MASTER OF SCIENCE
IN BIOKINESIOLOGY

STUDENT HANDBOOK

Division of Biokinesiology & Physical Therapy

School of Dentistry

University of Southern California

Revised 11/1/21
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What is Biokinesiology?

**Biokinesiology** – n. The study of the biological bases of both healthy and disordered human movement.

The focus of biokinesiology is on understanding how the human body adapts to growth and experience as well as its adapting to injury, disease, and aging. Three fundamental principles provide a rationale for the study of biokinesiology as the foundation science of physical therapy. They are:

1. Human health and quality of life depend on the ability to move skillfully and efficiently.
2. Specific biological mechanisms are responsible for skilled and efficient motor output, and an understanding of these mechanisms is essential to developing better methods for treating disorders that affect movement.
3. Movement is used by humans to accomplish meaningful goals. This means that a behavioral or action-based perspective is therefore essential to understanding the determinants of both normal and dysfunctional movement.

Biokinesiology is inherently interdisciplinary. In order to elucidate the causal mechanisms in movement behavior, research programs are designed to analyze movement across different levels of observation. Biokinesiology integrates the study of movement across three broadly defined hierarchical levels. First, movement is analyzed at the molecular, cellular, organ, and systems levels. This is accomplished by using techniques developed in the life sciences in order to discover the basic structural and physiological mechanisms that account for movement adaptability. These techniques are often invasive and involve animal models and advanced clinical models. Second, movement itself is studied from the outside using non-invasive or minimally invasive techniques for measuring movement trajectories, the forces that produce movement, and the muscle contractions that produce force. Included in this outside-in perspective are psychophysical and behavioral approaches for describing and analyzing the nature of information processing and the course of learning and adaptability. Lastly, clinical investigations are designed to determine the best ways to measure pathologic movement and to test the efficacy of interventions intended to rehabilitate individuals with disorders that affect their movement.
Master of Science in Biokinesiology
Program Philosophy & Objectives

The Master of Science in Biokinesiology program prepares graduates to be research scientists in the field of biokinesiology, MS students conduct basic or clinical research usually under the direction of a principal investigator. The philosophy of the MS in biokinesiology program is that graduates will be prepared to conduct collaborative, interdisciplinary research. This requires that they are conversant in all areas of biokinesiology and that they are able to conceptualize research questions across several levels of analysis. The curriculum strikes a balance between providing students with a broad exposure to the variety of disciplines within biokinesiology and giving students the advanced skills necessary to excel in a specialized area. Students achieve breadth of knowledge by taking a set of required core courses, and they develop depth by taking elective courses in their areas of concentration. MS students also learn specialized research skill by completing a project in one of the laboratories of the biokinesiology program.

Master of Science in Biokinesiology
Emphasis in Sports Science
Program Philosophy & Objectives

The Master of Science in Biokinesiology with an emphasis in Sports Science prepares graduates to work in the sport science field in athletics, industry and academics. MS-Sports Science students conduct clinical or basic research usually under the direction of a principal investigator and complete an internship in a sports science setting. The philosophy of the Sport Science emphasis is that graduates will be prepared to become a member of a multi-disciplinary team for athlete performance and well-being. This requires that students are conversant in all areas of Biokinesiology, and are able to conceptualize all aspects of experimental design across several levels of analysis. It is imperative that they are able to apply and communicate their knowledge to individuals across disciplines. The curriculum provides students with a solid understanding of physiological, biomechanical and neurological basis of movement while giving students the advanced skills necessary to excel in a specialized area related to sport and exercise. Graduates will have a theoretical and practical understanding of the concepts and tools used in sports performance assessment and interpretation with respect to injury, injury risk and optimal performance.
Commitment to Diversity, Equity & Inclusion

The Division is committed to diversity, equity, inclusion, and anti-racism in our teaching policies and practices. We are health care providers and researchers who want to provide equitable care to a diverse population and in order to do so we must include all of the voices of that population. The Diversity, Anti-Racism, Inclusion, and Community Engagement (DARIC) Council guides the Division’s strategic priority to foster diversity in the recruitment and retention of our students, staff, and faculty; provide an inclusive, anti-racist environment where all members of the community are valued and feel welcomed; and to promote population health equity.

