course allows students to receive individualized instruction while working on a professional project with a supervising faculty member. This course will require students to enhance their writing, research, teaching, and/or presentation skills. Repeatable once for credit.
Course Attribute(s): Leveling
Grade Mode: Standard Letter

This course is designed to explore evidence-based curricula across Exercise and Sport Science settings including, but not limited to clinical, strength and conditioning, community physical activity, and sports. Students will gain knowledge and understanding about the curriculum design process and program evaluation using current theory to practice models.
Course Attribute(s): Leveling
Grade Mode: Standard Letter
ESS 5354. Developmental Sports Education: Youth Participants.
This course is designed to provide sport educators with theory, research, and application strategies to implement developmentally appropriate sports programs for youth participants. Social, psychological, pedagogical, philosophical, and physical variables impacting youth in sport are examined. Emphasis is placed on promoting positive youth development by applying evidence-based practices.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

This course is designed to provide sport educators with theory, research, and practical strategies to implement developmentally appropriate sports programs for high-level athletes. Psychological, social, and physical aspects related to athletes’ success and well-being are examined. Research on coaching effectiveness is also explored with emphasis on applying evidence-based practices.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

A study of quantitative statistical methods for planning and conducting experimental and correlational research, as well as techniques for statistical data analysis and interpretation applicable to health and human performance.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

ESS 5398. Internship in Exercise and Sports Science.
This 240-hour internship provides students with work-related experience with children, adults, older individuals, or athletes in exercise settings. Students are provided an opportunity to prescribe and supervise age- and fitness-appropriate exercise programs and perform exercise tests. Prerequisite: ESS 5306 with a grade of "C" or better.
3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.
Grade Mode: Standard Letter

ESS 5399A. Thesis.
This course represents a student’s initial thesis enrollment. No thesis course credit is awarded until the student has completed the entire thesis required in ESS 5399B. Prerequisites: ESS 5346 and ESS 5356 all with a grade of "C" or better.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Credit/No Credit

ESS 5399B. Thesis.
This course represents a student’s continuing thesis enrollment. The student continues to enroll in this course until the completed thesis is submitted for binding. Prerequisite: ESS 5399A.
5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Credit/No Credit

ESS 5599B. Thesis.
This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the completed thesis is submitted for binding. Prerequisite: ESS 5399A.
5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Credit/No Credit

ESS 5624. Principles and Practices for Teaching Physical Education.
This is a leveling class for graduate students pursuing teaching certification in physical education. Particular emphasis is placed on methods of teaching physical education. This course does not earn graduate degree credit. Departmental Approval required.
6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Exclude from Graduate GPA|Leveling
Grade Mode: Leveling/Assistantships

ESS 5698. Internship in Exercise and Sports Science.
This full-time internship provides students with a minimum of 480 hours of field experience. Students will work with children, adults, older individuals, or athletes in exercise or health care settings, and prescribe and supervise age and fitness appropriate exercise programs and perform comprehensive health-related assessments.
6 Credit Hours. 0 Lecture Contact Hours. 40 Lab Contact Hours.
Grade Mode: Standard Letter

ESS 5999B. Thesis.
This course represents a student’s continuing thesis enrollment. The student continues to enroll in this course until the completed thesis is submitted for binding. Prerequisite: ESS 5399A.
9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Credit/No Credit