KINESIOLOGY, MS

Mission
The mission of the Department of Kinesiology at Texas A&M University-Corpus Christi is to prepare qualified practitioners in athletic training, exercise science-related industries, physical education, sport management, pre-allied health disciplines, and sport-science conditioning in the South Texas region and beyond. Faculty are committed to helping students achieve a market-ready status by implementing high-impact teaching practices, engaging in active scholarship and research, and performing service to the university, professions, and larger community.

Program Description

Program Description and Purpose
The Master of Science in Kinesiology with an emphasis in Sport Science is designed to prepare professionals in the multi-faceted disciplines of athletic performance, strength and conditioning, sport coaching, allied health, fitness and quality of life. These disciplines include, but are not limited to, the application and in-depth study of biomechanics, exercise physiology, leadership/management of sport, motor performance, nutrition, assessment of sport performance, sport psychology, and strength & conditioning. Thus a major purpose of this program is to bridge the gap between science and sports as well as preparation for advanced research (e.g., Ph.D.). The program is internationally recognized by the National Strength and Conditioning Association (NSCA) as an Education Recognition Program (ERP) that maintains the educational guidelines required by the NSCA. The program features a vibrant community of scholars that are nationally and internationally recognized in the sport science discipline. Students have the choice of three degree options:
1. Non Thesis/Research Project,
2. Non Thesis/Comprehensive Exams, or

Please see the course catalog for a full description of the expectations of these options. Course delivery options include: traditional, online, and hybrid and a complete online degree program is available.

Program Delivery
The Master of Science in Kinesiology is available in two delivery options:
1. Online - Courses are delivered 100% online by the nationally recognized and accredited program. All graduate faculty are fully certified online instructors;
2. Hybrid - Courses are delivered by a combination of traditional face to face, hybrid, and online courses.

Customizing the Program
The program is specifically designed with a sport science emphasis. Program goals (Student Learning Outcomes), curriculum design and much graduate faculty research focuses on the science behind improving athletic/sport performance. However, the program offers ample flexibility for students to customize their degree to fit their specific career goals. Regardless of the thesis or non-thesis option, students have an array of elective kinesiology and non-kinesiology course options to choose from to personalize their degree plan. This may be further augmented by internships, independent study, and research projects.

Careers
This program prepares individuals for vocations as sport scientists and strength & conditioning coaches/trainers. The degree design also contributes to the professional development of tactical strength & conditioning trainers, certified physical education teachers, sport coaches, allied health professionals, as well as managers of sport. Finally, the program prepares candidates for sport science certifications from professional organizations such as the National Strength & Conditioning Association, American College of Sports Medicine, and other professional agencies.

Impact
The emphasis of sport science in this degree program is designed to improve sport/human performance through applied research and practice.

The program features Sport Science Research Labs (Exercise Physiology; Biomechanics; Motor Learning/Development; and Athletic Training) in Island Hall. These labs have state of the art equipment/hardware/software that students can use in class and with their research when applicable. Students also have opportunities to be involved in clinics, continuing education programs, and sport science activities that are facilitated by the Department of Kinesiology. These include those that focus on improvement of athletic performance, inhibitors of sport performance, and the impact of disease and disability/injury on health and well-being as well as the influence on sport performance.

Student Learning Outcomes
Students will:
• Demonstrate theoretical and practical knowledge in the field of sport science.
• Demonstrate knowledge and professional leadership skills in relation to the field of sport science.
• Produce transformational sport science and sport performance research by applying the principles of the scientific method and statistics to collect, analyze, and interpret sport science-related data.
• Apply the principles of sport physiology, sport biomechanics, and motor development in designing appropriate strength and conditioning programs for clients of various populations.
• Apply selected principles of psychology and sociology to improve human performance.

Academic Standards
Students pursuing a Master of Science Degree in Kinesiology must maintain the following standards:
1. A cumulative GPA of 3.0 or better.
2. Only two courses with grades of C can be applied to the degree.
3. No course with a grade below a C will be applied toward a degree.
4. All requirements, including coursework at Texas A&M University–Corpus Christi and transfer credit coursework, must be completed within seven (7) calendar years from the date of initial enrollment in coursework.