Knowing that we are limited by our own cultural lenses, life experiences, and institutional blind spots, there will be instances when we fall short of our goals of creating a welcoming, safe, and inclusive environment. When we do fall short, we invite students to bring to our attention instances of implicit bias, microaggressions, or cultural insensitivity. We encourage students to bring these concerns directly to the offending Division faculty and/or staff, however, we recognize that some students may prefer other methods to communicate these concerns. In those cases, these instances can be brought to the DARIC Council, or reported on the DARIC Bias Reporting Form with the option of remaining anonymous. This form may be found on the Division’s Diversity and Anti-Racism webpage: https://pt.usc.edu/bias-incident-reporting-form/.
Graduate School Policies and Requirements

General Requirements for Graduate Degrees
The foundation for the master’s degree or for the Ph.D. degree is a baccalaureate degree or its equivalent comparable in standard to that awarded at USC from a regionally accredited college or university. Many doctoral students, of course, will already have received a master’s degree. University policies governing unit, grade point average and time limit requirements are stated in the Academic Policies section of this catalogue (see page 25). Graduate students should also consult this section for policies on transfer of credit, concurrent enrollment, continuous enrollment, leaves of absence, readmission, and waiver and substitution of course requirements.

Unit Requirements
A minimum of 32 units of course work beyond the baccalaureate is required for the M.S. degree.

Residence
Residence is a period of intensive study completed at USC. For the master’s degree a minimum of 20 units of course work applicable toward the degree must be completed on the University Park and/or Health Sciences Campuses and/or at one of the university’s approved off-campus study centers. Internships, fieldwork and other off-campus experiences do not count toward residency.

Communication Skills Requirement
All candidates for advanced degrees awarded by the Graduate School must demonstrate the ability to communicate and transfer knowledge. The specific method(s) for satisfying this requirement will be established by each individual academic unit.

Exception to Graduate School Policy
Exceptions to certain policies and procedures governing Graduate School degree programs will be considered upon the submission of a specific request supported by adequate reasons, information and documentation, if needed. The signatures and recommendation of the faculty adviser or committee chair, the department chair, and, in some cases, the dean of the degree program, are required. Requests must be initiated and submitted on behalf of the student by the department’s or program’s staff adviser. After training on the Graduate School’s online request system, advisers may access the necessary forms through the Graduate School’s Website.

Departmental Requirements
The requirements and regulations set forth in this portion of the catalogue are to be construed only as minimal requirements established by the Graduate School. In addition, the student is obligated to meet all the requirements established by the individual department as described in the departmental sections.

Advisement and Program of Study
Academic advisement of entering graduate students will be provided by a designated faculty member in the student’s home department. Ideally, during the first semester of graduate enrollment a formal program of study should be developed and agreed upon in writing. This academic plan should include: (1) the sequence of required and elective courses, with a diversity of faculty instruction and a reasonable balance between course work and directed research appropriate for the degree; (2) evaluation of available transfer credit for application toward the degree; and (3) the schedule and procedures for departmental evaluation of the student. The program of study should be on file in the
student’s department and may be modified in keeping with the student’s progress toward the degree objective. This should become the responsibility of the student’s qualifying exam committee when it has been established.

**Foreign Language/Research Tool Requirements**

Although the Graduate School does not require a foreign language examination, some departments do have specific language requirements for their graduate programs. The foreign language requirement is determined by the individual departments or schools, subject to approval by the University Committee on Curriculum. When proficiency in a foreign language or a research tool is required, the evidence attesting to proficiency may not be more than five years old. This regulation applies regardless of the form of the evidence. For specific information, see Foreign Language/Research Tool Requirement under the appropriate department and program sections of this catalogue.

