

Accelerated Coursework Master's in Kinesiology at Michigan Technological University

October 24, 2014

Guidelines and Requirements

1. This program provides an opportunity for students to earn, at an accelerated pace, both a bachelor's degree and a coursework master's degree (in Kinesiology) from Michigan Tech.
2. Students who are interested in pursuing an accelerated M.S. in Kinesiology should meet with the Graduate Program Director for the Kinesiology graduate program in order to receive the guidance necessary for timely completion of the degree (<http://www.mtu.edu/kip/graduate/kinesiology/>)
3. In order to be formally accepted into an accelerated M.S. in Kinesiology program, students must apply to, and be accepted into, the Graduate School at Michigan Tech. All applications will be reviewed by faculty in the Department of Kinesiology and Integrative Physiology.
4. Students must complete all requirements for the accelerated master's degree within five years from the time they are accepted into the accelerated master's program.
5. Students who complete their bachelor's degree at Michigan Tech in one of the following programs are eligible to apply to the accelerated M.S. in Kinesiology program:
 - B.S. in Exercise Science
 - B.S. in Sports and Fitness Management
 - B.S. in Biological Sciences – Pre-Professional Option
 - B.S. in Biomedical Engineering
6. The following three courses are eligible for double counting toward both a B.S. and the accelerated master's degree in Kinesiology. A maximum of six credits can be double counted. Courses approved for double counting must be clearly identified as such on the master's degree schedule. Students must earn a grade of B or higher for these courses to be applied toward the accelerated M.S. in Kinesiology.
 - EH 4210 – Exercise Physiology (3 credits)
 - EH 4400 – Motor Learning and Control (3 credits)
 - EH 4500 – Biomechanics of Human Movement (3 credits)
7. Only students with a cumulative GPA of 3.25 or above are eligible to enter the accelerated master's program.
8. Students may apply for admission to the accelerated master's program any time after they attain junior level class standing and up until the time that they are awarded their bachelor's degree.
9. Students who are accepted in the accelerated master's program will not be allowed to continue in this program if their cumulative undergraduate GPA drops below 3.25. However, such student will be eligible to apply through the non-accelerated master's degree option.
10. Students will be considered undergraduates for the purposes of financial aid, tuition, and class standing until their undergraduate degree has been awarded. Once students are

awarded their undergraduate degree, they will be considered graduate students for the purposes of financial aid, and tuition.

11. Once students have been awarded their undergraduate degree, they will be considered graduate students and will be expected to adhere to all policies and procedures related to graduate education at Michigan Tech.
12. Students already enrolled in a graduate degree program cannot retroactively apply to this accelerated program.
13. In addition to the six (6) credits that can be “double counted” with the Accelerated M.S. option, up to three (3) additional credits may be taken under Senior Rule. For the motivated undergraduate student, the senior rule offers the ability to reduce the number of credits taken while enrolled as a graduate student from 30 credit to 21 credits (if combined accelerated and senior rule options are approved). Senior rule allows for certain courses to be approved for graduate study while students are in their final year of undergraduate study. However, the senior rule course credits are reserved for the graduate transcript and *cannot* be used to satisfy undergraduate degree requirements (i.e., no double counting like the accelerated option). Senior rule forms need to be completed by the end of the first week of the semester the course is being taken, and require the signature of the department chair, so students should plan early and discuss senior rule with their academic advisor in advance of the semester they plan to take a potential senior rule course. Only approved graduate elective courses are eligible for consideration (see Appendix A).

Accelerated Coursework Master’s in Kinesiology – Degree Requirements

Degree Requirements for Coursework Option

Assuming a student is accepted into the Accelerated Coursework Master’s in Kinesiology and approved to apply 6 credits as outlined in the guidelines and requirements section above, students will be required to take 24 course credits, with the following requirements:

Required Core Courses (15-18 credits)

- *Two of the following three courses:*
 - EH 5310: Advanced Exercise Physiology (3 credits)
 - EH 5320: Advanced Biomechanics (3 credits)
 - EH 5330: Advanced Motor Behavior (3 credits)
- *Both of the following courses:*
 - EH 5950: Graduate Kinesiology Internship (4-6 credits)
 - EH 5920: Graduate Seminar (1 credit)*

