

# KINESIOLOGY: MOTOR CONTROL AND BEHAVIOR, MS

This is a named option in the Kinesiology, MS. (<https://guide.wisc.edu/graduate/kinesiology/kinesiology-ms/>) For more information, please see our program website (<https://kinesiology.education.wisc.edu/academics/grad-program/>).

The graduate program in Motor Control and Behavior involves advanced study of the psychological and neurophysiological foundations of motor control, motor learning, motor development, and disorders of movement. The program emphasizes the development of a competent independent researcher and is designed to provide a thorough grounding in the area of motor performance, exposing the student to the underlying theoretical processes that influence the control, acquisition, and development of motor behavior. Students may focus specifically on control, learning, or developmental issues, or design their program to expose them to a broad range of study in motor behavior. The graduate student will work closely with their advisor in both formal and informal educational settings. The Motor Control and Behavior named option in the Kinesiology MS is designed toward 1) introducing the beginning graduate student to the field of Motor Control and Behavior, including the areas of the neural control of movement, motor learning, and motor development; and 2) preparing students for advanced PhD work.

Several laboratories (human, animal) are available for research in the area of Motor Control and Behavior. The Human Motor Behavior Laboratory (<https://kinesiology.education.wisc.edu/research/motor-behavior-lab/>) is an active research environment where faculty and students collaborate on projects aimed at gaining a better understanding of the planning and performance of simple and complex upper and lower limb activities in both natural and virtual environments. The Motor Systems Physiology Laboratory (<https://kinesiology.education.wisc.edu/research/motor-systems-physiology-lab/>) focuses on understanding the neural control of reaching to grasp, which is essential to primate motor behavior and strongly depends on cerebellar function. The Sensory Motor Integration Lab (SMIL) (<https://kinesiology.education.wisc.edu/research/pickett-lab-smil/>) focuses on improving the everyday lives of older adults through the implementation of physical activity interventions—delivered in-home via telehealth and through group classes held at community-based facilities. The Neuromuscular Coordination Laboratory (<https://ncl.labs.wisc.edu/>) conducts fundamental research on the interactions between mechanics, neural control, and muscular coordination that allow humans and other animals to navigate their environments.

## ADMISSIONS

### ADMISSIONS

Please consult the table below for key information about this degree program's admissions requirements. The program may have more detailed admissions requirements, which can be found below the table or on the program's website.

Graduate admissions is a two-step process between academic programs and the Graduate School. **Applicants must meet the minimum requirements (<https://grad.wisc.edu/apply/requirements/>) of the**

**Graduate School as well as the program(s).** Once you have researched the graduate program(s) you are interested in, apply online (<https://grad.wisc.edu/apply/>).

Requirements	Detail
Fall Deadline	December 1
Spring Deadline	September 1
Summer Deadline	This program does not admit in the summer.
GRE (Graduate Record Examinations)	Not required.
English Proficiency Test	Every applicant whose native language is not English, or whose undergraduate instruction was not exclusively in English, must provide an English proficiency test score earned within two years of the anticipated term of enrollment. Refer to the Graduate School: Minimum Requirements for Admission policy: <a href="https://policy.wisc.edu/library/UW-1241">https://policy.wisc.edu/library/UW-1241</a> ( <a href="https://policy.wisc.edu/library/UW-1241/">https://policy.wisc.edu/library/UW-1241/</a> ).
Other Test(s) (e.g., GMAT, MCAT)	n/a
Letters of Recommendation Required	3

For admission, the Graduate School requires, as does the Kinesiology department, a minimum 3.0 GPA (on a 4.0=A scale) on the last 60 semester hours (or equivalent) of undergraduate coursework. An applicant must submit academic transcripts from each institution attended and a statement of reasons for graduate study. If a professor in the area of interest agrees to serve as the prospective student's advisor, then the department's graduate office recommends the applicant for admission to the Graduate School. Please consult the Kinesiology website (<https://kinesiology.education.wisc.edu/graduate-admissions/kinesiology-graduate-admissions/>) for further details of these requirements and procedures.

## FUNDING

### FUNDING

#### GRADUATE SCHOOL RESOURCES

[The Bursar's Office provides information about tuition and fees associated with being a graduate student.](#) [Resources to help you afford graduate study might include assistantships, fellowships, traineeships, and financial aid.](#) [Further funding information is available from the Graduate School.](#) Be sure to check with your program for individual policies and restrictions related to funding.

## REQUIREMENTS

### MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum degree requirements (<https://guide.wisc.edu/graduate/#requirements-text>) and policies (<https://guide.wisc.edu/graduate/#policies-text>), in addition to the program requirements listed below.

