SCHOOL OF HUMAN PERFORMANCE AND LEISURE SCIENCES

Darlene Kluka, Ph.D., D.Phil., Dean
Rev. Carl R. Cramer, Ed.D., Associate Dean

Faculty: Amasay, Cramer, Cremades, Egret, Hicks, Kluka, Kuo, Ludwig, Mier, Nixon, Rosenberg, Shapiro, Simpson, Tamulevicius, Tashman, Workman

The School of Human Performance and Leisure Sciences (HPLS) includes the Department of Intercollegiate Athletics (ICA), the Department of Sport and Exercise Sciences (SES), and the Office of Campus Recreation and Wellness (CRW).

Barry University’s School of Human Performance and Leisure Sciences is located in the Health and Sports Center. The Health and Sports Center houses two departments (i.e., ICA and SES), within the School of HPLS and is fully equipped with state-of-the-art equipment in an Athletic Training Room and research-oriented Human Performance Laboratory, Performance Behavior Laboratory, Athletic Training Laboratory, and a Biomechanics Laboratory, an arena for basketball and volleyball, a Strength and Conditioning Room, classrooms, locker rooms, and offices. A Fitness Center is located in the Landon Student Union. There are quality exterior facilities for baseball, softball, soccer, and tennis, along with multipurpose recreational fields. An outdoor pool, a sand volleyball court, a SCUBA dive locker, and an aerobics studio, complete the sports complex.

The Department of Sport and Exercise Sciences offers professional preparation in Sport Management for graduate students seeking advanced study in the management of sport-related areas, recreational programs, and fitness and wellness centers. In addition, advanced study is offered for students seeking generalized knowledge in Movement Sciences, including options or specialized study in Injury and Sport Biomechanics, Exercise Physiology, and Sport, Exercise & Performance Psychology. Actual requirements and descriptions for each graduate degree program and each area of specialization are discussed in more detail further in this section under the Department of Sport and Exercise Sciences and the respective academic disciplines.

VISION AND MISSION

The Vision of HPLS

The School of Human Performance and Leisure Sciences advances human potential through the integration of mind, body, and spirit in pursuit of excellence.

The Mission of HPLS

The School of Human Performance and Leisure Sciences serves local and global communities through scholarship and professional practices in science, sport, recreation, and wellness.

The School of Human Performance and Leisure Sciences (HPLS) is committed to providing varied educational experiences through its three distinct units:

• DEPARTMENT OF SPORT & EXERCISE SCIENCE: (1) by offering quality academic programs that prepare qualified graduate majors for sport-related careers in Athletic Training, Biomechanics, Exercise Physiology, Sport, Exercise & Performance Psychology and Sport Management; (2) by offering qualified graduate students advanced professional studies in Movement Science and Sport Management; and (3) by providing instructional opportunities for acquiring wellness, fitness, and leisure skills in numerous sport and recreational offerings.

• DEPARTMENT OF INTERCOLLEGIATE ATHLETICS: by striving for competitive excellence for men and women in 12 varsity sport offerings while also achieving academic excellence in the classroom.

• OFFICE OF CAMPUS RECREATION: by providing students, faculty, staff, and alumni with a broad selection of sport, wellness/fitness, and recreational opportunities.
DEPARTMENT OF INTERCOLLEGIATE ATHLETICS

Michael L. Covone, M.S., Director of Athletics
Bridget Lyons, Ph.D., Sr. Associate Director of Athletics/SWA
Jamie Carrig, M.S., Associate Director of Athletics
Alison Fitzgerald, J.D., Assistant Director of Athletics

MISSION AND PURPOSE

The mission of intercollegiate athletics (ICA) department and its programs is to provide opportunities for those with outstanding athletic abilities to excel in intercollegiate sport participation while completing their degrees in higher education at Barry University. As the most visible and prestigious program combining academic and athletic excellence on campus, the ICA departmental mission is a vital part of overall student life at Barry University.

ICA fulfills its role within the mission of Barry University by complementing classroom instruction. Each sport program integrates body, mind and spirit in healthy athletic competition that promulgates the university’s core commitments: teamwork, fair play, self-discipline, search for knowledge and truth through intercollegiate sport competition, and social justice involving experiences with team members of differing nationalities and ethnic backgrounds. A caring environment is provided by assuring the academic, physical, emotional and social welfare of our student-athletes through the leadership provided by a well-qualified teaching/professional staff, academic support services, comprehensive health care and coverage, and safe playing and practice conditions.

All athletic activities and events are actively published and promoted to also elicit involvement and support from the community. In return, student-athletes are encouraged to participate in global through local civic and charitable events. Additionally, ICA serves as a vehicle by which the university extends its presence in a variety of communities. Staff, coaches, and student-athletes must, therefore, display a professional decorum suitable for very visible ambassadors of Barry University. Furthermore, the intercollegiate athletics program will be operated within strict adherence to the published rules of the NCAA and the Sunshine State Conference (SSC) in order to assure that the university’s status within the community always remains a positive one.

As an NCAA Division II member school, Barry University furthers the university’s commitment to excellence by providing a nationally competitive intercollegiate athletics program that offers national recognition for student-athletes. It is home to the 1989, 1992, and 1993 NCAA Champions in Women’s Soccer, the 1995, 2001, and 2004 NCAA Champions in Women’s Volleyball, the 2007 NCAA Champions in Men’s Golf, the 2010 NCAA Champions in Men’s Tennis, and the 2011 NCAA Champions in Women’s Tennis. The ability of Barry’s female and male student-athletes to balance the demands of high level athletic participation with outstanding academic success ranks the university as one of the top academic/athletic institutions of its kind in the United States. The Barry University community is proud to currently boast a reported NCAA Academic Success rate of 86%.

To participate in intercollegiate athletics as an entering freshman with no previous full-time college attendance, the student-athlete must be admitted to Barry University and must meet conference and NCAA eligibility requirements, including certification by the NCAA eligibility center. These requirements include high school graduation with a minimum cumulative grade-point average of 2.000 (based on a maximum 4.000) in a successfully completed core curriculum of at least 14 academic courses (per NCAA Bylaw 14.3.1.1), and a combined SAT score of 820 (if taken on or subsequent to April 1, 1995), or a minimum sum score of 68 on the ACT. These required SAT or ACT scores must be achieved under national testing condi-
tions on a national testing date. The *NCAA Guide to International Academic Standards for Athletics Eligibility* contains the acceptable credentials applicable to foreign academic records that satisfy the graduation and core-curriculum requirements for initial eligibility specified in NCAA Bylaw 14.3.

All transfer students must meet the institution’s general admissions requirements, as well as NCAA and Sunshine State Conference transfer rules in order to practice and compete in intercollegiate athletics.

In order to maintain eligibility and continue participation, all student-athletes are required by the NCAA to be in good standing with the university and, as per NCAA Bylaw 14.4, must be making satisfactory progress toward a Baccalaureate degree.

All student athletes must provide proof of adequate health insurance and pass the university’s medical clearance examination prior to participation in athletics. If proof of insurance is not presented, the student-athlete will be issued student health insurance through the University and billed accordingly. Any eligible student may try out for any of the twelve sports by contacting the appropriate head coach prior to the opening of the season.

### Coaching Staff:

**MEN’S:**
- BASEBALL
- BASKETBALL
- GOLF
- SOCCER
- TENNIS

**WOMEN’S:**
- BASKETBALL
- ROWING
- GOLF
- SOCCER
- SOFTBALL
- TENNIS
- VOLLEYBALL

Marc Pavao, M.S.
Cesar Odio, M.S.
Jimmy Stobs, B.A.
Steve McCrath, M.S.
George Samuel, Ph.D.
Bill Sullivan, M.S.
David Sanderson, B.A.
Shannon Sykora, B.A.
Fred Jungemann, B.A.
Danielle Penner, M.S.
Avi Kigel, M.S.
Steve Hendricks, M.S.
DEPARTMENT OF CAMPUS RECREATION AND WELLNESS

Ed Londono, M.S., Director
Dan Hill, M.S., Fitness Center Director
Lorean Mapp, M.S., Wellness Coordinator
Andrew Havens, M.S., Intramural Coordinator

The Department of Campus Recreation and Wellness (CRW) provides students, faculty and staff with a broad selection of structured sport, wellness/fitness, and recreational opportunities that promote the development of active lifetime patterns for health maintenance, weight management, stress reduction, chronic disease prevention, and long-term well-being.

These programs support an integrated body, mind, and spirit approach that rounds out the total campus experience for students by providing healthy and active alternatives for out-of-class leisure hours, as well as social opportunities for faculty and staff to engage in exercise and wellness activities.