* NOTE: A minimum of 2 graduate seminar credits are required.
- *At least one of the following statistics courses:*
 - BE 5550: Biostatistics for Health Science Research (4 credits)
 - MA 3740: Stat Programming and Analysis (3 credits)
 - MA 4710: Regression Analysis (3 credits)

- MA4720: Design and Analysis of Experiments (3 credits)
- MA 5701: Statistical Methods (3 credits)
- PSY 5210: Advanced Statistical Analysis and Design I (4 credits)
- PSY 5220: Advanced Statistical Analysis and Design II (4 credits)

Elective Courses

- A minimum of 12 elective course credits approved by graduate program director or department chair. A list of approved elective courses within and outside the department is provided in Appendix A, and this list will be updated annually by the department. Courses not on this list, but deemed relevant and appropriate by the student and advisor, may be used ad hoc if written approval is obtained from the graduate program director or KIP department chair.

These degree requirements are consistent with University policy related to the distribution of credits for the Coursework option master's degrees (i.e., minimum of 18 credits at 5000-6000 level, maximum of 12 credits at 3000-4000 level). A minimum of 30 credits total are required for completion of a master's degree.

APPENDIX A

Approved electives for the Accelerated MS in Kinesiology. This list will be updated annually by the department. Courses not on this list, but deemed relevant and appropriate by the student and advisor, may be used ad hoc if written approval is obtained from the graduate program director or KIP department chair.

BE 5550 - Biostatistics for Health Science Research
BL 4010 - Biochemistry I
BL 4020 - Biochemistry II
BL 4380 - Cardiopulmonary Physiology
BL 5350 - Special Topics in Physiology
EH 4200 - Sports Nutrition Seminar
EH 4210 - Exercise Physiology
EH 4211 - Exercise Physiology Laboratory
EH 4220 - EKG Interpretation
EH 4400 - Motor Learning and Control
EH 4420 - Motor Development
EH 4500 - Biomechanics of Human Movement
EH 4600 - Sports and Fitness Promotions
EH 4620 - Legal Issues in Sport and Fitness Management
EH 5350 - Special Topics in Kinesiology
MA 3740 - Stat Programming and Analysis
MA 4710 - Regression Analysis
MA 4720 - Design and Analysis of Experiments
MA 5701 - Statistical Methods
PSY 5010 - Cognitive Psychology
PSY 5210 - Advanced Statistical Analysis and Design I
PSY 5220 - Advanced Statistical Analysis and Design II
PSY 5850 - Human Factors Psychology
PSY 6991 - Special Topics in Human Factors
EH 5310 - Advanced Exercise Physiology
EH 5320 - Advanced Biomechanics
EH 5330 - Advanced Motor Behavior
EH 4710 - Stress Physiology
EH 4720 - Sleep and Circadian Physiology
EH 4730 - Neuroendocrine Physiology
EH 4760 - Computational Biomechanics
EH 4770 - Specificity of Exercise Assessment and Prescription
EH 5500 - Advanced Sport Psychology
EH 5510 - Advanced Strength and Conditioning
EH 5900 - Laboratory Techniques in Integrative Physiology

APPENDIX B

Below is a mock schedule of how a student coming from one of the approved degrees obtain progress through the coursework option of the proposed accelerated MS in Kinesiology. This mock schedule is only meant to provide one pathway; in reality, there are enough approved course electives through our department, Biological Sciences, Biomedical Engineering, Mathematical Sciences, and Cognitive and Learning Sciences to allow this to occur many ways.

Assumption: 6 credits of double-counting between one of the approved B.S. degree and the proposed accelerated M.S. in Kinesiology. This would result in 24 remaining credits.

Fall 2014

Required courses:

EH 5320	Advanced Biomechanics	3 credits
EH 5330	Advanced Motor Behavior	3 credits
MA 5701	Statistical Methods	3 credits
EH 5920	Graduate Seminar	<u>1 credit</u>
		10 credits

Spring 2015

Required courses:

EH 5310	Advanced Exercise Physiology	3 credits
EH 5920	Graduate Seminar	1 credit

Elective course:

EH 4710	Stress Physiology	2 credits
EH 4710	Advanced Strength & Conditioning	<u>1 credit</u>
		10 credits

Summer 2015

Required courses:

EH 5950	Graduate Internship in Kinesiology	<u>4 credits</u>
		4 credits