## NAMED OPTION REQUIREMENTS MODE OF INSTRUCTION

Face to Face	Evening/ Weekend	Online	Hybrid	Accelerated
Yes	No	No	No	No

### Mode of Instruction Definitions

**Accelerated:** Accelerated programs are offered at a fast pace that condenses the time to completion. Students typically take enough credits aimed at completing the program in a year or two.

**Evening/Weekend:** Courses meet on the UW–Madison campus only in evenings and/or on weekends to accommodate typical business schedules. Students have the advantages of face-to-face courses with the flexibility to keep work and other life commitments.

**Face-to-Face:** Courses typically meet during weekdays on the UW–Madison Campus.

**Hybrid:** These programs combine face-to-face and online learning formats. Contact the program for more specific information.

**Online:** These programs are offered 100% online. Some programs may require an on-campus orientation or residency experience, but the courses will be facilitated in an online format.

## CURRICULAR REQUIREMENTS

Requirements	Detail
Minimum Credit Requirement	30 credits
Minimum Residence Credit Requirement	16 credits
Minimum Graduate Coursework Requirement	15 credits must be graduate-level coursework. Refer to the Graduate School: Minimum Graduate Coursework (50%) Requirement policy: <a href="https://policy.wisc.edu/library/UW-1244">https://policy.wisc.edu/library/UW-1244</a> ( <a href="https://policy.wisc.edu/library/UW-1244/">https://policy.wisc.edu/library/UW-1244/</a> ).
Overall Graduate GPA Requirement	3.00 GPA required. Refer to the Graduate School: Grade Point Average (GPA) Requirement policy: <a href="https://policy.wisc.edu/library/UW-1203">https://policy.wisc.edu/library/UW-1203</a> ( <a href="https://policy.wisc.edu/library/UW-1203/">https://policy.wisc.edu/library/UW-1203/</a> ).
Other Grade Requirements	n/a
Assessments and Examinations	Not required.
Language Requirements	No language requirements.

## REQUIRED COURSES

Code	Title	Credits
<b>Core</b>		
KINES 900	Seminar in Kinesiology <sup>1</sup>	4
KINES 990	Research or Thesis	4+
KINES 991	Research in Physical Activity-Theory and Design	3

**Statistics courses (2 courses, chosen in consultation with advisor, example sequences below):** **6-8**

ED PSYCH 760 & ED PSYCH 761 Statistical Methods Applied to Education I and Statistical Methods Applied to Education II

STAT/F&W ECOL 571 & STAT/F&W ECOL 572 Statistical Methods for Bioscience I and Statistical Methods for Bioscience II

### Suggested Elective Courses <sup>2</sup> **11-13**

KINES 713	Neural Basis of Normal and Pathological Movement
KINES 721	Neural Basis for Movement
KINES 861	Principles of Motor Control and Learning
KINES 951	Seminar-Biomechanics
KINES 961	Seminar in Motor Control and Learning

**Total Credits** **30**

<sup>1</sup> All Kinesiology MS and PhD students are required to register for KINES 900 Seminar in Kinesiology for 1 credit each semester they are enrolled in the program, for a minimum of 4 credits.

<sup>2</sup> Elective courses to meet the degree requirements are chosen in consultation with the advisor from this list or any course numbered 300 or above on campus. Each candidate's program of formal course work and independent study is tailored in a personalized manner to accommodate the individual's research and career goals.

## POLICIES

### GRADUATE SCHOOL POLICIES

The Graduate School's Academic Policies and Procedures (<https://grad.wisc.edu/acadpolicy/>) serve as the official document of record for Graduate School academic and administrative policies and procedures and are updated continuously. Note some policies redirect to entries in the official UW-Madison Policy Library (<https://policy.wisc.edu/>). Programs may set more stringent policies than the Graduate School. Policies set by the academic degree program can be found below.

### NAMED OPTION-SPECIFIC POLICIES

#### PRIOR COURSEWORK

##### Graduate Credits Earned at Other Institutions

With program approval, students are allowed to transfer no more than 14 credits of graduate coursework from other institutions. Coursework earned ten or more years prior to admission to a master's degree is not allowed to satisfy requirements.

##### Undergraduate Credits Earned at Other Institutions or UW-Madison

No credits from an other institution or UW-Madison undergraduate degree are allowed to transfer toward the degree.

## Credits Earned as a Professional Student at UW-Madison (Law, Medicine, Pharmacy, and Veterinary careers)

Refer to the Graduate School: Transfer Credits for Prior Coursework (<https://policy.wisc.edu/library/UW-1216/>) policy.

## Credits Earned as a University Special Student at UW-Madison

Refer to the Graduate School: Transfer Credits for Prior Coursework (<https://policy.wisc.edu/library/UW-1216/>) policy.

## PROBATION

Refer to the Graduate School: Probation (<https://policy.wisc.edu/library/UW-1217/>) policy.