WELLNESS ACTIVITIES
Aerobic Exercise
Boot Camp
Cardio Kickboxing
Spinning
Pilates
Tai Chi
Yoga
Zumba

INTRAMURAL SPORTS (all co-ed)
Archery
Basketball
Flag Football
Soccer
Softball
Dodgeball
Volleyball
Kickball
Whiffle Ball
GRADUATE PROGRAM REQUIREMENTS AND POLICIES

The general policies listed below apply to all graduate programs offered within the School of Human Performance and Leisure Sciences. Additional requirements specific to the major may be found under the respective graduate program description in the SES Department listing. Graduate students may attend full-time or part-time. A full-time graduate course load is nine (9) credit hours per semester or the completion of eighteen (18) credit hours in a calendar year.

Graduate Admission Criteria:
— Acceptance by the University’s Office of Graduate Admissions*; and
— A bachelor’s degree from a regionally accredited or internationally recognized institution, as verified by two (2) official transcripts; and
— Sufficient undergraduate preparation or life experience, as determined by the Graduate Program Director and Associate Dean; and
— Satisfaction of additional entrance requirements or minimal test scores on national examinations, if specified for particular degree programs; and
— Two (2) letters of recommendation; and
— A short essay describing personal career goals and how a graduate degree from Barry will help fulfill these goals.

* Non-degree seeking or special status, as determined by the Office of Graduate Admissions, require HPLS Dean approval and do not guarantee admission to a degree program. Enrollment is limited to six (6) to nine (9) graduate credits. Non-degree acceptance will only be changed to regular degree-seeking status upon review and official notification of full acceptance from the Dean and the Director of Graduate Programs. Grades of ‘B’ or better are required in all prior graduate coursework. Submission of all documentation required by the Office of Graduate Admissions and/or the respective degree program is also necessary. The student will also receive notification in writing from the Dean and the Director of Graduate Programs should the decision be dismissal from the program or extension of current status beyond the nine (9) credit hours for a specified period and under certain conditions.

Transfer Credits:
A maximum of six (6) hours of acceptable credits may be transferred from another accredited/internationally listed college or university toward a graduate degree from Barry University. This is subject to approval by the HPLS Dean, Department Chair, and respective Program Coordinator. Consideration will only be given to graduate level coursework completed within the five (5) year period immediately preceding initial enrollment at Barry. This coursework must be relevant to the discipline and either an A or B grade must have been earned. In addition, remaining credits required for graduation must be earned within seven years of initial enrollment in graduate coursework at Barry University. Credits used to earn a degree at another institution will not be accepted.

Time Limitation/Continuous Registration/Financial Aid:
A maximum of seven (7) years is allowed for completing all degree requirements. Candidates for graduate degrees must be continuously enrolled during the regular academic year in a minimum of 1 credit per term. SES 699 satisfies this requirement if not enrolled in regular coursework applicable towards the degree. A candidate must be enrolled in at least 1 graduate credit hours during the term of expected graduation. Students receiving loans must enroll in four credits each term to qualify for loan funding.

Advising:
Students pursuing graduate courses will be assigned an advisor by the Director of Graduate Programs.

Project/Thesis:
All students pursuing M.S. degrees within the School of HPLS are required to complete either a thesis or an internship, with the exception of students in the M.S. in Movement Science Injury and Sport Biomechanics specialization, who are required to complete a written thesis. Students in the M.S. in Movement Science Exercise Physiology specialization select either the “Clinical track”, or the “Sport Performance track”, both of which culminate in either a thesis or an internship. Students in the M.S. in Movement Science Sport, Exercise & Performance Psychology specialization select either the “research” option, which requires the submission of a written thesis at six (6) credit hours, the “applied” option, which involves completion of six (6) credit hours of practicum coursework or the “dual” option which encompasses both the research and applied options.
Students in the Sport Management program have the option of completing an intensive internship or submitting a written thesis. Students selecting the thesis option are required to take an additional quantitative or qualitative research course, SES 624 (Advanced Statistics in Sport and Exercise Science) or SES 630 (Qualitative Research in SES) for three (3) credit hours, which replaces the elective requirement (i.e., 3 cr. hrs.) for thesis option students.

The thesis option is strongly recommended in order to refine research skills for those seeking further graduate study. Each student is required to provide three (3) bound copies of the approved master’s thesis/project report, one to remain in the department, one for the thesis advisor, and one to remain in the library. Additional copies are usually provided as a courtesy to other thesis committee members. The completed thesis must be sent by the student to UMI for micro-filming and copyrighting.

The concentrated internship requires submission of a written, comprehensive project at the conclusion of the experience. Students are strongly encouraged to have all coursework completed prior to participating in the internship option AND must have passed a comprehensive written and/or oral examination (i.e., “comps”) prior to being approved for the internship. Exceptions to this policy may only be made upon recommendation from the student’s Graduate Committee and approval from the Director of Graduate Programs. Prior to being approved for a project/internship, a formal proposal must be submitted to the student’s Internship Coordinator detailing the duties associated with the project, the name(s) and title(s) of the individual(s) providing on-site, daily supervision; a signed statement from the agency or organization indicating willingness to participate in the internship; and the expected learning outcomes from this project as they relate to the major and/or area of concentration. A formal contract from the University with the assigned agency sponsoring the internship will subsequently follow.

Comprehensive Examinations:

All students choosing the internship option are expected to pass a comprehensive oral and/or written examination prior to being approved for the internship. Students choosing the thesis option are not required to take a comprehensive examination.

Assistantships:

A limited number of graduate assistantships may be available. Inquiry should be made through the Associate Dean as to type and availability.

Academic and Graduation Requirements:

All students must maintain a minimum graduate GPA of 3.0 and are limited to a maximum of six credit hours of C grades. (Grades below C are unacceptable for continued enrollment.) Any student who fails to meet these requirements is subject to departmental review and academic jeopardy, including dismissal from the program. Graduation requires a minimum 3.0 GPA.

A student may pursue elective coursework to complement a specialization or interests with prior approval from one’s Graduate Committee.

The SES faculty reserve the right to accept, retain, and recommend for graduation only those graduate students who, in addition to satisfying stipulated academic requirements, meet personal and professional standards established by national governing bodies. Admission to graduate programs in the School of HPLS does not guarantee progression to the internship, thesis, certification, or graduation.

Grading System:

The School of HPLS utilizes a plus/minus grading system. The use of this system is at the prerogative of the faculty member for each course. See Academic Information for more information and refer to the course syllabus.

THE DEPARTMENT OF SPORT AND EXERCISE SCIENCES

Kathryn Ludwig, Ph.D., Department Chair

The Department of Sport and Exercise Sciences (SES) offers three graduate degree programs:

MASTER OF SCIENCE IN MOVEMENT SCIENCE (M.S.) with a choice of:
Exercise Physiology Specialization
Injury and Sport Biomechanics Specialization
Sport, Exercise, & Performance Psychology Specialization
OR
the “General” option
MASTER OF SCIENCE IN SPORT MANAGEMENT (M.S.)
MASTER OF SCIENCE IN SPORT MANAGEMENT/MASTER OF BUSINESS ADMINISTRATION (M.S./M.B.A.) Dual Degree Program with Andreas School of Business (See M.B.A. degree program for complete details on prerequisites and admission as well.)

Individuals holding the bachelor’s degree out-of-field who are interested in pursuing the M.S. degree in Movement Science with an Injury and Sport Biomechanics-Athletic Training specialization, but who lack
the required coursework and clinical hours leading to NATA certification, should refer to the section on the athletic training track.

MISSION AND PURPOSE

Sport and Exercise Sciences are part of a liberal education and are gleaned from traditional parent disciplines in the humanities; biological, behavioral, and sociological sciences; and the arts. This format of scientific inquiry sharpens students’ perspectives about themselves and the world around them and develops new and creative ways of thinking. It is also the foundation upon which professional practice knowledge, essential for success in a career, is constructed. We aspire to be the department of choice for students majoring in sport and exercise sciences who desire an international premium ethically-based and market-related education in a diverse, caring and nurturing environment with committed and professionally competent faculty who excel in teaching, service and scholarship. We strive to create an environment conducive to the scholarly development and growth of faculty and provide opportunities for professional and personal growth. We engage in top quality education based upon critical and independent thinking that facilitates young professionals to become successful in their chosen fields upon graduation. In the Catholic intellectual tradition, we facilitate sport and exercise sciences content and experiential growth in each student through the development of confidence and competence while offering the appeal of a small private University. We contribute to research-based evidence and generate new knowledge in our respective academic fields by producing high-quality research that is locally and internationally relevant and ethically responsible. We strive to reach out locally and internationally to fulfill our social responsibility by facilitating collaborative partnerships that benefit Barry University, faculty and students and our fields of study.

