

# FACULTY-STUDENT HANDBOOK

## **MASTER OF SCIENCE DEGREE PROGRAM IN KINESIOLOGY**

**2004-2005**

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## HUMAN MOVEMENT SCIENCES FACULTY and STAFF SUPPORTING THE GRADUATE PROGRAM

### HMS Graduate Faculty

<b>Name</b>	<b>Disciplinary Area</b>	<b>Office</b>	<b>Office Phone (prefix 229-)</b>	<b>Lab</b>	<b>Lab Phone (prefix 229-)</b>	<b>e-mail @uwm.edu)</b>
Margaret Duncan	Philosophy/Sociology	419	5341	466	5120	mduncan
Jennifer Earl	Biomechanics/AT	491	3227	132	5147 or 6899	jearl
Kyle Ebersole ATEP Curriculum Director	Ex Physiology/AT	415	5553	132	5147 or 6899	ebersole
Barbara Hart Grad Program Director	Motor Control/Learning	421	5678	136	5160	hart
Cynthia Hasbrook Department Chair	Sociology	471	5677	466	5120	cah2
Barbara Meyer	Psychology	449	4591	466	5120	bbmeyer
Kris O'Connor	Biomechanics	492	2680	134	5147 or 6899	krisocon
Erika Sander	Motor Development	453	3806	136	5160	esander
Ann Snyder	Ex Physiology	422	6065	130	5127	acs
Scott Strath	Ex Physiology	435	3666	434	5676	sstrath
Ann Swartz	Ex Physiology	429	4242	434	5676	aswartz

### HMS Staff

<b>Name</b>	<b>Position</b>	<b>Office</b>	<b>Office Phone (prefix 229-)</b>	<b>e-mail @uwm.edu)</b>
Susan Cashin	Lecturer	499	3303	scashin
Mark Parmenter	Assistant Researcher Ex Physiology	418	6717	parmenm
Wendy Pribbanow	Department Program Assistant	411	6080	wlp
Sarika Monteiro	Assistant Researcher Biomechanics/Motor Control	136b	3056	sarika
Joseph Weitzer	Undergraduate Program Director	413	6887	jweitzer

## **GRADUATE PROGRAM POLICIES & PROCEDURES**

### **STUDENT ADMISSION**

1. Applicants must hold a bachelor's degree with a minimum GPA of 2.75 from an accredited college or university.
2. Applicants must submit scores on the General Test of the Graduate Record Examination. GRE scores (target scores=500/500 in verbal/quantitative sections) are given significant consideration in admission decisions in conjunction with GPA and specific prerequisite course grades.
3. Applicants must submit a letter indicating their reasons for study in the graduate program which includes an initial selection of their primary and secondary areas of study.
4. All applications will be reviewed by the Graduate Program Director. She/he will prepare a "Graduate Student Application Data Summary" form for each application.
5. All applications and Graduate Student Application Data Summary forms will be circulated among the members of the Graduate Faculty and each member will vote to admit, not admit or discuss each applicant. In the case of mixed vote, the Graduate Faculty will meet to reach a final decision. The opinion of the member likely to serve as primary advisor to the applicant will be given special consideration.

### **ADMISSION WITH PROBATIONARY STATUS**

In some instances, students not having met the above admission criteria may be admitted with probationary status. Students admitted with probationary status must earn a cumulative GPA of 3.0 or better at the end of 9 graduate credits or three semesters (whichever comes first) of graduate coursework. Students failing to remove their probationary status at the end of 9 graduate credits or three semesters will be academically dismissed from the program and The Graduate School.

### **DESIGNATION OF PRIMARY AND SECONDARY AREAS OF STUDY AND ADVISORS**

1. The Graduate Program Director, in conjunction with Graduate Faculty members, will assign each newly admitted student to a primary area advisor based on the new student's statement of preference for area(s) of study in his/her application.
2. In the case where a new student has not yet determined his/her secondary area of study, he/she must do so no later than upon the completion of 12 graduate credits.
3. Students may initiate change of area(s) of study and/or advisor(s) at any time. The change of primary advisor and/or area of study are contingent upon review by the Graduate Faculty Committee. A petition form (page 11) must be completed and submitted to the Graduate Program Director.

### **THE PROPOSED PROGRAM OF GRADUATE STUDY**

1. Each student, in conjunction with his/her primary and secondary advisors, will complete a "Proposed Program of Graduate Study" form (page 10). The form must be signed by the student and both area advisors then submitted to the Graduate Program Director for review and approval no later than upon the completion of 12 graduate credits.
2. All graduate students must complete a minimum of 33 graduate credits, including the following required "core" courses:

#### **Thesis Option Students**

HMS-(590) HMS Seminar (1x3)  
HMS-702 Statistical Analysis in HK (3)  
HMS-703 Survey of HK (3)  
HMS-990 Research and Thesis (6)

#### **Comprehensive Exam Option Students**

HMS-(590) HMS Seminar (1x3)  
HMS-702 Statistical Analysis in HK (3)  
HMS-891 Research Seminar (6)

3. It is strongly recommended that students begin their coursework with 700 and 702.
4. All students must complete a minimum of 9 graduate credits in their primary area of study and 6 graduate credits in their secondary area.
5. All graduate students must complete at least one course in a third area of study and complete coursework in both the "life" and "social" sciences.
6. It is expected that students will periodically meet with their advisors throughout their coursework, prior to each registration period, and at any other time deemed necessary.

