Twin Cities Campus

Kinesiology Ph.D.

Kinesiology, School of

College of Education and Human Development

Link to a list of faculty for this program.

Contact Information:

School of Kinesiology, 1900 University Avenue SE, Minneapolis, MN 55455 (612-625-5300; fax: 612-626-7700)

Email: kin@umn.edu

Website: http://cehd.umn.edu/kin

- Program Type: Doctorate
- Requirements for this program are current for Fall 2018
- Length of program in credits: 60 to 72
- This program does not require summer semesters for timely completion.
- Degree: Doctor of Philosophy

Along with the program-specific requirements listed below, please read the <u>General Information</u> section of the catalog website for requirements that apply to all major fields.

PhD students pursue an individualized program with an emphasis in behavioral aspects of physical activity, biomechanics and neuromotor control, exercise physiology, perceptual-motor control and learning, physical activity and health, sport and exercise psychology, sport management or sport sociology.

Program Delivery

This program is available:

• via classroom (the majority of instruction is face-to-face)

Prerequisites for Admission

The preferred undergraduate GPA for admittance to the program is 3.00.

It is preferred that applicants have completed a master's degree in the field of kinesiology or a related field and achieved an overall minimum GPA of 3.50.

Other requirements to be completed before admission:

Applicants must have completed a baccalaureate degree, generally in the following areas: kinesiology; exercise science; sport management; sport psychology/sociology; movement science; or related preparation and significant background and interest in the scientific study of physical activity.

Special Application Requirements:

Applicants must submit a University of Minnesota application which includes a written statement of academic interests, goals, and objectives; scores from the General Test of the GRE (verbal, quantitative, and analytical writing) that are less than five years old; three recommendations from persons familiar with their scholarship and research potential; a scholarly writing sample; and transcripts. Submission of all application materials by December 1 ensures priority consideration for admission and for teaching and research assistantships awarded for the next academic year. Students are admitted for the fall semester only.

Applicants must submit their test score(s) from the following:

- GRE
- General Test Verbal Reasoning: 153
- General Test Quantitative Reasoning: 153
- General Test Analytical Writing: 4.5

International applicants must submit score(s) from one of the following tests:

- TOEFL
- Internet Based Total Score: 79
- Internet Based Listening Score: 14
- Internet Based Writing Score: 21
- Internet Based Reading Score: 19
- Internet Based Speaking Score: 23

- Paper Based - Total Score: 550

• IELTS

- Total Score: 6.5

MELAB

- Final score: 80

The preferred English language test is Test of English as Foreign Language

Key to test abbreviations(GRE, TOEFL, IELTS, MELAB).

For an online application or for more information about graduate education admissions, see the <u>General Information</u> section of the catalog website.

Program Requirements

24 to 29 credits are required in the major. 12 to 19 credits are required outside the major. 24 thesis credits are required.

This program may be completed with a minor.

Use of 4xxx courses towards program requirements is not permitted.

A minimum GPA of 3.00 is required for students to remain in good standing.

The PhD requires 36 to 48 course credits and 24 thesis credits. A minimum total of 60 credits and a maximum total of 72 credits are required to complete the program. Course credits include a minimum of 15 major program credits (including 3 credits of KIN 8980 Graduate Research Seminar), 6 credits in a supporting program or 12 credits in a doctoral minor, 6 research skills course credits, and 9 credits of mentored research experience. At least 6 major course credits, 6 research skills course credits, and 6 mentored experience course credits must be taken as a U of M enrolled student. A GPA of at least 3.00 is required to maintain good standing and to graduate.

Required Kinesiology Courses

A minimum of 3 credits of KIN 8980 and a minimum of 9 credits of KIN 8995 are required over the course of the program for all emphasis areas listed below.

KIN 8980 - Graduate Research Seminar in Kinesiology (3.0 cr)

KIN 8995 - Research Problems in Kinesiology (1.0 - 12.0 cr)

Emphasis Areas

Kinesiology PhD students pursue an individualized program with an emphasis in behavioral aspects of physical activity, biomechanics and neuromotor control, exercise physiology, perceptual-motor control and learning, physical activity and health, sport and exercise psychology, sport management or sport sociology.