## ADVISOR / COMMITTEE

Refer to the Graduate School: Advisor (<https://policy.wisc.edu/library/UW-1232/>) and Graduate School: Committees (Doctoral/Master's/MFA) (<https://policy.wisc.edu/library/UW-1201/>) policies.

Primary faculty mentor will be the main advisor. The Director of Graduate Studies and Graduate Program Manager will provide additional support and advising as needed.

## CREDITS PER TERM ALLOWED

15 credits

## TIME LIMITS

Refer to the Graduate School: Time Limits (<https://policy.wisc.edu/library/UW-1221/>) policy.

Within the Department, completion of required courses within two years of matriculation is considered satisfactory progress. See the Graduate Program Handbook link in Contact Information for more information.

## GRIEVANCES AND APPEALS

These resources may be helpful in addressing your concerns:

- Bias or Hate Reporting (<https://doso.students.wisc.edu/bias-or-hate-reporting/>)
- Graduate Assistantship Policies and Procedures (<https://hr.wisc.edu/policies/gapp/#grievance-procedure>)
- Hostile and Intimidating Behavior Policies and Procedures (<https://hr.wisc.edu/hib/>)
  - Office of the Provost for Faculty and Staff Affairs (<https://facstaff.provost.wisc.edu/>)
- Employee Assistance (<http://www.eao.wisc.edu/>) (for personal counseling and workplace consultation around communication and conflict involving graduate assistants and other employees, post-doctoral students, faculty and staff)
- Employee Disability Resource Office (<https://employeedisabilities.wisc.edu/>) (for qualified employees or applicants with disabilities to have equal employment opportunities)
- Graduate School (<https://grad.wisc.edu/>) (for informal advice at any level of review and for official appeals of program/departmental or school/college grievance decisions)
- Office of Compliance (<https://compliance.wisc.edu/>) (for class harassment and discrimination, including sexual harassment and sexual violence)

- Office Student Assistance and Support (OSAS) (<https://osas.wisc.edu/>) (for all students to seek grievance assistance and support)
- Office of Student Conduct and Community Standards (<https://conduct.students.wisc.edu/>) (for conflicts involving students)
- Ombuds Office for Faculty and Staff (<http://www.ombuds.wisc.edu/>) (for employed graduate students and post-docs, as well as faculty and staff)
- Title IX (<https://compliance.wisc.edu/titleix/>) (for concerns about discrimination)

## School of Education Grievance Policy and Procedures

The following School of Education Student Grievance Policy and associated procedures are designed for use in response to individual student grievances regarding faculty or staff in the School of Education.

Any individual student who feels they have been treated unfairly by a School of Education faculty or staff member has the right to file a grievance about the treatment and receive a timely response addressing their concerns. Any student, undergraduate or graduate, may use these grievance procedures, except employees whose complaints are covered under other campus policies. The grievance may concern classroom treatment, mentoring or advising, program admission or continuation, course grades (study abroad grade complaints are handled through International Academic Programs (<https://studyabroad.wisc.edu/>)), or issues not covered by other campus policies or grievance procedures.

For grievances regarding discrimination based on protected bases (<https://compliance.wisc.edu/eo-complaint/>) (i.e., race, color, national origin, sex, disability, age, etc.), contact the Office of Compliance (<https://compliance.wisc.edu/eo-complaint/>).

For grievances or concerns regarding sexual harassment or sexual violence (including sexual assault, dating/domestic violence, stalking, and sexual exploitation), contact the Sexual Misconduct Resource and Response Program (<https://compliance.wisc.edu/titleix/>) within the Office of Compliance.

For grievances that involve the behavior of a student, contact the Office of Student Conduct and Community Standards in the Dean of Students Office at <https://conduct.students.wisc.edu/>.

For grievances about, or directed at, faculty or staff in a School of Education department, unit, or program, students should follow these steps:

1. Students are strongly encouraged to first talk with the person against whom the concern is directed. Many issues can be settled informally at this level. If students are unable to resolve concerns directly or without additional support, step 2 or 3 should be pursued.
2. If unresolved after taking or considering step 1:
  - a. If the concern is directed against a teaching assistant (TA), and the student is not satisfied, the student should contact the TA's supervisor, who is usually the course professor. The course professor will attempt to resolve the concern informally.
  - b. If the concern involves a non-TA instructor, staff member, professor, academic department, or School of Education office or unit, the student should contact the chair of the department or the director of the office or unit, or their designee. The chair or director, or their designee, will attempt to resolve the concern informally. If the concern

is about the department chair or office/unit director, the student should consult the School of Education Senior Associate Dean for guidance.