MASTER OF SCIENCE IN MOVEMENT SCIENCE

The purpose of the Master of Science (M.S.) in Movement Science is to prepare qualified students for careers and/or advanced professional study in a variety of exercise-related, sport, and wellness fields. The degree provides a comprehensive selection of options for the practicing professional, the administrator, or the educator seeking advanced study in the movement sciences. Individuals holding positions in athletic training, physical education, coaching, fitness and wellness, exercise physiology, sports medicine, sport sciences, prosthetic design and engineering, physical therapy, occupational therapy, recreation therapy or other allied health and rehabilitation fields can choose from among one of three areas of specialization OR can opt for a general, customized program of studies. Degree preparation will include research-based theory and practical applications with an emphasis on ethical and moral decision-making for leaders. The foundation for the M.S. in Movement Science is kinesiology. Academic preparation focuses primarily on understanding movement, health and fitness, and performance enhancement and integrating this knowledge in various areas of specialization. Although these areas of focus are common to all of the movement science specializations, each achieves these in ways unique to their disciplines – i.e., whether through the prevention and rehabilitation of injury and disease, exercise prescription and fitness assessment, laboratory instrumentation and analysis, proper nutrition, or through appropriate mental training.

The M.S. in Movement Science provides the student with these options:

A. **Choose one of three (3) areas of specialization from among:**
   EXERCISE PHYSIOLOGY
   INJURY AND SPORT BIOMECHANICS
   SPORT, EXERCISE, & PERFORMANCE PSYCHOLOGY
   OR

B. **Choose a non-specialized “General” track** that provides for a personally designed program of advanced study, subject to Graduate Committee approval.

   Admission criteria, as well as academic and graduation requirements, can be found under the School of HPLS and under the respective areas of study.

Movement Science Program Goals

Upon successful completion of the program leading to the Master of Science degree in Movement Science, Movement Science students will demonstrate:

**RESEARCH SKILLS—**

Students will critically examine research methods and designs used in a variety of Movement Science settings, and develop research techniques, including the ability to define research problems, write hypotheses, review and interpret literature, apply research designs, organize, analyze, and present data.

**ETHICAL DECISION MAKING SKILLS—**

Students will demonstrate knowledge of and collectively appraise ethical issues in movement science as they affect individuals, communities, society and movement science professions. Students will also demonstrate the ability to apply an ethical framework to make personal and professional decisions.
**PROFESSIONALISM**—
Students will demonstrate and integrate the roles of a movement science professional while assuming personal responsibility for continuing professional competence and development.

**PRACTICAL/CLINICAL SKILLS**—
Students will demonstrate the competencies that meet the standards for the profession in the application of movement science principles.

**COMMUNICATION SKILLS**—
Students will demonstrate effective oral and written communication skills, including scholarly writing and academic presentations.

**THEORETICAL KNOWLEDGE**—
Students will demonstrate knowledge of, evaluate, and utilize appropriate discipline-related theory within an advanced movement science context.

### Movement Science Curriculum

The M.S. in Movement Science consists of a total of 36 credit hours. This includes 15 credit hours of Movement Science graduate core courses (see below) and a minimum of 21 credit hours of coursework described under each program of study or area of specialization. Students must complete at least one Movement Science course (3 credit hours) from an area of specialization other than the selected discipline.

**NOTE:** Students lacking prior undergraduate coursework in ethics from Barry University will be required to take SES 621. Students seeking admission to the Exercise Physiology and Injury and Sport Biomechanics specializations must complete undergraduate coursework in anatomy and kinesiology or biomechanics prior to admission. Students in the Sport, Exercise, and Performance Psychology specialization and the General option who lack undergraduate coursework in anatomy and kinesiology or biomechanics will be required to complete those courses prior to taking SES 520 or SES 546. Admission criteria can be found under the respective areas of study.

### Movement Science Graduate Program Core (15 credits):

**To satisfy the kinesiology foundation and analysis of human motion component:**

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>SES 520</td>
<td>Biomechanics</td>
<td>3</td>
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<tr>
<td>OR</td>
<td>Qualitative Analysis in Biomechanics</td>
<td>3</td>
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### Exercise Physiology Specialization

The specialization in Exercise Physiology prepares graduates for career opportunities in fitness and wellness, with emphasis on developing professional practice in clinical settings and on exercise physiology research. The Exercise Physiology graduate curriculum offers advanced coursework as well as extensive opportunities for research and clinical practice in the state-of-the-art Human Performance Laboratory. Degree preparation includes a broad exposure to the fitness and wellness industry through site observations, practica and internships. The degree program includes the twelve credit hour core in movement science, fifteen credit hours in Exercise Physiology, and nine credit hours in one of the two Exercise Physiology tracks: Clinical Exercise Physiology or Physiology of Sport Performance. Students have a choice between internship or thesis plan of study within each track.

**To satisfy the ethics component to the University’s mission:**

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>SES 621</td>
<td>Ethical Issues in Sport and Exercise Sciences</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td>Professional Ethics in Sport, Exercise, and Performance Psychology</td>
<td>3</td>
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**To satisfy the research or advanced applied studies component:**

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>SES 616</td>
<td>Research Methodology in SES</td>
<td>3</td>
</tr>
<tr>
<td>SES 689 &amp; 690</td>
<td>Thesis I and Thesis II</td>
<td>6</td>
</tr>
</tbody>
</table>

**EXERCISE PHYSIOLOGY SPECIALIZATION**

The specialization in Exercise Physiology prepares graduates for career opportunities in fitness and wellness, with emphasis on developing professional practice in clinical settings and on exercise physiology research. The Exercise Physiology graduate curriculum offers advanced coursework as well as extensive opportunities for research and clinical practice in the state-of-the-art Human Performance Laboratory. Degree preparation includes a broad exposure to the fitness and wellness industry through site observations, practica and internships. The degree program includes the twelve credit hour core in movement science, fifteen credit hours in Exercise Physiology, and nine credit hours in one of the two Exercise Physiology tracks: Clinical Exercise Physiology or Physiology of Sport Performance. Students have a choice between internship or thesis plan of study within each track.
Admission Requirements

General admission requirements are to be found under School of HPLS Graduate Program Requirements and Criteria. A personal interview arranged with the program’s graduate coordinator and/or department chair may be requested prior to admission or obtaining “degree seeking” status. In addition, a student seeking admission to the Exercise Physiology program must:

- have completed undergraduate courses in exercise physiology, human anatomy, kinesiology or biomechanics, and human physiology.
- receive an acceptable score on the Graduate Records Examination (GRE) and possess an “above average” undergraduate GPA.

(Note: The HPLS Dean reserves the right to establish a minimum undergraduate GPA as well as a minimum GRE score for applicants. GRE applications are available from Barry’s Office of Graduate Admissions.)

Graduation Requirements

Refer to the Master of Science in Movement Science graduation requirements.

Movement Science Graduate Program
Core (15 credits) – see listing 15

Exercise Physiology Course Requirements 15
SES 561 Advanced Exercise Physiology 3
SES 565 Laboratory Techniques in EXP 3
SES 618 Fitness and Wellness Promotion 3
SES 672 Exercise & Energy Metabolism 3
SES 686 Advanced Practicum 3

Students must select one of the following tracks to complete the program requirements:

Clinical Exercise Physiology Track
Course Requirements 6

Internship plan of study
Choice of 2 electives from the following:
SES 537 Sport Psychology 3
SES 541 Clinical Exercise Physiology 3
SES 551 Fitness Assessment and Program Development 3
SES 600 Advanced Studies in Clinical Exercise Physiology 3
SES 625 Motor Learning and Control 3

Thesis plan of study
SES 624 Advanced Statistics for Sport & Exercise Science 3

Choice of 1 elective from the following:
SES 537 Sport Psychology 3
SES 541 Clinical Exercise Physiology 3
SES 551 Fitness Assessment and Program Development 3
SES 600 Advanced Studies in Clinical Exercise Physiology 3
SES 625 Motor Learning and Control 3

Degree Total: 36

OR

Physiology of Sport Performance Track
Course Requirements 6

Internship plan of study
Choice of 2 electives from the following:
SES 537 Sport Psychology 3
SES 551 Fitness Assessment and Exercise Programming 3
SES 563 Applied Physiology of Strength & Conditioning 3
SES 600 Advanced Studies in Sport Physiology 3
SES 625 Motor Learning and Control 3