Course Sequencing
Students must take KINE 5307 Research Design in Kinesiology (3 sch) and KINE 5311 Statistics in Kinesiology (3 sch) prior to the Capstone Experience - Graduate Research Project.
For Additional Information
Website:
http://gradschool.tamucc.edu/degrees/education/kinesiology.html

Campus Address:
Island Hall, Suite 351
Phone (361) 825-6072

Mailing Address:
Kinesiology Graduate Committee
Chair
Department of Kinesiology
Texas A&M University–Corpus Christi
6300 Ocean Drive, Unit 5820
Corpus Christi, TX 78412-5820

Admission Requirements

Students are eligible to pursue graduate-level course work in Kinesiology if they meet the University and COEHD graduate admission requirements as specified in the Graduate Policies and Procedures section of this catalog. Additional kinesiology requirements and restrictions are listed below:

1. Applicants whose undergraduate major or minor is not Kinesiology and/or do not have equivalent undergraduate coursework are highly encouraged to take undergraduate prerequisite courses for KINE 5311 Statistics in Kinesiology (3 sch), KINE 5312 Sport Physiology (3 sch), and KINE 5327 Sport Biomechanics (3 sch).

2. If an applicant’s GPA is below 3.0 in their last sixty hours, they may be admitted under “conditional” status. In such cases, the department will follow the procedures that are outlined in the catalog for the University and the College of Education and Human Development.

The kinesiology graduate program committee evaluates all applications and makes admission decisions.

Transfer of Graduate Credits

No more than nine hours of graduate level study may be transferred from another institution to a student’s degree plan. These hours must be from accredited institutions of higher education and recommended by the Kinesiology program graduate committee. No course with a grade of less than ‘B’ will be accepted as transfer credit.

Program Requirements

Option I-Non-Thesis Graduate Project

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<th>Code</th>
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<tr>
<td>KINE 5307</td>
<td>Research Design in Kinesiology *</td>
<td>3</td>
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<tr>
<td>KINE 5308</td>
<td>Leadership in Kinesiology *</td>
<td>3</td>
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<td>KINE 5311</td>
<td>Statistics in Kinesiology *</td>
<td>3</td>
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<tr>
<td>KINE 5312</td>
<td>Sport Physiology *</td>
<td>3</td>
</tr>
<tr>
<td>KINE 5327</td>
<td>Sport Biomechanics *</td>
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Required Courses

Select at least three of the following: (additional courses can be utilized as electives below)

KINE 5306  Sport Nutrition *

Option II-Non-Thesis Comprehensive Exam

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<td>KINE 5327</td>
<td>Sport Biomechanics *</td>
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Required Courses

Select at least four of the following: (additional courses can be utilized as electives below)

KINE 5306  Sport Nutrition *

Applied Electives

Capstone Experience - Graduate Research Project in Kinesiology
The research project option is designed for students that want to gain more knowledge about a specific topic area through the scientific process that goes well beyond what they can achieve through an academic course. The research project is a less intense version of the thesis and more of a pilot study. The project should be completed in one semester with the possibility of more time depending upon the student’s topic and design. This is an involved process and the final product includes:

1. Journal Abstract;
2. Journal Manuscript (choice of journal is decided by project chair);
3. Poster Presentation; and
4. Power Point Presentation (Defense).
Graduate-level courses to be selected with permission of faculty advisor. Choices may include, but are not limited to the Kinesiology courses listed above.

- Online offering

### Comprehensive Exam
The purpose of the comprehensive exam is for master's students to demonstrate the scholar-practitioner approach to a particular problem of practice in kinesiology as synthesized across core and research methods courses.

### Option III- Thesis Option
 Thesis option requires departmental approval.

#### Core Courses
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#### Required Courses
Select at least three of the following: (additional courses can be utilized as electives below)

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<td>KINE 5313</td>
<td>Athletic Testing *</td>
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<td>KINE 5314</td>
<td>Principles of Strength and Conditioning *</td>
<td>3</td>
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<tr>
<td>KINE 5315</td>
<td>Concepts in Sport Business</td>
<td>3</td>
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<tr>
<td>KINE 5325</td>
<td>Program Design for Resistance Training *</td>
<td>3</td>
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<tr>
<td>KINE 5338</td>
<td>Motor Development in Sport *</td>
<td>3</td>
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<td>KINE 5340</td>
<td>Sport Psychology *</td>
<td>3</td>
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<tr>
<td>KINE 5390</td>
<td>Professional Seminar</td>
<td>3</td>
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<tr>
<td>KINE 5394</td>
<td>Professional Field Experience *</td>
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#### Applied Electives
Graduate-level courses to be selected with permission of faculty advisor. Choices may include, but are not limited to the Kinesiology courses listed above.