3. If the concern remains unresolved after step 2, the student may submit a formal grievance to the chair or director in writing within 30 business days<sup>1</sup> of the alleged unfair treatment. To the fullest extent possible, a formal written grievance shall contain a clear and concise statement of the issue(s) involved and the relief sought.
4. On receipt of a written grievance, the chair or director will notify the person at whom the grievance is directed with a copy of the written grievance. The person at whom the complaint is directed may submit a written response, which would be shared with the student.
5. On receipt of a written grievance, the chair or director will refer the matter to a department, office, or unit committee comprised of at least two members. The committee may be an existing committee or one constituted for this purpose. The committee, or delegates from the committee, may meet with the parties involved and/or review any material either party shares with the committee.
6. The committee will provide a written description of the facts of the grievance and communicate recommendations to the department chair or office/unit head regarding how the grievance should be handled.
7. The chair or director will offer to meet with the student who made the grievance and also will provide a written decision to the student, including a description of any related action taken by the committee, within 30 business days of receiving the formal grievance.

<sup>1</sup> For the purpose of this policy, business days refers to those days when the University Offices are open and shall not include weekends, university holidays, spring recess, or the period from the last day of exams of fall semester instruction to the first day of spring semester instruction. All time limits may be modified by mutual consent of the parties involved.

If the grievance concerns an undergraduate course grade, the decision of the department chair after reviewing the committee's recommendations is final.

Other types of grievances may be appealed using the following procedures:

1. Both the student who filed the grievance or the person at whom the grievance was directed, if unsatisfied with the decision of the department, office or unit, have five (5) business days from receipt of the decision to contact the Senior Associate Dean, indicating the intention to appeal.
2. A written appeal must be filed with the Senior Associate Dean within 10 business days of the time the appealing party was notified of the initial resolution of the complaint.
3. On receipt of a written appeal, the Senior Associate Dean will convene a sub-committee of the School of Education's Academic Planning Council. This subcommittee may ask for additional information from the parties involved and/or may hold a meeting at which both parties will be asked to speak separately (i.e., not in the room at the same time).

4. The subcommittee will then make a written recommendation to the Dean of the School of Education, or their designee, who will render a decision. The dean or designee's written decision shall be made within 30 business days from the date when the written appeal was filed with the Senior Associate Dean. For undergraduate students, the dean or designee's decision is final.

Further appealing a School of Education decision – *graduate students only*

Graduate students have the option to appeal decisions by the School of Education dean or designee by using the process detailed on the Graduate School's website (<https://grad.wisc.edu/documents/grievances-and-appeals/>).

Questions about these procedures can be directed to the School of Education Dean's Office, 377 Education Building, 1000 Bascom Mall, 608-262-1763.

### Resources

- Office of Compliance (<https://compliance.wisc.edu/>) (for discrimination based on protected classes, including misconduct) 179A Bascom Hall, 608-262-2378
- Office of Student Conduct and Community Standards (<https://conduct.students.wisc.edu/>) (for conflicts between students, or academic integrity violations) 70 Bascom Hall, 608-263-5700
- Bias or Hate Reporting (<https://doso.students.wisc.edu/bias-or-hate-reporting/>) (for students who experience or observe bias or hate incidents) 70 Bascom Hall, 608-263-5700
- Graduate School (<https://grad.wisc.edu/>) (for graduate students who need informal advice at any level of review; for official appeals of program/departmental or school/college grievance decisions, see Graduate Assistant Policies and Procedures (<https://hr.wisc.edu/policies/gapp/>)) 217 Bascom Hall, 608-262-2433
- Ombuds Office for Faculty and Staff (<http://www.ombuds.wisc.edu/>) (for UW-Madison employees, including graduate students) 523-524 Lowell Center, 608-265-9992
- Employee Assistance (<http://www.eao.wisc.edu/>) (for conflicts involving graduate assistants and other employees) 256 Lowell Hall, 608-263-2987
- Office of Human Resources (<https://kb.wisc.edu/ohr/policies/search.php?cat=4506>) for policies and procedures to address workplace conflict) 21 N Park Street Suite 5101, 608-265-2257
- Office of Student Assistance and Support (<https://osas.wisc.edu/>) (OSAS) (for any students needing advice or support) 70 Bascom Hall, 608-263-5700
- School of Education, Office of Student Services (<https://education.wisc.edu/about/student-services/>) (for students, particularly undergraduates, in the School of Education) 139 Education Building, 608-262-1651
- School of Education, Office of Equity, Diversity, and Inclusion (<https://education.wisc.edu/about/diversity-inclusion/>) (OEDI) 145 Education Building, 608-262-8427

### OTHER

n/a

## PROFESSIONAL DEVELOPMENT

### **PROFESSIONAL DEVELOPMENT GRADUATE SCHOOL RESOURCES**

Take advantage of the Graduate School's professional development resources (<https://grad.wisc.edu/pd/>) to build skills, thrive academically, and launch your career.