Behavioral Aspects of Physical Activity

Behavioral Aspects of Physical Activity examines behavioral interventions for physical activity adoption and maintenance; the epidemiology of physical activity; psycho-social theories related to physical activity promotion; understanding sedentary behavior; and the objective and subjective assessment of physical activity. Interdisciplinary research is conducted with other departments including medicine, nursing, public health, epidemiology, physiology, nutrition, psychology, etc.

Emphasis courses

A minimum of 12 course credits must be selected from the following list. At least 3 credits must be KIN 8xxx.

KIN 5123 - Motivational Interventions in Physical Activity (3.0 cr)

or KIN 5125 - Advances in Physical Activity and Health (3.0 cr)

or KIN 5126 - Social Psychology of Sport & Physical Activity (3.0 cr)

or KIN 5141 - Nutrition and Exercise for Health Promotion and Disease Prevention (3.0 cr)

or KIN 5371 - Sport and Society (3.0 cr)

or KIN 5375 {Inactive}(3.0 cr)

or KIN 5385 - Exercise for Healthy Aging & Disease Prevention and Management (3.0 cr)

or KIN 5511 - Sport and Gender (3.0 cr)

or KIN 5720 - Special Topics in Kinesiology (2.0 - 4.0 cr)

or KIN 8126 - Sports Medicine Psychology (3.0 cr)

or KIN 8136 - Developmental Sport and Exercise Psychology (3.0 cr)

Research skills courses

A minimum 6-9 research skills courses credits are required, selected from the following list or in consultation with the adviser. Courses taken to fulfill the research skills courses requirement cannot be double counted to fulfill the supporting program

requirement.

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KIN 5981 - Research Methodology in Kinesiology and Sport Management (3.0 cr)
or EPSY 5247 - Qualitative Methods in Educational Psychology (3.0 cr)
or EPSY 8247 {Inactive}(3.0 cr)
or EPSY 8251 - Statistical Methods in Education I (3.0 cr)
or EPSY 8252 - Statistical Methods in Education II (3.0 cr)
or EPSY 8264 - Advanced Multiple Regression Analysis (3.0 cr)
or EPSY 8266 - Statistical Analysis Using Structural Equation Methods (3.0 cr)
or EPSY 8267 - Applied Multivariate Analysis (3.0 cr)
or PUBH 6450 - Biostatistics I (4.0 cr)
or PUBH 6451 - Biostatistics II (4.0 cr)
or PUBH 6636 - Qualitative Research Methods in Public Health Practice (2.0 cr)
or PUBH 6673 - Grant Writing for Public Health (1.0 cr)
or PUBH 6810 - Survey Research Methods (3.0 cr)
or PUBH 7401 - Fundamentals of Biostatistical Inference (4.0 cr)
or PUBH 7405 - Biostatistical Inference I (4.0 cr)
or PUBH 7406 - Biostatistical Inference II (3.0 cr)
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Choose either minor or supporting program. A minimum of 12 course credits are required for a University of Minnesota doctoral minor. Recommended minors include: CSPH, PSY or PUBH.

Supporting program

Recommended supporting programs and courses include combining 6-13 credits of adviser-approved selections from other emphasis areas of kinesiology (KIN), such as (but not limited to) sport sociology or sport and exercise psychology.

-OR-

Minor

Biomechanics and Neuromotor Control

The study of the mechanical and electromyographic analysis of human motion is combined with neurophysiological knowledge about the various neuronal subsystems to provide a basis for understanding how the brain controls bodily and limb motion.

Emphasis courses

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A minimum of 12 course credits must be selected from the following list. At least 3 credits must be KIN 8xxx.
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KIN 5235 - Advanced Biomechanics II: Kinetics (3.0 cr)

or KIN 5643 - Applied Motion Capture and Movement Analysis Technology (3.0 cr)

or KIN 5941 - Clinical Movement Neuroscience (3.0 cr)

or KIN 8211 - Seminar: Perception and Action (3.0 cr)

or KIN 8132 - Seminar: Motor Development (3.0 cr)

or KIN 8135 - Seminar: Motor Control and Learning (3.0 cr)

or RSC 5135 - Advanced Biomechanics I: Kinematics (3.0 cr)

or NSC 5661 - Behavioral Neuroscience (2.0 cr)

Research skills courses

A minimum of 6-9 research skills course credits are required, selected from the following list or in consultation with the advisor.