#### Capstone Experience
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<td>KINE 5698</td>
<td>Thesis in Progress</td>
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- Online offering

#### Capstone Experience - Thesis in Progress
The thesis option is designed for students that want to gain extensive experience in research and/or greater knowledge about a specific topic area. It is also designed for those that anticipate more advanced research (e.g., Ph.D.).

The thesis option is not allowed for all students. Interested students must apply for the thesis option after the successful completion of KINE 5307 Research Design in Kinesiology (3 sch)*. Students are required to prepare a proposal for their thesis and defend that proposal for the graduate committee. If accepted the student may proceed with the thesis option. Students whose proposal is not accepted must pursue the Graduate Research Project option.

The thesis will require a minimum of two semesters of work and possibly more depending upon the student’s topic and design. This is a very involved process and though the product is the same as in the Research Project, the rigor and expectation is much higher, thus it is six semester hours of credit. The final product includes:

1. Journal Abstract;
2. Journal Manuscript (choice of journal is decided by thesis chair);
3. Poster Presentation; and
4. Power Point Presentation (Defense).

### Courses

#### KINE 5301 History and Philosophy of Kinesiology
3 Semester Credit Hours (3 Lecture Hours)
A study of the general historical and philosophical perspectives and influences as they relate to kinesiology. This course will also explore the historical influence of gender and multicultural (diversity) issues that impacted philosophical perspectives in the field of kinesiology and the study of movement over time.

#### KINE 5306 Sport Nutrition
3 Semester Credit Hours (3 Lecture Hours)
This course is designed to provide scientific evidence for the use of nutrient ingestion to enhance sport performance and maintain optimal health. Special emphasis will be placed on the chemical and biological changes caused by the ingestion of specific nutrients. In this course the student will learn to utilize current nutrition research to enhance the athlete’s energy systems within various categories of sport.

#### KINE 5307 Research Design in Kinesiology
3 Semester Credit Hours (3 Lecture Hours)
The application of fundamental research methods to the design and development of a research proposal in kinesiology.

#### KINE 5308 Leadership in Kinesiology
3 Semester Credit Hours (3 Lecture Hours)
This course assists students in identifying and defining leadership in formal and non-formal kinesiology settings. The theoretical foundations interweaves: (a) formation of self-identification and self-awareness as a leader, (b) development of applied knowledge and skills, and (c) real-world application of effectively functioning as both a follower and a leader, thus developing a more complete and holistic leadership framework.

#### KINE 5310 Sport in Society
3 Semester Credit Hours (3 Lecture Hours)
A perspective of the nature and value of the study of the sociological aspects of sport. This course is designed to enhance the knowledge and methodology of research in sport sociology. Also explores emerging social issues that are germane to a sports environment and discusses solutions to those problems.

#### KINE 5311 Statistics in Kinesiology
3 Semester Credit Hours (3 Lecture Hours)
A study of basic statistical concepts and their application to research problems in kinesiology. Topics include issues related to descriptive and inferential statistics. Recommended

**Prerequisite:** KINE 4311.
KINE 5312  Sport Physiology
3 Semester Credit Hours (3 Lecture Hours)
This course expands basic undergraduate exercise physiology principles and focuses on the role of exercise physiology in sports performance, applied and research settings. Recommended

KINE 5313  Athletic Testing
3 Semester Credit Hours (3 Lecture Hours)
An advanced assessment course designed to provide techniques for physiological, athletic, and sport-specific tests associated with athletic performance. Test selection, test administration, data analysis, and appropriate evaluation techniques will be presented.

KINE 5314  Principles of Strength and Conditioning
3 Semester Credit Hours (3 Lecture Hours)
The purpose of this course is to provide theoretical and practical knowledge of the physiological, biomechanical, and administrative aspects of designing and supervising strength and conditioning programs for various populations.

KINE 5315  Concepts in Sport Business
3 Semester Credit Hours (3 Lecture Hours)
An applied course designed to provide macro business theories and techniques specifically for the sport professional. Sport business models, financial systems, managerial procedures, and promotion concepts are addressed.

KINE 5316  Finance Management in Sport
3 Semester Credit Hours (3 Lecture Hours)
An in-depth analysis of the various tools, techniques, ratios, formulas, and other finance related information students will need to understand and master in order to handle complex financial concerns in the workplace. The sport industry is a multi-billion dollar industry that generates revenue from areas ranging from youth sport to facility construction and much more. This course will examine how money helps drive sport and facility businesses and why those who can understand and apply financial management techniques will be more capable employees.