**Academic Warning and Dismissal**

Faculty advisers and departments take factors other than satisfactory grades and adequate GPAs into consideration in determining a student’s qualifications for an advanced degree. A student’s overall academic performance, specific skills and aptitudes, and faculty evaluations will be considered in departmental decisions regarding a student’s continuation in a master’s or doctoral degree program. Satisfactory progress toward an advanced degree as determined by the faculty is required at all times. Students who fail to make satisfactory progress will be so informed by their department or committee chair or school dean. The faculty has the right to recommend at any time after written warning that a student be dismissed from a graduate program for academic reasons or that a student be denied readmission.

**Transfer Credit**

The Degree Progress Department in the Office of Academic Records and Registrar determines whether course work taken elsewhere is available for transfer credit. Faculty of the student's degree program determine whether such credit is applicable toward a specific graduate degree, subject to approval by the dean of the degree-conferring unit. The faculty's decision should be made no later than the end of the first year in a master's program or the second year in a doctoral program.

Credit will only be allowed for courses (1) from an accredited graduate school, (2) of a quality of at least 3.0 on a 4.0 grading scale, (3) constituting a fair and reasonable equivalent to current USC course work at the graduate level and (4) logically fitting into the program for the degree. Transfer course work is applied as credit (CR) toward the degree and is not included in the calculation of a minimum grade point average for graduation.

Graduate transfer credit will not be granted for life experience, credit by examination, extension courses not accepted toward a degree by the offering institution, correspondence courses or thesis supervision. Graduate transfer credit will not be granted for course work taken elsewhere after a student has been admitted and enrolled at USC unless the student receives prior written approval from the department. Students may not take courses elsewhere as a substitute for courses in which they have received grades which fail to meet departmental or university requirements.

Transfer work must have been completed within seven years of admission to a USC master's degree program (or 10 years for a doctoral program) to be applied toward that degree. Departments have the option of reevaluating transfer work when a student is readmitted to a USC graduate degree program. The faculty of a degree program may establish limits on the number of transfer credits stricter than those of the university, which follow:
The maximum number of transfer credits which may be applied toward a master's degree, subject to departmental approval is: four units in degree programs requiring 24-32 units; eight units in programs requiring 33-40 units; 12 units in programs requiring 41 or more units. Except in formally designated dual degree programs, the same limits apply if a student wishes to transfer credits from any advanced degree previously completed at USC toward a master's degree.

The University Committee on Curriculum (UCOC) must approve policies and procedures for considering individual exceptions within any specific program of study. Program exceptions to the transfer of course work policies require the approval of the UCOC and are listed in the departmental sections of this catalogue. Departments establishing lower maximum limits may waive their own policy (within the university's limits) by approval of the dean of the degree conferring unit.

**Application of Previous USC Course Work to a Current Degree**

USC course work taken prior to matriculation to a current USC degree program must have been completed within seven years of admission or readmission to a master's degree program (or 10 years for a doctoral program) to be applied toward that degree. Exceptions require approval from the Associate Vice Provost for Graduate Programs.

**Credit Evaluation**

The purpose of the evaluation is to verify all previously earned degrees and may list graduate course work completed at other institutions which is available for consideration toward the USC degree. Students who intend to apply transfer course work toward a USC degree program can request a comprehensive credit evaluation through the Degree Progress Department. Only courses with a grade of B (3.0) and above are available for transfer. These courses do not apply toward a specific USC degree unless approved by the student's major department and school.

**Division Policy Regarding the Transfer or Substitution of Coursework**

The transfer of units into the Biokinesiology program requires the following approvals

1) Advisor approval  
2) Approval by the Graduate School  
3) Approval from the Director of the Biokinesiology program

Similarly, substituting a previously taken course for a required course within the Biokinesiology Program requires the following approvals

1) Advisor approval  
2) Approval of the course director  
3) Approval of the Director of the Biokinesiology program
In order to substitute a course for a required course, the student must provide evidence (i.e. texts, syllabus, etc.) that the content of the course to be substituted is equivalent in content to the course offered within the division.

**Division Policy Regarding Leave of Absence Policy**

Departments are permitted to grant Leaves of Absence without Graduate School approval for one semester at a time, for up to four semesters total for domestic students. International students must receive Office of International Services (OIS) approval for each semester, in addition to the department’s approval. After four semesters, additional Graduate School approval is required.