Thesis plan of study
SES 624 Advanced Statistics for Sport & Exercise Science 3

Choice of 1 elective from the following:
SES 537 Sport Psychology 3
SES 551 Fitness Assessment and Program Development 3
SES 563 Applied Physiology of Strength & Conditioning 3
SES 600 Advanced Studies in Sport Physiology 3
SES 625 Motor Learning and Control 3

Degree Total: 36

B.S. to M.S. Option

Students may opt for the M.S. degree program in Movement Science specializing in Exercise Physiology while completing their undergraduate studies at Barry University. Students may apply for graduate study at the end of the junior year. To be considered for this program they must have achieved a cumulative GPA of 3.00 or better and have strong faculty recommendations. Information on the B.S. to M.S. option is available from the academic advisor or the program director for Athletic Training and Movement Science. (See undergraduate catalog for specific details).
INJURY AND SPORT BIOMECHANICS SPECIALIZATION

The specialization in Injury and Sport Biomechanics combines both theory and practice in preparing students for leadership positions in a variety of careers in sports medicine and biomechanics. These roles include: college/University athletic training, clinic administration, athletic training curriculum clinical education, teaching, coaching, and research and development with specializations in orthopedics (instrumentation and equipment), or movement analysis (gait, injury etiology, and sports performance enhancement). The Injury and Sport Biomechanics Specialization is comprised of 9 credits with an additional 12 credits in either an Athletic Training or Biomechanics track.

The Athletic Training Track includes case study models with an emphasis on ethical and moral decision-making for leaders in athletic training. The Athletic Training Track includes nine credits of required courses focusing on advanced clinical practice, administration and clinical education.

The Biomechanics Track includes movement analysis and performance enhancement models with an emphasis on practicing and promoting ethics and human values in the field of biomechanics. Graduates are also prepared to pursue doctoral study.

Admission Requirements

General admission requirements are to be found under School of HPLS Graduate Program Requirements and Criteria. A personal interview arranged with the program’s director and/or department chair may be requested by the Program Director prior to admission or obtaining “degree seeking” status. In addition, a student seeking admission to the Injury and Sport Biomechanics program must:

• receive an acceptable score on the Graduate Records Examination (GRE) and possess an “above average” Undergraduate GPA

(NOTE: The HPLS Dean reserves the right to establish a minimum undergraduate GPA as well as a minimum GRE score for applicants. GRE applications are available from Barry’s Office of Graduate Admissions.)

Admission Requirements for Athletic Training Track

In addition to the Injury and Sport Biomechanics Requirements, a student seeking admission to the Athletic Training Track must:

• have completed an undergraduate major in Athletic Training from a CAATE accredited Athletic Training Education Program

• be a BOC certified Athletic Trainer, or qualify for acceptance by the BOC as a board exam candidate; and

Individuals holding the B.S. or B.A. degree without any prior athletic training coursework or acceptable clinical experience who desire to pursue the M.S. degree in Athletic Training may apply for acceptance to the Athletic Training B.S. to M.S. seamless option. This option requires an additional separate application and acceptance into the B.S. athletic training clinical program. Approximately six semesters in athletic training coursework and assigned clinical experiences must be completed. Students applying as traditional M.S. students are required to:

• achieve a satisfactory undergraduate GPA
• receive a satisfactory GRE score
• apply to take the BOC exam
• meet the necessary entrance requirements for acceptance to the graduate program in Athletic Training

(NOTE: Athletic Training Track-BOC Certification must be confirmed before enrollment in SES 689 Thesis or SES 679 Project/Internship. Application for graduation can only be given to BOC certified Athletic Trainers.)

Admission Requirements for Biomechanics Track

In addition to the Injury and Sport Biomechanics Requirements, a student seeking admission to the Biomechanics Track must:

• have completed undergraduate courses in anatomy, kinesiology or biomechanics, and physics.

Graduation Requirements

Refer to the Master of Science in Movement Science graduation requirements.

Movement Science Graduate Program Core (15 credits) – see listing 15

Injury and Sport Biomechanics Specialization 9

SES 547 Biomechanics of Musculoskeletal Injury 3
SES 590 Gross Anatomy of the Musculoskeletal System 3
SES 627 Laboratory Instrumentation in Biomechanics 3
SPECIALIZATION

SPORT, EXERCISE, & PERFORMANCE PSYCHOLOGY

The specialization in Sport, Exercise, & Performance Psychology (SEPP) combines both theory and practice in preparing students for leadership roles in sport, exercise, and overall performance enhancement. Teaching, coaching, performance consulting, consulting and research are examples of career fields in which professional opportunities are available. Graduates are also prepared to pursue doctoral study. Degree preparation includes advanced coursework in the sport sciences and in psychology, focusing on the thought processes that ultimately influence the behavior of individuals involved in sport, exercise, and other performance activities such as dance or music. Students acquire the knowledge and skills needed to influence those processes. The program offers extensive opportunities for research and applied practice with state-of-the-art equipment housed in the Performance Behavior Laboratory (PBL).

All students who select the “Applied” option (i.e., requiring SES 677 Sport, Exercise, & Performance Psychology Service Delivery and SES 678 Sport, Exercise, & Performance Psychology Professional Practice at three (3) credit hours per course) will be provided with applied experiences and begin accumulating hours applicable toward Association for Applied Sport Psychology (AASP) provisional status certification. The student is responsible for completing, subsequent to graduation, any remaining supervised applied hours and submitting the AASP application materials required for certification. Some individuals may need to enroll in additional coursework beyond that listed below for completion of the degree in order to satisfy AASP provisional status certification requirements. Consult with the Coordinator of the Sport, Exercise, and Performance Psychology program in the early stages of planning a program of study so that it can be determined if any additional coursework might be necessary.

Students who intend at some point to pursue advanced graduate study leading to the doctoral degree are strongly encouraged to select the “Research” option, which requires the submission of a written thesis. Students wishing to pursue the “dual” track (i.e., both the applied (leading towards AASP provisional status certification) AND research emphasis) in Sport, Exercise, and Performance Psychology must include in their plan of study: SES 662 Exercise Psychology (3) AND SES 624 Advanced Statistics for Sport & Exercise Science or SES 630 Qualitative Research in SES Exercise Science or SES 690 Thesis I and SES 690 Thesis II (6). This plan of study will require nine (9) additional credits to complete both emphases for a total of 45 credits. Students choosing this option must successfully complete all requirements for both emphases for M.S. degree conferral.

Admission Requirements

General admission requirements are to be found under School of HPLS Graduate Program Requirements and Criteria. A personal interview arranged with the program’s graduate coordinator and/or department chair may be requested by the Program Coordinator.

Students must select one of the following tracks to complete the program requirements:

**Athletic Training Course Requirements 12**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SES 545</td>
<td>Manual Techniques 3</td>
</tr>
<tr>
<td>SES 686</td>
<td>Advanced Practicum I 1</td>
</tr>
<tr>
<td>SES 686</td>
<td>Advanced Practicum II 1</td>
</tr>
<tr>
<td>SES 686</td>
<td>Advanced Practicum III 1</td>
</tr>
</tbody>
</table>

**Thesis students:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SES 624</td>
<td>Advanced Statistics for Sport &amp; Exercise Science 3</td>
</tr>
<tr>
<td>SES Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**Internship students:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 2 SES Electives</td>
<td>6</td>
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</tbody>
</table>

**Biomechanics Course Requirements 12**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SES 546</td>
<td>Qualitative Analysis in Biomechanics 3</td>
</tr>
<tr>
<td>SES 624</td>
<td>Advanced Statistics for Sport &amp; Exercise Science 3</td>
</tr>
<tr>
<td>SES 626</td>
<td>Mechanical Analysis of Human Movement 3</td>
</tr>
<tr>
<td>SES 686</td>
<td>Advanced Practicum 3</td>
</tr>
</tbody>
</table>

**Degree Total** 36

**OR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>SES 624</td>
<td>Advanced Statistics for Sport &amp; Exercise Science 3</td>
</tr>
<tr>
<td>SES 626</td>
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**Biomechanics Course Requirements**

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<th>Credits</th>
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<td>SES 624</td>
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</tr>
<tr>
<td>SES 686</td>
<td>Advanced Practicum 3</td>
</tr>
</tbody>
</table>

**Degree Total** 36

**B.S. to M.S. Option**

Students may opt for the M.S. degree program in Movement Science specializing in Injury and Sport Biomechanics-Athletic Training Track while completing their undergraduate studies at Barry University. Students may apply for graduate study at the end of the junior year. To be considered for this program they must have achieved a cumulative GPA of 3.0 or better and have strong faculty recommendations. Information on the B.S. to M.S. option is available from the academic advisor or the program director for Athletic Training. (See Barry University undergraduate catalog for specific details).
prior to admission or obtaining “degree seeking” status. In addition, a student seeking admission to the Sport, Exercise, and Performance Psychology program must:

- have completed undergraduate coursework in psychology
- receive an acceptable score on the Graduate Records Examination (GRE) and possess an “above average” undergraduate GPA

(NOTE: The HPLS Dean reserves the right to establish a minimum undergraduate GPA as well as a minimum GRE score for applicants. GRE applications are available from Barry’s Office of Graduate Admissions.)