KINE 5317  Global Perspectives in Sport
3 Semester Credit Hours (3 Lecture Hours)
This course is an interdisciplinary examination of sport as a global phenomenon. Historical, cultural, economic and governance perspectives are considered.

KINE 5318  Sport Media and Broadcast Relations
3 Semester Credit Hours (3 Lecture Hours)
This course introduces students to the field of sport communication. They will learn about career options in this field. The course covers management, mass media, support services, entertainment and ancillary opportunities. In addition, this course introduces students to the process and practices of business communication through a conceptual and practical internal and public relations approach. Students are required to complete a number of writing and oral communication assignments including: 1) planned writing assignments to enhance students’ writing skills, 2) improved writing skills as a course objective, 3) structured written instructions and evaluation criteria for assignments, 4) detailed instructions in conceiving, organizing, and presenting written material in ways appropriate to sport management organizations, 5) revised and peer reviewed assignments, and 6) graded written assignments as a major part of the grade.

KINE 5325  Program Design for Resistance Training
3 Semester Credit Hours (3 Lecture Hours)
This course presents information on the process of designing scientifically based resistance training programs, modifying and adapting programs to meet the needs of special populations, and understanding how designing programs works in the real world.

KINE 5327  Sport Biomechanics
3 Semester Credit Hours (3 Lecture Hours)
This course provides an exploration of movement kinetics and kinematics through the framework of sports, physical activity, and associated injury mechanisms. Further emphases will be on identifying viable research questions and appropriate methods (including instrumentation) to pursue those questions. Recommended

KINE 5330  Sport Promotion, Sponsorship and Licensing
3 Semester Credit Hours (3 Lecture Hours)
This course is designed to provide the sport manager with an understanding of the main marketing issues within the sport industry. Special emphases are placed on the application and assessment of marketing sport within the private and public sectors.

KINE 5338  Motor Development in Sport
3 Semester Credit Hours (3 Lecture Hours)
This course address the theory and application of human motor development as it relates to the acquisition of motor skills, with a focus on sport performance. The course emphasizes how professionals in the field of sport science should utilize this understanding to serve various client populations throughout the lifespan.

KINE 5340  Sport Psychology
3 Semester Credit Hours (3 Lecture Hours)
A study of the theory and application of psychology as it applies to human behavior in sport and physical activity.

KINE 5390  Professional Seminar
3 Semester Credit Hours
Contemporary issues in Kinesiology: topics vary with professional identification of participants.

KINE 5394  Professional Field Experience
3 Semester Credit Hours
A graduate-level field-based experience to provide the student the opportunity to apply knowledge and theory related to exercise and sport science. This course is an elective course and listed in the Supplemental Course section of the degree plan. This course may also be taken at any time during the student’s degree with approval of their faculty mentor.

KINE 5397  Graduate Research Project in Kinesiology
1-3 Semester Credit Hours (1-3 Lecture Hours)
The research project is an alternative to the thesis and three semester hours of credit. The project should be completed in one semester of work with the possibility of more time depending upon the student’s topic and design. This is an involved process and the final product includes: 1) Journal Abstract; 2) Journal Manuscript (choice of journal is decided by project chair); 3) Poster Presentation; and 4) Power Point Presentation (Defense). Unlike the thesis, all students that are fully accepted to the program automatically are eligible for the research project. Prerequisite: KINE 5307 and 5311.

KINE 5690  Professional Seminar
1-6 Semester Credit Hours (1-6 Lecture Hours)
PROFESSIONAL SEMINAR Contemporary issues in Kinesiology: topics vary with professional identification of participants.
KINE 5696 Directed individual Study
1-6 Semester Credit Hours
Thesis in progress requires departmental approval. Investigative study on selected problems by students with particular needs. May be repeated when topics vary.

KINE 5698 Thesis in Progress
3-6 Semester Credit Hours (3-6 Lecture Hours)
Students are required to successfully complete a thesis under the direction and supervision of their thesis chair and committee members. The thesis will require a minimum of two semesters of work and possibly more depending upon their topic and design, thus students will be allowed to register for three hours each semester. The thesis option is designed for students that want to gain extensive experience in research and/or greater knowledge about a specific topic area. It is also designed for those that anticipate more advanced research (e.g., Ph.D.). Upon completion of their work there is a thesis defense. The final product includes: 1) Journal Abstract; 2) Journal Manuscript (choice of journal is decided by thesis chair); 3) Poster Presentation; and 4) Power Point Presentation (Defense).
Prerequisite: KINE 5307 and 5311.