*Health Leave of Absence*

The purpose of the Voluntary Health Leave of Absence (VHLA) is to provide students time away from school for treatment of a physical or mental health condition that impairs a student’s ability to function safely and successfully as a member of our community. The authority to grant a VHLA and permission to return from a VHLA resides with the university’s Health Leave Coordinator (HLC) in consultation with the student’s academic unit, treatment providers and relevant campus partners, as needed. The Health Leave Coordinator aims to support the student through the process, providing information about guidance about the tasks associated with a health leave and helping the student to develop and implement a plan that will facilitate their recovery and return to school. A student may initiate a request for a VHLA by contacting the Health Leave office, at 213-740-0411.

**Process for Appealing Dismissal from the MS Program**

The student may appeal in writing to the department chair or program director within 30 days of the date of dismissal. If the student is dissatisfied with the outcome of the appeal, then, within 30 days of the date of the department’s or program’s decision, they may appeal in writing to the dean of the school. If the second appeal is unsuccessful, then the student may appeal in writing to the Vice Provost for Graduate Programs. Such an appeal must be received within 6 months after the student has received notice of the outcome of the school’s decision.
Division Requirements for the Masters Degree in Biokinesiology

Important facts

1) 32 units required for MS degree
2) Students must maintain at least a 3.0 GPA (grades less than “C” are considered failing)
3) MS students are considered full time if enrolled in at least 4 units. For students who have teaching or research assistantships, 6 units are required.
4) All MS students are required to attend the graduate student seminar and BKN survival series (usually held every other Thursday).

Required Courses (28 units required)

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<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td>BKN 550*</td>
<td>Neurobehavioral basis of movement</td>
<td>4</td>
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<tr>
<td>BKN 551*</td>
<td>Musculoskeletal and biomechanical basis of movement</td>
<td>4</td>
</tr>
<tr>
<td>BKN 552*</td>
<td>Physiological basis of voluntary movement</td>
<td>4</td>
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<tr>
<td>BKN 553</td>
<td>Experimental methods for the study of human movement</td>
<td>4</td>
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<tr>
<td>BKN 559</td>
<td>Readings in Biokinesiology</td>
<td>4</td>
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<tr>
<td>BKN 590</td>
<td>Directed research</td>
<td>4</td>
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<tr>
<td>PM 510</td>
<td>Principles of biostatistics</td>
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*Students must take at least 2 out of 3 core content courses (BKN 550, BKN 551, BKN 552).

Summative Research Experience

There is no Division requirement for a Master’s thesis or Comprehensive Examination. Instead, students are required to complete a summative research experience. The culminating event of the summative research experience can include, but is not limited to, the following: 1) Poster presentation at the Division Research Day or at a state or national conference, or 2) Oral presentation at Division Seminar or at a state or national conference.
Suggested Plan of Study - MS BKN

A suggested plan of study is outlined below. Students should consult with their academic advisor to set up a plan of study designed to meet individual needs.

**Year 1 (Fall)**
- BKN 551 Musculoskeletal and biomechanical basis of movement (4 units)
- BKN 553 Experimental methods for the study of human movement (4 units)

**Spring**
- BKN 550 Neurobehavioral basis of movement (4 units)
- BKN 552 Physiological basis of voluntary movement (4 units)

**Year 2 (Fall)**
- BKN 559 Readings in Biokinesiology (4 units)
- PM 510 Principles of biostatistics (4 units)

**Spring**
- BKN 590 Directed research (4 units)
- Elective(s) (4 units)

**Summative Research Requirement (BKN 559 & 590)**

There is no Division requirement for a Master’s thesis or Comprehensive Examination. Instead, students are required to complete a summative research experience. The culminating event of the summative research experience can include, but is not limited to, the following: 1) Poster presentation at the Division Research Day or at a state or national conference, or 2) Oral presentation at Division Seminar or at a state or national conference.

In order to fulfill the summative research requirement, the following plan is suggested however, each plan can be individualized based on the needs of the student and/or advisor.