Courses taken to fulfill the research skills courses requirement can't be double counted to fulfill the supporting program requirement.

EPSY 8264 - Advanced Multiple Regression Analysis (3.0 cr)

or EPSY 8267 - Applied Multivariate Analysis (3.0 cr)

or PUBH 6450 - Biostatistics I (4.0 cr)

or PUBH 6451 - Biostatistics II (4.0 cr)

or PUBH 7405 - Biostatistical Inference I (4.0 cr)

or PUBH 7406 - Biostatistical Inference II (3.0 cr)

or STAT 5021 - Statistical Analysis (4.0 cr)

or STAT 5302 - Applied Regression Analysis (4.0 cr)

or STAT 5303 - Designing Experiments (4.0 cr)

or STAT 5601 - Nonparametric Methods (3.0 cr)

Minor

Choose either minor or supporting program. A minimum of 12 course credits are required for a University of Minnesota doctoral minor. Recommended minors include: CGSC, CPMS, GERO, HUMF, NSC, or PREV.

Supporting program

Any combination of at least 6 KIN or non-KIN course credits may be used for the supporting program and must be approved by the advisor. Recommended kinesiology emphasis areas for supporting courses include exercise physiology, perceptual-motor control and learning, physical activity and sport science, or sport management. Recommended program areas for supporting courses include: BMEN, ME, NURS, OT, OTOL, PUBH, NSC and RSC.

KIN 5981 - Research Methodology in Kinesiology and Sport Management (3.0 cr)

or KIN 5987 - Professional Skills and Grant Writing for Health Sciences (2.0 cr)

-OR-

Exercise Physiology

Exercise physiology is the study of issues related to acute and chronic effects of physical activity on human physiological systems and health, and how fundamental concepts of human energetics and mechanics apply to exercise, sport, physical exertion, and health

promotion. Doctoral students learn to apply principles of physiology to solving problems related to functional responses and adaptations involved in human skeletal muscular activity.

Emphasis courses

A minimum of 12 course credits must be selected from the following list. At least 3 credits must be KIN 8xxx. KIN 8122 may be taken multiple times.

KIN 5122 - Applied Exercise Physiology (3.0 cr)

or KIN 5141 - Nutrition and Exercise for Health Promotion and Disease Prevention (3.0 cr)

or KIN 5142 - Applied Nutrition for Sport Performance and Optimal Health (3.0 cr)

or KIN 5385 - Exercise for Healthy Aging & Disease Prevention and Management (3.0 cr)

or KIN 5435 - Advanced Theory and Techniques of Exercise Science (3.0 cr)

or KIN 5485 - Exercise Testing and Prescription (3.0 cr)

or KIN 5585 {Inactive}(2.0 cr)

or KIN 5641 - Scientific Theory and Application of Training and Conditioning in Sport (3.0 cr)

or KIN 5720 - Special Topics in Kinesiology (2.0 - 4.0 cr)

or KIN 5987 - Professional Skills and Grant Writing for Health Sciences (2.0 cr)

or KIN 8122 - Seminar: Exercise Physiology (2.0 cr)

Research skills courses

A minimum of 6-9 research skills course credits are required, selected from the following list or in consultation with the advisor. It is recommended to take a statistical sequence in either EPSY, STAT, or PUBH. It is not recommended to switch courses between departments unless agreed to by the advisor. Courses taken to fulfill the research skills courses requirement can't be double counted to fulfill the supporting program requirement.