Graduation Requirements

Refer to the Master of Science in Movement Science graduation requirements.

Movement Science Graduate Program

Core (15 credits) – see listing 15

Sport, Exercise & Performance Psychology Course Requirements 21

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SES 537</td>
<td>Sport Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SES 625</td>
<td>Motor Learning and Control</td>
<td>3</td>
</tr>
<tr>
<td>SES 664</td>
<td>Motor Development</td>
<td>3</td>
</tr>
<tr>
<td>SES 660</td>
<td>Performance Enhancement Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 531</td>
<td>Psychological Disorders</td>
<td>3</td>
</tr>
</tbody>
</table>

**Plus a choice of one of the following electives: (3 credit hours minimum)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSL 652</td>
<td>Individual Counseling Procedures</td>
<td>3</td>
</tr>
<tr>
<td>PSY 620</td>
<td>Behavior Modification</td>
<td>3</td>
</tr>
<tr>
<td>PSY 526</td>
<td>Health Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 594</td>
<td>Physiology and Treatment of Substance Abuse</td>
<td>3</td>
</tr>
<tr>
<td>PSY 639</td>
<td>Introduction to Neuropsychology</td>
<td>3</td>
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</tbody>
</table>

Students must select one of the following areas of emphasis to complete the program requirements:

Applied Emphasis Course Requirement

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SES 662</td>
<td>Exercise Psychology</td>
<td>3</td>
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</tbody>
</table>

OR

Research Emphasis Course Requirement

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SES 624</td>
<td>Advanced Statistics for Sport &amp; Exercise Science</td>
<td>3</td>
</tr>
</tbody>
</table>

OR

SSES 630 Qualitative Research in SES 3

Degree Total: 36

**Other Barry graduate level courses may be substituted as electives, subject to prior approval by the student’s Graduate Committee.

MOVEMENT SCIENCE – GENERAL

This program provides the student with maximum flexibility in designing a personalized program of advanced study that is customized to enhance professional preparation and expertise in one’s current field or in an intended area of interest for career growth or future doctoral studies. It is ideal for physical educators, coaches, or allied health professionals involved with movement analysis, skill enhancement, and strength/flexibility/aerobic development. The “General” track in Movement Science requires a total of 36 credits of coursework, including 15 hours in the Movement Science Core. The remaining 21 hours are electives, all of which can be chosen from among any of the graduate level courses offered within the four Movement Science specializations OR which can include up to 6 credit hours chosen from among any other graduate level courses offered within the Dept. of Sport & Exercise Sciences or at Barry University. No more than 15 credits can be earned in any one specialization, excluding SES 689 Thesis or SES 679 Internship. Either option requires prior approval of an intended program of study by one’s Graduate Committee.

Admission Requirements:

General admission requirements are to be found under School of HPLS Graduate Program Requirements and Criteria. A personal interview arranged with the Program Director and/or the Department Chair may be required prior to admission or obtaining “degree seeking” status. In addition, a student seeking admission to the General Movement Science program must have earned:

- an acceptable score on the Graduate Record Examination (GRE), and
- an “above average” undergraduate GPA

(NOTE: The HPLS Dean reserves the right to establish a minimum undergraduate GPA as well as a minimum GRE score for applicants. GRE applications are available from Barry’s Office of Graduate Admissions.)

Graduation Requirements:

Refer to the Master of Science in Movement Science graduation requirements.

Movement Science Graduate Program Core (See listing.) 15

Movement Science Course Requirements 21

Design a plan of study totaling 21 credits from among the following courses. The program of study may be modified to include a maximum of six (6) hours of coursework chosen from among other graduate level
courses offered in the Dept. of Sport and Exercise Sciences or in other academic units at Barry. The program of study MUST be submitted to one’s Graduate Committee for approval prior to initial enrollment in any elective course.

**Movement Science Graduate Courses**  
*(please note, some of the classes listed below have prerequisites)*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SES 537</td>
<td>Sport Psychology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SES 541</td>
<td>Clinical Exercise Physiology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SES 541L</td>
<td>Clinical Exercise Physiology Laboratory</td>
<td>1 cr.</td>
</tr>
<tr>
<td>SES 545</td>
<td>Manual Therapy in Sports Medicine</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SES 546</td>
<td>Qualitative Analysis in Biomechanics</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SES 547</td>
<td>Biomechanics of Musculoskeletal Injuries</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SES 551</td>
<td>Fitness Assessment &amp; Program Development</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SES 553</td>
<td>Biomedical Ethics</td>
<td>2 cr.</td>
</tr>
<tr>
<td>SES 561</td>
<td>Advanced Exercise Physiology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SES 561L</td>
<td>Advanced Exercise Physiology Laboratory</td>
<td>1 cr.</td>
</tr>
<tr>
<td>SES 563</td>
<td>Applied Physiology of Strength and Conditioning</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SES 565</td>
<td>Laboratory Techniques in EXP ECG Interpretation and Exercise Testing</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SES 578</td>
<td>ECG Interpretation and Exercise Testing</td>
<td>2 cr.</td>
</tr>
<tr>
<td>SES 585</td>
<td>The Law in SES</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SES 590</td>
<td>Gross Anatomy of the Musculoskeletal System</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SES 600</td>
<td>Advanced Qualitative Research Methods in SES</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SES 618</td>
<td>Fitness and Wellness Promotion</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SES 624</td>
<td>Advanced Statistics for Sport &amp; Exercise Science</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SES 625</td>
<td>Motor Learning and Control Biomechanics</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SES 627</td>
<td>Laboratory Instrumentation in Biomechanics</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SES 630</td>
<td>Qualitative Research in SES</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SES 660</td>
<td>Performance Enhancement Psychology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SES 662</td>
<td>Exercise Psychology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SES 664</td>
<td>Motor Development</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SES 668</td>
<td>Psychophysiology of Human Performance</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SES 672</td>
<td>Exercise and Energy Metabolism</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SES 686</td>
<td>Advanced Practicum</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

**Degree Total:** 36

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**MASTER OF SCIENCE (M.S.) IN SPORT MANAGEMENT**

The Master of Science (M.S.) Degree in Sport Management combines theory and practice in preparing students for management positions in areas of sport in its global sense (e.g., amateur and professional sports; scholastic and collegiate athletics; facility and event management; sport marketing; resort and tourism; parks and recreational centers; sport and community transformation, etc.). Degree preparation includes theoretical frameworks in management applied to sport settings, enabling graduates to practice and promulgate ethical decision making and human value-driven initiatives.

The Sport Management graduate curriculum includes coursework offered within the Andreas School of Business and offers its majors two degree options: the M.S. in Sport Management or the dual degree option leading to Master’s degrees in Sport Management and Business Administration (M.S./M.B.A.). The M.S. and the M.S./M.B.A. degrees include at least eight industry-specific courses in the SES Department and two to nine courses in the Andreas School of Business. Both of the Master’s degree programs in Sport Management include the opportunity to select coursework best suited to individual interests. Students may also pursue elective credits in other subject areas (e.g., Journalism, Communications, Psychology) to enhance professional preparation for sport-related careers in these fields.

**Sport Management Program Goals and Objectives**

Students will:

**Program Goal 1:**
Integrate advanced practice core competencies and professional competence and development in the application of sport management.

**Program Goal 2:**
Integrate appropriate theory and research in sport management and related fields as paradigms for organizational decision making.

**Admission Requirements**

See School of HPLS Graduate Program Requirements and Criteria. A personal interview arranged with the program’s Graduate Coordinator and/or Department Chair may be requested by the Program Coordinator prior to admission or obtaining “degree-seeking” status. All students seeking the joint M.S./M.B.A. degree option must also meet Andreas School of Business requirements for graduate admission.
Admission into the graduate programs in Sport Management requires an acceptable score on the Graduate Record Examination (GRE) or the Graduate Management Admission Test (GMAT), and a better than average undergraduate GPA. Admission into the M.S./M.B.A. dual program requires an acceptable score on the GMAT.