1. Select a research professor (from the division) whose work interests them (Ideally this should be done by the end of Year 1)
2. After receiving the professor’s approval, register for BKN 559 (4 units) and complete a semester reading the literature pertinent to the professor’s work.
3. The following semester, sign up for BKN 590 (4 units) and participate in an ongoing research project which is being conducted by the professor.
Division Requirements for the Masters Degree-Emphasis in Sports Science in Biokinesiology

Important facts

5) 32 units required for MS degree
6) Students must maintain at least a 3.0 GPA (grades less than “C” are considered failing)
7) MS students are considered full time if enrolled in at least 4 units. For students who have teaching or research assistantships, 6 units are required.
8) All MS students are required to attend the graduate student seminar and BKN survival series (usually held every other Thursday).

Required Courses (24 units required)

BKN553: Experimental Methods for the Study of Human Movement (4 units)
BKN560: Movement Analysis for Sport (4 units)
BKN552: Physiological Basis of Voluntary Movement (4 units)
PM510 Principles of Biostatistics (4 units)
BKN590 Directed Research (summative research; 2 units)
BKN600 Sports Science Internship Units (2 units)

Students will take up to 8 units of electives MS Sports Science Emphasis. Elective courses indicated below are only suggested. Location within the schedule indicates when they are offered. Students will work with their advisor to set up a plan of study designed to meet needs.

Summative Research Experience

There is no Division requirement for a Master’s thesis or Comprehensive Examination. Instead, students are required to complete a summative research experience. The culminating event of the summative research experience can include, but is not limited to, the following: 1) Poster presentation at the Division Research Day or at a state or national conference, or 2) Oral presentation at Division Seminar or at a state or national conference.

In order to fulfill the summative research requirement, the following plan is suggested however, each plan can be individualized based on the needs of the student and/or advisor.

1. Select a research professor (from the division) whose work interests them (Ideally this should be done by the end of Year 1)
2. After receiving the professor’s approval, register for BKN 559 and complete a semester reading the literature pertinent to the professor’s work.
3. The following semester, sign up for BKN 590 and participate in an ongoing research project which is being conducted by the professor.
Suggested Plan of Study - MS BKN Sport Science emphasis

Year 1

(Fall)
    BKN560: Movement Analysis for Sport (4 units)
    BKN553: Experimental Methods for the Study of Human Movement (4 units)

(Spring)
    BKN 552: Physiological Basis of Voluntary Movement (4 units)
    Elective(s)

Year 2 - Availability, dates and required credits of internships will vary according to internship site. As a result, scheduling of Academic Year 2 will depend on 1) nature of student internship, 2) remaining required courses and 3) desired electives

(Summer)
    PM510 Principles of Biostatistics (4 units)
    Elective(s)

(Fall)
    **BKN590 Directed Research (summative research; 2-6 units)
    Elective(s)

(Spring)
    **BKN600 Sports Science Internship Units (2-6 units)
    Elective(s)

**Minimum requirement for BKN600 and BKN590 is 2 units.
Required Certifications & Health Related Requirements

Students enrolled in the Biokinesiology program are required to maintain the following certifications:

1) Collaborative IRB Training Initiative (CITI) certification. This online human subjects education program can be accessed online through the USC website. [http://www.usc.edu/admin/provost/oprs/citi](http://www.usc.edu/admin/provost/oprs/citi)

2) Health Insurance Portability and Accountability Act (HIPAA) certification. The HIPPA education program can be accessed through the USC Office of Compliance. [http://www.usc.edu/admin/compliance/hipaa_program.html](http://www.usc.edu/admin/compliance/hipaa_program.html)

3) Cardiopulmonary Resuscitation (CPR)
   CPR and Automated External Defibrillation (AED) certification is required, and must be kept current.

Additional information concerning the roles and responsibilities of student researchers at USC can be found at the following website: [http://www.usc.edu/admin/provost/oprs/research/student.html](http://www.usc.edu/admin/provost/oprs/research/student.html)

All students are required to have health insurance coverage while enrolled in the BKN program. Immunizations and titters are required as well as annual TB screenings. All health clearances must be kept current the entire time students are in the program.
The purpose of the BKN Student Council is to encourage interaction among students in the PhD and MS programs and represent BKN students at division-wide events. The Biokinesiology student body is represented by a student council consisting of 5 members: a President, one PhD representative from each research domain (Exercise Physiology, Biomechanics, Motor Behavior/Control/Development), and one Master’s student representative. Representatives will serve a one year term, starting in January and ending at the end of the calendar year.