EPSY 8264 - Advanced Multiple Regression Analysis (3.0 cr)

or EPSY 8267 - Applied Multivariate Analysis (3.0 cr)

or PUBH 6450 - Biostatistics I (4.0 cr)

or PUBH 6451 - Biostatistics II (4.0 cr)

or PUBH 7405 - Biostatistical Inference I (4.0 cr)

or PUBH 7406 - Biostatistical Inference II (3.0 cr)

or PUBH 7415 - Introduction to Clinical Trials (3.0 cr)

or PUBH 7430 - Statistical Methods for Correlated Data (3.0 cr)

or STAT 5021 - Statistical Analysis (4.0 cr)

or STAT 5302 - Applied Regression Analysis (4.0 cr)

or STAT 5303 - Designing Experiments (4.0 cr)

or STAT 5601 - Nonparametric Methods (3.0 cr)

Mino

Choose either a minor or supporting program. A minimum of 12 course credits are required for a University of Minnesota doctoral minor. Recommended minors include: CGSC, CPMS, GERO, HUMF, NSC, or PREV.

Supporting program

Any combination of at least 6 KIN or non-KIN course credits may be used for the supporting program and must be approved by the advisor. Recommended kinesiology emphasis areas for supporting courses include biomechanics and neuromotor control, perceptual-motor control and learning, physical activity and sport science, or sport management. Recommended areas for supporting program include: BIOC, FSCN, OT, PHSL, PUBH, NSC, and RSC.

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Perceptual-Motor Control and Learning

Perceptual-motor control and learning includes related areas of movement behavior inquiry. Motor learning is the study of the learning of movement skills and the factors that mediate learning, such as practice, perceptual guidance, or knowledge of results. Although a lifespan approach is emphasized, students may focus on one or more specific age periods, such as infancy, early childhood, adolescence, or later adulthood.

Emphasis courses

A minimum of 12 course credits must be selected from the following list. At least 3 credits must be KIN 8xxx.

KIN 5235 - Advanced Biomechanics II: Kinetics (3.0 cr)

or KIN 5643 - Applied Motion Capture and Movement Analysis Technology (3.0 cr)

or KIN 5941 - Clinical Movement Neuroscience (3.0 cr)

or KIN 8211 - Seminar: Perception and Action (3.0 cr)

or KIN 8132 - Seminar: Motor Development (3.0 cr)

or KIN 8135 - Seminar: Motor Control and Learning (3.0 cr)

or RSC 5135 - Advanced Biomechanics I: Kinematics (3.0 cr)

Research skills courses

A minimum of 6-9 research skills course credits are required, selected from the following list or in consultation with the advisor. It is recommended to take a statistical sequence in either EPSY, STAT, or PUBH. It is not recommended to switch courses between departments unless agreed to by the advisor. Courses taken to fulfill the research skills courses can't be double counted to fulfill the supporting program requirement.

EPSY 8264 - Advanced Multiple Regression Analysis (3.0 cr)

or EPSY 8267 - Applied Multivariate Analysis (3.0 cr)

or EPSY 8282 - Statistical Analysis of Longitudinal Data (3.0 cr)

or PUBH 6450 - Biostatistics I (4.0 cr)

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or PUBH 6451 - Biostatistics II (4.0 cr)
or PUBH 7405 - Biostatistical Inference I (4.0 cr)
or PUBH 7406 - Biostatistical Inference II (3.0 cr)
or STAT 5201 - Sampling Methodology in Finite Populations (3.0 cr)
or STAT 5302 - Applied Regression Analysis (4.0 cr)
or STAT 5303 - Designing Experiments (4.0 cr)
or STAT 5601 - Nonparametric Methods (3.0 cr)
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Minor

Choose either a minor or supporting program. All University of Minnesota doctoral minors require a minimum of 12 credits. Recommended minors include CGSC, CPMS, GERO, HUMF, NSC, or PREV.

Supporting program

Any combination of at least 6 KIN or non-KIN course credits may be used for the supporting program and must be approved by the advisor. Recommended kinesiology emphasis areas for supporting courses include biomechanics and neuromotor control, exercise physiology, physical activity and sport science, or sport management. Recommended programs for supporting courses include: BMEN, ME, NURS, OT, OTOL, PubH, NSC, and RSC. Specific KIN course recommendations include:

KIN 5981 - Research Methodology in Kinesiology and Sport Management (3.0 cr) or KIN 5987 - Professional Skills and Grant Writing for Health Sciences (2.0 cr)

-OR-

Physical Activity and Health

The emphasis area in Physical Activity and Health is intended to provide students with advanced study in physical activity and health promotion and disease prevention, as well as study designs from an epidemiological approach. The emphasis area will provide a solid foundation sufficient to understand and conduct research in this field.