(NOTE: The HPLS Dean and/or the Dean or Dean’s designee, Andreas School of Business, reserve the right to establish a minimum undergraduate GPA as well as a minimum GRE or GMAT score for applicants. Check with the Sport Management Program Coordinator for specifics on minimum requirements for the above.)

Graduation Requirements

See School of HPLS academic requirements, as well as the requirements for project/thesis and comprehensive examinations. The M.S. in Sport Management consists of a total of 36 semester hours; the M.S./M.B.A. option totals 57 credit hours.

Degree Requirements

Sport Management Core Requirements 15-18

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SES 585</td>
<td>The Law in SES</td>
<td>3</td>
</tr>
<tr>
<td>SES 616</td>
<td>Research Methodology in SES</td>
<td>3</td>
</tr>
<tr>
<td>SES 634</td>
<td>Sport Governance</td>
<td>3</td>
</tr>
</tbody>
</table>

Internship option:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SES 679</td>
<td>Internship/Project</td>
<td>6</td>
</tr>
</tbody>
</table>

OR

Thesis option:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SES 689</td>
<td>Thesis I</td>
<td>3</td>
</tr>
<tr>
<td>SES 690</td>
<td>Thesis II</td>
<td>3</td>
</tr>
<tr>
<td>SES 624</td>
<td>Advanced Statistics for Sport &amp; Exercise Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

OR

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SES 630</td>
<td>Qualitative Research in SES</td>
<td>3</td>
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</table>

Other Sport Mgmt. Course Requirements 12

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SES 532</td>
<td>Facility and Event Planning</td>
<td>3</td>
</tr>
<tr>
<td>SES 533</td>
<td>Sport Marketing Management</td>
<td>3</td>
</tr>
<tr>
<td>SES 544</td>
<td>Financial Applications to Sport</td>
<td>3</td>
</tr>
<tr>
<td>*SES 621</td>
<td>Ethical Issues in Sport and Exercise Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

* SES 530 is a prerequisite for students without a degree in sport management or business.

** Other MBA courses may be substituted as electives, subject to approval by Associate Dean and the student’s Graduate Committee, with appropriate prerequisites for MBA course enrollment.

Sport Management Electives: 0-3

Thesis Option: No electives are required.

Internship Option: To increase academic flexibility, students are permitted three (3) electives in their course of study. These tracks of specializations, or “clusters”, may be developed in areas of interest such as sport media, international sport, business, law, research, or others. Select from the Sport Management and Business course electives listed under the M.S. in Sport Management, subject to Graduate Committee approval.

Choose three (3) electives from the list below, totaling a minimum of three (9) credit hours and approved by one’s Graduate Committee.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SES 531</td>
<td>Media Relations and Sport</td>
<td>3</td>
</tr>
<tr>
<td>COM 590</td>
<td>P.R. Principles and Case Studies</td>
<td>3</td>
</tr>
<tr>
<td>*SES 530</td>
<td>Managing the Sport Enterprise</td>
<td>3</td>
</tr>
<tr>
<td>SES 535</td>
<td>Managing Professional Sport</td>
<td>3</td>
</tr>
<tr>
<td>SES 537</td>
<td>Sport Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SES 551</td>
<td>Fitness Assessment and Program Development</td>
<td>3</td>
</tr>
<tr>
<td>SES 618</td>
<td>Fitness and Wellness Promotion</td>
<td>3</td>
</tr>
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<td>SES 652</td>
<td>Labor Relations in Sport</td>
<td>3</td>
</tr>
<tr>
<td>SES 663</td>
<td>Risk Management in Sport &amp; Physical Activity</td>
<td>3</td>
</tr>
<tr>
<td>SES 600</td>
<td>Advanced Studies in ...</td>
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<td>MBA 601</td>
<td>Human Resource Management</td>
<td>3</td>
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<tr>
<td>MBA 603</td>
<td>International Business</td>
<td>3</td>
</tr>
<tr>
<td>MBA 605</td>
<td>Entrepreneurial Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Degree Total: (M.S. in Sport Mgmt.) 36

* Upon special request by the advisor to the HPLS Dean, consideration may be given for substituting an approved elective for this course when evidence can be provided that the student has satisfactorily completed a Sports Ethics course at Barry University.
## Degree Requirements

### Sport Management Core Requirements

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**Internship option:**

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<th>Credits</th>
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<tbody>
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**OR**

**Thesis option:**

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<td>Financial Applications to Sport</td>
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<td>Ethical Issues in Sport and Exercise Sciences</td>
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</table>

**Sport Management Electives:**

<table>
<thead>
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<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Thesis Option:** No electives are required.

**Internship Option:** Choose one (1) elective from the list below as approved by one’s graduate committee.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Media Relations and Sport</td>
<td>3</td>
</tr>
<tr>
<td>COM 590</td>
<td>P.R. Principles and Case Studies</td>
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<tr>
<td>*SES 530</td>
<td>Managing the Sport Enterprise</td>
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<td>SES 535</td>
<td>Managing Professional Sport</td>
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<td>SES 537</td>
<td>Sport Psychology</td>
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<tr>
<td>SES 551</td>
<td>Fitness Assessment and Program Development</td>
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<td>SES 618</td>
<td>Fitness and Wellness Promotion</td>
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<td>SES 652</td>
<td>Labor Relations in Sport</td>
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<td>SES 663</td>
<td>Risk Management in Sport &amp; Physical Activity</td>
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### Business Course Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<td>MBA 603</td>
<td>International Business</td>
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<td>Technology &amp; Information Systems</td>
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<td>MBA 621</td>
<td>Managerial Finance</td>
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<td>MBA 646</td>
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<td>MBA 660</td>
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<td>MBA 681</td>
<td>Economics for Strategic Decisions</td>
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<td>MBA 682</td>
<td>Strategy Formulation, Implementation &amp; Entrepreneurship</td>
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<td>MBA 683</td>
<td>Leadership and Advanced Management Concepts</td>
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<td>MBA 692</td>
<td>Social, Legal and Ethical Aspects of Business</td>
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* SES 530 is a prerequisite for students without a degree in sport management or business.

## Prerequisite and Preparatory Courses

MBA students must have undergraduate preparation in specific courses/areas (detailed below) from an accredited institution prior to admission to graduate programs in the School of Business. The Dean, or the Dean’s designee, will review each applicant’s undergraduate record to determine which preparatory workshops are required from the student. The decision whether to accept an undergraduate course as equivalent preparation for entry into MBA coursework is at the discretion of the Dean or the Dean’s designee. MBA students must have taken the following undergraduate courses, obtaining a grade of “C” or better in each.

- 6 credit hours of Financial and Managerial Accounting
- 6 credit hours of Macro and Microeconomics
- 3 credit hours of College Algebra or Precalculus
- 3 credit hours of Statistics
- 3 credit hours of Finance
- 3 credit hours of Management
- 3 credit hours of Operations Management
- 3 credit hours of Marketing

The Accounting, Macroeconomics, Microeconomics, Precalculus, and Statistics prerequisites may be taken at any regionally-accredited, two-year (associate degree) or four-year (baccalaureate degree) institution. The Finance, Management, Operations Management and Marketing prerequisites may be taken only at a regionally-accredited, four-year institution. The preparatory workshops may also be taken as not-for-credit in the School of Business, as listed below.
BUS 511W Precalculus and statistics: 20 hour workshop
BUS 512W Accounting Principles: 20 hour workshop
BUS 513W Economics: 20 hour workshop
BUS 514W Finance: 6 hour workshop
BUS 515W Management: 6 hour workshop
BUS 516W Marketing: 6 hour workshop
BUS 517W Operations Management: 6 hour workshop
BUS 518W Writing for Business: 20 hour workshop

Degree Total: (M.S./M.B.A. dual degree) 57

B.S. to M.S. in Sport Management

Students may opt for the M.S. degree in Sport Management while completing their undergraduate studies at Barry University. Students may apply for graduate study in the junior year. To be considered for this program they must have achieved a cumulative GPA of 3.0 or better and have strong faculty recommendations. Students must complete the required 120 credit hours of undergraduate coursework in sport management, including a minor in business. (See the Barry University undergraduate catalog for specific details.) Students complete 36 graduate credit hours (6 of which count in the Undergraduate Sport Management degree), including 15 credit hours of required courses and 21 customized elective credits for the internship option and 18 credit hours of required courses and 18 customized elective credits for the thesis option. The customized elective credits must be approved by the student’s graduate committee. Graduate coursework begins in semester 7 and includes one summer term. Information on the B.S. to M.S. program is available from the academic advisor or the program coordinator for Sport Management.