**Elections:**
Council members will be elected by the BKN student body. Voting will occur in late November or early December of each year. Students will nominate candidates for the role of President, and then voting will occur. Following election of the President, students from each research domain will nominate and vote for their own representative. Only Master’s students will vote for the Master’s representative. Nominated candidates have the option of declining the nomination.

Typically, first year students are not nominated for representative positions. In addition, students usually serve one year as a representative before being nominated for the President position.

**Roles:**
The BKN Student Council President will oversee all representatives and will oversee BKN council activities and meetings. Council meetings should occur at least once a semester. The President will attend BKN faculty meetings as the student representative and will act as a liaison between the faculty and the BKN student body.

The PhD and Master’s student representatives will bring any concerns, comments, and questions from their respective sections to the attention of the President. The representatives also will assist in planning various activities throughout the year.

As a whole, the BKN Student Council will strive to address the concerns of BKN students and encourage representation of BKN students at division-wide events.
Biokinesiology Seminar/Survival Series

The Biokinesiology Seminar/Survival series is held weekly (either Tuesday or Wednesday) from 12-1 pm throughout the fall and spring semesters. Students will be assigned a date to present once every academic year. Students who are in their first year or last year of the PhD program can be excused from presenting. Presentations should be 25-30 minutes in length. The goal of the presentation should be to generate discussion among students and faculty on the given topic.

Three faculty members and one student will be assigned to each week’s seminar to serve the role of discussion facilitators. Faculty will gage questions and discussion in accordance with the student’s level in the program. The goal is to create a positive and collaborative environment to help stimulate thought and discussion.

Attendance of all BKN students is mandatory. To be excused from seminar, the following procedure needs to be followed:

1) Obtain approval from your advisor.
2) Obtain approval from the director of the BKN program.
3) Once both approvals have been obtained, please notify the BKN student in charge of attendance so they can mark you down as “excused”.

Unexcused absences from seminar are not permitted. An unavoidable class conflict or attendance at a scientific meeting is a valid excuse for missing seminar. Data collection is NOT a valid excuse for missing seminar!
Biokinesiology Sport Science Seminar

The Biokinesiology Sport Science Seminar is held every other week (day and time TBD) throughout the fall and spring semesters. These meetings are scheduled to allow for guest speakers, student presentations and program updates.

Attendance of all MS students in the sports science emphasis is mandatory. To be excused from seminar, you must obtain approval from the director of the MS program.
INTRODUCTION

“The scientific research enterprise, like other human activities, is built on a foundation of trust. Scientists trust that the results reported by others are valid. Society trusts that the results of research reflect an honest attempt by scientists to describe the world accurately and without bias. The level of trust that has characterized science and its relationship with society has contributed to a period of unparalleled scientific productivity. But this trust will endure only if the scientific community devotes itself to exemplifying and transmitting the values associated with ethical scientific conduct” (1).

The faculty of the Division of Biokinesiology and Physical Therapy has identified two areas of ethical conduct we believe are critical to your development as an independent researcher: 1) faculty and graduate student relations, and 2) responsible conduct in research. In an effort to familiarize you with these areas we have organized the following references for your review. Please take time to review these materials and discuss them with your advisor. Once reviewed, please sign the attached signature page. This written assurance of ethical conduct will be kept in your student file for the duration of your tenure as a graduate student in the Division of Biokinesiology and Physical Therapy.

ACADEMIC INTEGRITY: A GUIDE FOR GRADUATE STUDENTS
Reference: Student Handbook: USC Office of Student Affairs

ON BEING A SCIENTIST: RESPONSIBLE CONDUCT IN RESEARCH

AGREEMENT:

Your signature indicates that you have read the attached documents and that you agree to adhere to the policies and procedures required for ethical scientific study.

Student’s Name ________________________________

Students Signature _______________________________ Date ______________