Emphasis courses

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A minimum of 12 course credits must be selected from the following list. At least 3 credits must be KIN 8xxx.
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KIN 5202 - Current Issues in Health (2.0 cr)

or KIN 5203 - Health Media, Consumerism, and Communication (2.0 cr)

or KIN 5122 - Applied Exercise Physiology (3.0 cr)

or KIN 5123 - Motivational Interventions in Physical Activity (3.0 cr)

or KIN 5125 - Advances in Physical Activity and Health (3.0 cr)

or KIN 5141 - Nutrition and Exercise for Health Promotion and Disease Prevention (3.0 cr)

or KIN 5142 - Applied Nutrition for Sport Performance and Optimal Health (3.0 cr)

or KIN 5385 - Exercise for Healthy Aging & Disease Prevention and Management (3.0 cr)

or KIN 5585 {Inactive}(2.0 cr)

or KIN 5987 - Professional Skills and Grant Writing for Health Sciences (2.0 cr)

or KIN 8122 - Seminar: Exercise Physiology (2.0 cr)

or KIN 8211 - Seminar: Perception and Action (3.0 cr)

Research skills courses

A minimum of 6-9 research skills course credits are required, selected from the following list or in consultation with the advisor.

Courses taken to fulfill the research skills credits can't be double counted to fulfill the supporting program requirement.

KIN 5981 - Research Methodology in Kinesiology and Sport Management (3.0 cr)

or EPSY 8264 - Advanced Multiple Regression Analysis (3.0 cr)

or EPSY 8266 - Statistical Analysis Using Structural Equation Methods (3.0 cr)

or EPSY 8267 - Applied Multivariate Analysis (3.0 cr)

or EPSY 8282 - Statistical Analysis of Longitudinal Data (3.0 cr)

or PUBH 6450 - Biostatistics I (4.0 cr)

or PUBH 6451 - Biostatistics II (4.0 cr)

or PUBH 7405 - Biostatistical Inference I (4.0 cr)

or PUBH 7406 - Biostatistical Inference II (3.0 cr)

or STAT 5201 - Sampling Methodology in Finite Populations (3.0 cr)

or STAT 5302 - Applied Regression Analysis (4.0 cr)

or STAT 5303 - Designing Experiments (4.0 cr)

Mino

Choose either minor or supporting program, may include only 5xxx level courses or higher. A minimum of 12 course credits are required for a University of Minnesota doctoral minor. Recommended minors include: CGSC, CPMS, GERO, CSPH, NSC, PREV, or PUBH.

Supporting program

Any combination of at least 6 KIN or non-KIN course credits may be used for the supporting program and must be approved by the advisor. Recommended kinesiology emphasis areas for supporting courses include biomechanics and neuromotor control, exercise physiology, physical activity and sport science, or sport management. Recommended programs for supporting courses include: NURS, PUBH, NSC, RSC, CSPH, or PREV.

-OR-

Sport and Exercise Psychology

The Sport and Exercise Psychology emphasis focuses on the thoughts, feelings, and actions of participants and professionals within physical activity contexts such as competitive sports, sports medicine and rehabilitation, exercise, and physical education. Scholars

seek to understand the cognitive, affective, behavioral, and social mechanisms underlying interactions between the psychology of individual participants and influences of psychological climates within physical activity settings.

Emphasis courses

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A minimum of 12 course credits must be selected from the following list. At least 3 credits must be KIN 8xxx.
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KIN 5126 - Social Psychology of Sport & Physical Activity (3.0 cr)

or KIN 5136 - Psychology of Coaching (3.0 cr)

or KIN 5375 {Inactive}(3.0 cr)

or KIN 5720 - Special Topics in Kinesiology (2.0 - 4.0 cr)

or KIN 5723 - Psychology of Sport Injury and Rehabilitation (3.0 cr)

or KIN 8126 - Sports Medicine Psychology (3.0 cr)

or KIN 8136 - Developmental Sport and Exercise Psychology (3.0 cr)

or KIN 8696 {Inactive}(3.0 - 6.0 cr)

Research skills courses

A minimum of 6-9 research skills course credits are required, selected from the following list or in consultation with the adviser. Courses taken to fulfill the research skills courses requirement can't be double counted to fulfill the supporting program requirement.