M.S. Degree Requirements

Sport Management Core Requirements 15-18
SES 585 The Law in SES 3
SES 616 Research Methodology in SES 3
SES 634 Sport Governance 3

Internship Option
SES 679 Internship/Project 6

Thesis Option
SES 689 Thesis I 3
SES 690 Thesis II 3
SES 624 Advanced Statistics for Sport & Exercise Sciences 3
OR
SES 630 Qualitative Research in SES 3

Customized Electives 12-15

To increase academic flexibility, students are permitted to choose electives in their course of study. These tracks of specializations, or “clusters”, may be developed in areas of interest such as sport media, international sport, business, law, research, or others. Select from the Sport Management and Business course electives listed under the M.S. in Sport Management, subject to Graduate Committee approval.

Degree Total: (B.S. to M.S. in Sport Management) 30

Graduate Course Descriptions—Sport and Exercise Sciences

Prefix: SES

511 Coaching Techniques for Disabled Athletes (2)
Provides an introduction to the various sports organizations specific to athletes with disabilities and an emphasis on coaching techniques aimed at those athletes who compete in competitions provided by each of these groups. This course partially fulfills the requirements for the endorsement in Adapted Physical Education.

520 Biomechanics (3)
This course provides students the opportunity to study advanced techniques in the analysis of mechanical factors related to human movement. Specific areas of human movement include: sport, aquatics, ergonomics, rehabilitation, disability sport, exercise/fitness, and gait. Students must also complete a comprehensive investigation project. Prerequisite: SES 320 or the equivalent.

530 Managing the Sport Enterprise (3)
Provides a broad overview of various sport management enterprises with emphasis on sources of industry information and practical uses of such information. Analyzes internal and external environmental factors that impact on short and long term operations in the sport enterprise. Addresses the management specifics of how to plan, organize, control, and direct a sport enterprise as well as decision-making and communication skills necessary to be a successful manager.

531 Media Relations and Sport (3)
Study of the interaction between professional and collegiate sports and the media. Knowledge of studio equipment is helpful but not required. (Same as COM 531.)
532 Facility and Event Planning (3)
An in-depth study of the principles, guidelines and recommendations for facility planning, management and operations as well as a foundation for event planning and production.

533 Sport Marketing Management (3)
Presents a comprehensive examination of basic marketing functions and concepts as applied to sport-related enterprise, including school/college athletic programs, fitness centers, etc. Helps the student analyze and make recommendations about sport business problems that involve the creation, distribution, and sale of sporting goods and services. Emphasizes the resolution of sport marketing problems, demand analysis, consumer analysis and market analysis.

535 Managing Professional Sport (3)
Discusses and analyzes major issues facing managers of a professional sports franchise. Focuses on topics such as corporate structure, finance, player negotiations, contracts, press relations, auxiliary enterprises, and community impact.

537 Sport Psychology (3)
Provides an in-depth focus on the conceptual elements of contemporary psychoanalytic, cognitive, social, existential and systematic theories of personality and behavior change as applied to sport. Includes selected readings, lectures, and student discussion. Seeks to develop an appreciation for the psychology of optimal performance, as well as other psychological issues involved in the evaluation and future directions of contemporary sport. Critically examines the gender, class, and culture adequacy of sport psychology theory.

540 Medical Recognition of Athletic Injuries (1)
A course for athletic trainers in the study of differential diagnostic procedures used by sports medicine physicians to assess and plan for the care of injuries and illnesses in physically active people. Prerequisite: An advanced course in assessment of athletic injuries or the equivalent.

541 Clinical Exercise Physiology (3)
Pathophysiology of cardiopulmonary and metabolic diseases with emphasis on the physiological and technical basis of clinical exercise tolerance tests and exercise prescription, and exercise leadership for the cardiopulmonary, diabetic, obese or elderly patient. Graduate students must complete a comprehensive written report based on a cardiac rehabilitation site observation. 2-hr laboratory weekly. Laboratory fee required. Prerequisite: SES 361 or equivalent. Corequisite: SES 541.

544 Financial Applications to Sport (3)
Applies financial principles to various professional collegiate or high school level sport programs as well as exercise-related settings. The course will provide the student with a practical background regarding the principles of financial management and financial statements for the purposes of planning, administering, reporting and evaluating the financial performance of sport-related entities. Prerequisites: MAT 152, ACC 201, ECO 201, FIN 319, or equivalents.

545 Manual Therapy in Sports Medicine (3)
A course for athletic trainers on advanced manual techniques in sports medicine: proprioceptive neuromuscular facilitation, joint mobilization, cross-friction massage, eastern and western massage methods, myofascial manipulation, and stretching. Prerequisite: Courses in therapeutic exercise and therapeutic modalities or the equivalent.

546 Qualitative Analysis in Biomechanics (3)
The study of the fundamentals of qualitative analysis of human movement: application of mechanical concepts, use of observational techniques, and development of skills useful for teaching and enhancing human performance in a practical environment. Prerequisite: SES 320 or equivalent.

547 Biomechanics of Musculoskeletal Injuries (3)
The study of the laws and mechanical principles governing the force characteristics, mechanisms of injury, and healing rate of tissues in the human musculoskeletal system. Prerequisite: SES 520

551 Fitness Assessment and Program Development (3)
Considers principles and procedures used to administer lab and field tests of cardiovascular endurance, body composition, joint flexibility and muscular strength, power, and endurance. Explores principles and procedures used to develop conditioning programs to improve these parameters. Focuses on the low-risk individual in non-clinical settings. Prerequisites: SES 360 or 361, or equivalent.

561 Advanced Exercise Physiology (3)
Comprehensive analysis of skeletal muscle, metabolic and cardiorespiratory responses to exercise. Topics include performance and adaptations in the athlete, aging, growth and development, and thermoregulation during exercise. Prerequisite: SES 361 or equivalent.
563 Applied Physiology of Strength and Conditioning (3)
Study and critical evaluation of strength and conditioning concepts, and the biomechanical and physiological analyses of various sport movements as they apply to strength and power exercises for sport training. Students are prepared to attempt the National Strength and Conditioning Association’s certification exam. Students are given opportunities to work with Barry University athletes in strength and conditioning programs. Prerequisites: SES 361 or equivalent.

565 Laboratory Techniques in Exercise Physiology (3)
This course provides in-depth experience in tests and measurements used in an exercise physiology laboratory for purposes of clinical, health and fitness, and sport performance research. Measurements include oxygen uptake, blood lactate, ECG, spirometry, air plethysmography, hydrostatic weighing and DEXA. Laboratory techniques are applied to exercise tests and body composition analyses with the purpose of evaluating the physiological responses to exercise. $50 laboratory fee required. Prerequisite: SES 361 or equivalent, and SES 561 or taken concurrently.

585 The Law in Sport and Exercise Science (3)
Provides an understanding of the American legal system with an emphasis on the resolution of sport business legal disputes by means of civil litigation, mediation, arbitration, and trial procedures. Examines the traditional areas of contract law and tort law as they relate to problems confronting the exercise leader, athletic director, teacher/coach, or sport manager. Scrutinizes the legal structure of sport and focuses on special topics of television and media, trademark law, sex discrimination, facility safety, handicap access, professional sport, drug testing, antitrust laws, gambling and tax laws.

590 Gross Anatomy of the Musculoskeletal System (3)
Study designed to expose the student to the macroscopic aspects of human morphology. Cadaver-procedures will be correlated with surface anatomy, radiology and other clinical information. This course focuses on musculoskeletal gross anatomy of the spine and extremities and other clinical information. There will be an emphasis on the study of the principles of coordination and control of movement. Emphasis is on the neuro-physiological mechanisms that apply to the processes of voluntary movement. Prerequisites: BIO 230, BIO 240.

600 Advanced Studies in ____________ (2-4)
Opportunity for further study and research in areas of special interest. Prerequisite: Department Chair approval.

616 Research Methodology in Sport and Exercise Science (3)
Examines research methods and designs used in a variety of exercise and sport-related settings. Emphasizes the development of research techniques, including the ability to define research problems, write hypotheses, review and interpret literature, apply research designs, organize, analyze, and present data. Studies basic descriptive statistics for measurement and research (statistical notation, measures of central tendency and variability, probability and sampling techniques, linear regression and correlation and an introduction to statistical inference).

618 Fitness and Wellness Promotion (3)
Examines health promotion programs in a variety of settings including program components, assessment, design, implementation, and evaluation. Discusses case studies from health-related programs to assist students in developing wellness and health promotion philosophy and strategies.

621 Ethical Issues in Sport and Exercise Sciences (3)
A seminar style course which reviews and discuss current issues impacting the sport and exercise professional in the fields of sport management, exercise physiology, athletic training, biomechanics and sport and exercise psychology. Includes an analysis of the processes and values that create, sustain and transform sport in today’s society. Emphasis is placed on practicing and promoting ethics and human values while managing and operating professionally within any sport and exercise enterprise.