KIN 5981 - Research Methodology in Kinesiology and Sport Management (3.0 cr)

or EPSY 5247 - Qualitative Methods in Educational Psychology (3.0 cr)

or EPSY 8247 {Inactive}(3.0 cr)

or EPSY 8251 - Statistical Methods in Education I (3.0 cr)

or EPSY 8252 - Statistical Methods in Education II (3.0 cr)

or EPSY 8264 - Advanced Multiple Regression Analysis (3.0 cr)

or EPSY 8265 - Factor Analysis (3.0 cr)

or EPSY 8266 - Statistical Analysis Using Structural Equation Methods (3.0 cr)

or EPSY 8268 - Hierarchical Linear Modeling in Educational Research (3.0 cr)

Mino

Choose either minor or supporting program. A minimum of 12 course credits are required for a University of Minnesota doctoral minor. Recommended minors include: CPSY, EPSY or PSY.

Supporting Program

Recommended supporting program courses include combining 6-13 credits of adviser-approved selections from other emphasis areas within kinesiology (KIN), such as (but not limited to) behavioral aspects of physical activity (e.g.KIN 5123), sport sociology (e.g.KIN 5371 or KIN 5511) or sport management (e.g. KIN 5601 or KIN 5725) and/or from other graduate programs [e.g., CPSY, EPSY, PSY, CSPH, GRAD, PREV, or PUBH.

-OR-

Sport Management

This emphasis concentrates on the theoretical and practical dimensions of the management of athletic events, sports teams and facilities, and the sporting process. The management areas studied include those in the public sector (interscholastic and intercollegiate sport) as well as fitness and facility management. Sport management policy and ethics are also a focus of this emphasis area and research agenda.

Required courses

KIN 8128 - Doctoral Sport Management Seminar (3.0 cr)

Program courses

A minimum of 9 credits must be selected from the following list:

KIN 5111 - Sports Facilities (3.0 cr)

or KIN 5375 {Inactive}(3.0 cr)

or KIN 5511 - Sport and Gender (3.0 cr)

or KIN 5371 - Sport and Society (3.0 cr)

or KIN 5421 - Sport Finance (3.0 cr)

or KIN 5461 - Issues in the Sport Industry (3.0 cr)

or KIN 5601 - Sport Management Ethics and Policy (3.0 cr)

or KIN 5631 - Programming and Promotion in Sport (3.0 cr)

or KIN 5725 - Organization and Management of Physical Education and Sport (3.0 cr)

or KIN 5801 - Legal Aspects of Sport and Physical Activity (4.0 cr)

Research skills courses

A minimum of 6-9 research skills course credits are required, selected from the following list or in consultation with the advisor. Courses taken to fulfill the research skills courses requirement can't be double counted to fulfill the supporting program requirement.

KIN 5981 - Research Methodology in Kinesiology and Sport Management (3.0 cr)

or OLPD 5056 - Case Studies for Policy Research (3.0 cr)

or OLPD 5061 - Ethnographic Research Methods (3.0 cr)

or OLPD 5528 {Inactive}(1.0 - 3.0 cr)

or EPSY 5247 - Qualitative Methods in Educational Psychology (3.0 cr)

or EPSY 8247 {Inactive}(3.0 cr)

or EPSY 8264 - Advanced Multiple Regression Analysis (3.0 cr)

or EPSY 8265 - Factor Analysis (3.0 cr)

or EPSY 8266 - Statistical Analysis Using Structural Equation Methods (3.0 cr)

or EPSY 8267 - Applied Multivariate Analysis (3.0 cr)

or FSOS 8013 - Qualitative Family Research Methods (3.0 cr)

Minor

Choose either a minor or supporting program. A minimum of 12 course credits are required for a University of Minnesota doctoral minor. Recommended minors include: public policy, COMM, EPSY, BA, or CI.

Supporting program

Any combination of at least 6 KIN or non-KIN course credits may be used for the supporting program and must be approved by the advisor. Recommended kinesiology emphasis areas for supporting courses include biomechanics and neuromotor control, exercise physiology, physical activity and sport science, and perceptual-motor control and learning. Recommended program areas for supporting program courses include: OLPD, PA, COMM, marketing, and management.

-OR-

Sport Sociology

Sport Sociology is the scientific study of human behavior and social organization in the sport context with the primary objective to attempt to identify, describe and explain the role and relationship of sport in society. It focuses on the behavior patterns and social processes that occur in the sporting domain and explores the organizational and management systems and structures in which sport

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Emphasis courses
 A minimum of 12 course credits must be selected from the following list. At least 3 credits must be KIN 8xxx.
 KIN 5123 - Motivational Interventions in Physical Activity (3.0 cr)
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or KIN 5126 - Social Psychology of Sport & Physical Activity (3.0 cr)

or KIN 5136 - Psychology of Coaching (3.0 cr)

or KIN 5371 - Sport and Society (3.0 cr)

or KIN 5375 {Inactive}(3.0 cr)

or KIN 5511 - Sport and Gender (3.0 cr)

or KIN 5720 - Special Topics in Kinesiology (2.0 - 4.0 cr)

or KIN 5723 - Psychology of Sport Injury and Rehabilitation (3.0 cr)

or KIN 8126 - Sports Medicine Psychology (3.0 cr)

or KIN 8136 - Developmental Sport and Exercise Psychology (3.0 cr)

or KIN 8696 {Inactive}(3.0 - 6.0 cr)

Research skills courses

A minimum of 6-9 research skills course credits are required, selected from the following list or in consultation with the adviser. Courses taken to fulfill the research skills courses requirement can't be double counted to fulfill the supporting program requirement.

AMST 8250 - Popular Culture and Politics in the 20th Century: Research Strategies (3.0 cr)

or AMST 8289 - Ethnographic Research Methods: Research Strategies in American Studies (3.0 cr)

or COMM 8211 - Critical Communication Studies: History, Theory, Method (3.0 cr)

or COMM 8451 - Seminar: Intercultural and Diversity Research (3.0 cr)

or COMM 8502 - Seminar: Communication Theory Construction (3.0 cr)

or KIN 5981 - Research Methodology in Kinesiology and Sport Management (3.0 cr)

or EPSY 5247 - Qualitative Methods in Educational Psychology (3.0 cr)

or EPSY 8247 {Inactive}(3.0 cr)

or EPSY 8251 - Statistical Methods in Education I (3.0 cr)

or EPSY 8252 - Statistical Methods in Education II (3.0 cr)

or EPSY 8264 - Advanced Multiple Regression Analysis (3.0 cr)

or EPSY 8266 - Statistical Analysis Using Structural Equation Methods (3.0 cr)

or EPSY 8267 - Applied Multivariate Analysis (3.0 cr)

or EPSY 8282 - Statistical Analysis of Longitudinal Data (3.0 cr)

or GWSS 8997 - Dissertation Seminar (3.0 cr)

or PSY 8209 - Research Methods in Social Psychology (3.0 cr)

or PUBH 6810 - Survey Research Methods (3.0 cr)

or PUBH 7401 - Fundamentals of Biostatistical Inference (4.0 cr)

or PUBH 7405 - Biostatistical Inference I (4.0 cr)

or PUBH 7406 - Biostatistical Inference II (3.0 cr)

or SOC 8801 - Sociological Research Methods (4.0 cr)

or SOC 8811 - Advanced Social Statistics (4.0 cr)

or SOC 8890 - Advanced Topics in Research Methods (2.0 - 3.0 cr)

Minor

Choose either minor or supporting program. A minimum of 12 course credits are required for a University of Minnesota doctoral minor. Recommended minors include: AMST, COMM, CPSY, CSPH, EPSY, GWSS, PUBH, PSY or SOC.

Supporting program

Recommended supporting programs and courses include selections from EPSY, PSY, and CPSY minor programs as well as from other emphasis areas of kinesiology (KIN), such as behavioral aspects of physical activity, sport sociology, or sport management. Other relevant supporting program courses can be found in public health (PUBH), sociology (SOC), center for spirituality and healing (CSPH), or prevention science (PREV).