624 Advanced Statistics for Sport & Exercise Sciences (3)
Examines advanced competencies to conceptualize, design, analyze, report and publish quantitative research that delivers new and useful knowledge. Emphasis is placed on a variety of common statistical procedures in the Sport and Exercise Sciences and the assumptions and criteria for selection that underlies each. The ethical issues associated with design, data collection, data analysis, and data reporting are also emphasized. This course balances its presentation of research theory and computer-based tools with application to real world problems in Sport and Exercise Science. Prerequisite: SES 616.

625 Motor Learning and Control (3)
A course of study for graduate movement science students in the study of the principles of coordination and control of movement. Emphasis is on the neuro-physiological mechanisms that apply to the processes of voluntary movement. Prerequisites: BIO 230, BIO 240.

626 Mechanical Analysis of Human Performance (3)
This is a course for graduate movement science students in the advanced study of physical laws and mechanical concepts, with an emphasis on those relevant for the analysis of human movement. Includes mathematical computation and application to selected activities in sport and disability sport, gait, industry, and orthopedics. Prerequisites: SES 520, MAT 211, PHY 201.
627  Laboratory Instrumentation in Biomechanics (3)
A course for graduate movement science students in the study of instrumentation utilized in the collection of motion data in the area of Biomechanics. Emphasis is placed on the technical and analytical aspects of motion analysis, force measurement, and electromyography. Prerequisite: SES 320 or equivalent.

630  Qualitative Research in SES (3)
This course examines advanced qualitative research methods and designs used in a variety of exercise and sport-related settings. It is designed to familiarize graduate students with the qualitative research process from the formation of the research question to the submission of a manuscript for editorial review. The course emphasizes the development of qualitative research techniques, including the ability to define research problems, understanding philosophical groundings, develop research question(s), review and interpret literature and methodologies, apply research designs, organize, analyze and present data. Prerequisite: SES 616.

634  Sport Governance (3)
General principles of administration and governance structures in amateur and professional sport will be the foci of the course. Emphasis will be placed on the International Olympic Committee, the United States Olympic Committee and the National Governing Bodies; the Special Olympics; the National Collegiate Athletic Association; High School Leagues; and various other amateur and professional sport organizations.

640  Rehabilitation Science in Sports Medicine (1)
A course for athletic trainers on the application of the most current research on rehabilitative techniques in sports medicine. Prerequisite: Courses in therapeutic exercise and therapeutic modalities or the equivalent.

645  Curriculum and Instructional Design in Athletic Training (1)
A course for athletic trainers on planning, designing and implementing athletic training educational programs in high schools/colleges and universities. Emphasis on instructional design and sequencing of competency-based experiences. Prerequisite: Admission to graduate program.

652  Labor Relations in Sport (3)
An in depth analysis of employment and labor relations encountered in the contemporary practice and business of sport, the course will allow students to gain expertise in contract, employment, labor, and antitrust. Civil rights, and federal and state statutes will also be addressed.

660  Performance Enhancement Psychology (3)
A course for graduate movement science students in the advanced study of psychological theories and intervention in sport and exercise psychology as well as other performance domains. Prerequisite: SES 537.

662  Exercise Psychology (3)
A course of study for graduate movement science students that examines the reciprocal relations among physical activity, exercise behavior, and biochemical and physiological adaptation. Further, this course provides an in-depth exploration of psychosocial determinants and effects associated with adopting and maintaining an exercise program. Topics include theories of behavior change, exercise psychology interventions, and the relationship between exercise and mental health. Prerequisite: SES 537.

663  Risk Management in Sport and Exercise Science (3)
An introduction to risk management and its application to sport and physical activity, the course will enable students to identify, evaluate, and control loss to personal and real property, clients and students, employees, and the public. Losses may result in injury, death, destruction of property, financial failure, or harm to reputation. Students will become familiar with systems used in assessing risks in the sport industry.

664  Motor Development (3)
This course examines human motor development from conception throughout the life span. Through current research and practices, the course examines biological, psychological, sociological and physiological factors that impact such diverse areas as reflexes, reactions and postural control, and voluntary and skilled movements. The content includes understanding methodological, measurement, and evaluation issues related to motor development. Prerequisite: SES 625.

672  Exercise and Energy Metabolism (3)
This course builds on previous knowledge of exercise physiology and research methodology. It includes an in-depth analysis of the biochemical pathways involving nutrients with emphasis on exercise fuel metabolism and the metabolic adaptations to exercise training. Additional emphasis is placed on the application of theory and knowledge of exercise and energy metabolism to weight control and obesity, aging and sport performance. Prerequisite: SES 561 or equivalent, and SES 616.

673  Professional Ethics in Sport, Exercise, and Performance Psychology (3)
This course examines ethical and legal issues related to sport, exercise, and performance psychology (SEPP) professional conduct. The course includes topics such
as ethical reasoning, Association for Applied Sport Psychology (AASP) ethical principles, rules of conduct, confidentiality, releases, records, and the duty to warn. The course addresses ethical issues in areas such as assessment, research, service delivery and supervisory relationships. Prerequisite: SES 537. (For SEPP students only).

677  **Sport, Exercise, & Performance Psychology**
**Service Delivery (3)**
This course provides an in-depth exploration of the current professional practices in sport and exercise psychology service delivery that utilize both psychological and educational interventions. Emphasis will be placed on advanced applied theories and practice systems of behavior change in sport and exercise. The new knowledge will build on the student growing expertise acquired in a number of previous courses and will be directly applied in an actual athletic setting, exercise setting, or both. Both individual and group (team) interventions will be supervised. Prerequisite: SES 660.

678  **Sport, Exercise, & Performance Psychology**
**Professional Practice (3)**
This course provides an intense examination of the critical components of successful and ethical professional practice and career building in sport and exercise psychology in conjunction with intensive provision of sport and exercise psychology services. The entire body of sport and exercise psychology theoretical and applied knowledge as well as the skills that the students have acquired will be intensely used. Additionally, rigorous self-reflective activities and ethical decision-making will aim at intensifying the student professional and personal growth as directly related to the effectiveness in the sport and exercise psychology practice. Emphasis will be placed on diversifying and integrating theoretical knowledge and applied strategies and skills while simultaneously engaged in supervised independent work in real life sport and exercise settings. Prerequisite: SES 677.

679  **Internship/Project (3-6)**
Designed in close consultation with one’s Graduate Committee and the industry sponsoring organization or site. Intended to develop greater breadth and depth of understanding of a respective discipline through a full immersion experience in a real life setting outside the classroom. Requires a written project to be submitted to a graduate faculty committee for evaluation. Concludes as the student presents orally the findings related to his/her project and defends conclusions against questions raised by the faculty review committee. Prerequisite: Passing grade on written comprehensive exam and Graduate Committee approval. Sport & Ex. Psych. students pursuing the “applied” option are only required to enroll in three (3) cr. hrs. All other graduate students must enroll in a total of six (6) cr. hrs., which can be split across two consecutive terms at three (3) cr. hrs. per term, subject to prior approval from one’s Graduate Committee.

686  **Advanced Practicum in**
**Sport, Exercise, & Performance Psychology (1-3)**
An intensive field or laboratory experience in athletic training, exercise physiology, exercise leadership, sport management, biomechanics, or sport and exercise psychology. Emphasis will be on independent work and research experience, and assignments may include assisting with research projects, collecting pilot study data for the thesis or internship project, or completing a requisite number of clinical hours in order to pursue professional certification. Exercise Physiology students only: prerequisite: SES 561 & SES 616.

689  **Thesis I (3)**
Provides the initiation, implementation and evaluation of a scholarly investigation. Requires students to submit a written research proposal for approval by a thesis/project committee and present an oral proposal to that committee. Culminates with an approved written thesis proposal report as well as submission of IRB documents for approval. Prerequisite: SES 616, passing grade on written comprehensive exam, and Graduate Committee approval.

690  **Thesis II (3)**
Provides the implementation and culmination of a scholarly investigation. Requires students to submit a final written thesis document and successfully present an oral thesis defense to the thesis committee. This course culminates with a final thesis document being submitted to the Barry University Library. This final thesis document will include all final changes required and signatures by the thesis committee members. Prerequisites: SES 689 Thesis I, pass with B or better. May be taken concurrently with SES 689 subject to approval from one’s Graduate Committee.

699  **Continuous Registration (1)**
Satisfies research in residence or continuous enrollment. Credit/No Credit