## **THESIS**

1. It is strongly recommended that thesis students enroll in 2-3 credits of 990 (Research and Thesis) with their primary advisor the semester prior to their enrollment in 703 (Survey of Human Kinetics Research). The initial enrollment in 990 should result in the student identifying a specific thesis topic and reviewing a substantial portion of the literature pertinent to the topic. (Depending on the topic of the thesis and its integrative nature, an independent study with the secondary advisor may be warranted.) Subsequent enrollment in 990 (up to a total of 6 credits) should be divided to accommodate the time periods of data collection/analysis and thesis writing/defense.
2. Students will complete the first three chapters of the thesis proposal (Introduction, Review of Literature, and Methodology) during their enrollment in 703. A draft of each chapter will be completed with guidance from the course instructor and the student's primary advisor (and secondary advisor where appropriate). The "Required Proposal/Suggested Thesis Format" guidelines will be followed within the Survey course. (see page 13)
3. Each thesis student will have a thesis committee consisting of a minimum of the student's primary and secondary area advisors and a third member mutually agreed upon by the student and advisors. Primary and secondary advisors must be Graduate Faculty members within the Department of Human Movement Sciences. Third members must hold a doctorate and be actively engaged in scholarly inquiry in the field, or related field, associated with the thesis topic. Any member who is not a member of the UWM Graduate Faculty will be required to file a curriculum vita with the Graduate Program Director prior to approval as a committee member.
4. Students will submit a completed and committee-approved (signed cover sheet) thesis proposal (with documentation of IRB approval) to the Graduate Program Director prior to student's collection of thesis data.
5. It is strongly recommended that each thesis student, in conjunction with his/her advisor, complete a "Thesis/Project Deadline Form" (page 12) towards the end of the semester he/she is enrolled in 703.
6. Copies of the thesis will be made available to committee members at least 10 working days prior to the scheduled defense date.
7. Scheduling of the defense will be no less than one week prior to The Graduate School's final thesis submission deadline.
8. The student's thesis committee, by majority vote, will judge the outcome of the oral defense as "pass" or "fail".
9. In the event a student does not pass his/her oral defense, it may be repeated once after consultation with his/her thesis committee.
10. All thesis students must file an unbound copy of their approved thesis with the Graduate School (see Graduate School format requirements) ([http://www.uwm.edu/Dept/Grad\\_Sch/Publications/thesis\\_dissertation\\_format.html](http://www.uwm.edu/Dept/Grad_Sch/Publications/thesis_dissertation_format.html)) and a hard bound copy with the Graduate Program Director's Office and each member of the thesis committee. The Program Director will provide guidance for the binding process.

## **COMPREHENSIVE EXAMINATION**

1. All Comprehensive Examination Option students must enroll in 891 (Research Seminar) with their primary advisor during or after their last semester of coursework. Within the 891 (Research Seminar) course the student will identify a specific topic for investigation, and review a substantial body of the pertinent literature in preparation for the specific final Comprehensive Exam. Registration in 891 for the secondary area of study may be concurrent; however the examination in the primary area must be successfully passed prior to attempting the secondary area exam.
2. 891 is further designed to prepare Comprehensive Examination students to successfully complete the Comprehensive Examination. Primary (and secondary) advisors, in conjunction with their students, will select a minimum of 5 or 6 research articles in topical area of the literature reviewed. The student will read each article and prepare, in writing, accompanying sets of answers to the generic set of "Comprehensive Examination Questions." (page 14)
3. When judged ready to sit for the first portion of the Comprehensive Examination (primary area), the student will be given a research article in the topical area of interest and the generic set of exam questions. They will complete the examination without benefit of reference materials, within four hours, at a computer-equipped on-campus site mutually agreed upon by the student and advisor.
4. Following successful completion of the primary area exam, the student may schedule and sit for the secondary area examination, following the same procedures as those outlined in 1-3.
5. In the event that the student fails\* the first exam, the student and advisor will meet and discuss the results of the exam. Suggestions for additional preparation will be offered and a date set for a second administration of the exam over a new research article). If the student fails the second administration of the examination, he/she will receive a grade of "F" in 891 and automatically be dismissed from the MS Kinesiology degree program.

\*When a primary (secondary) advisor judges a portion of the Comprehensive Examination to be unacceptable, he/she will seek the opinion of two additional Graduate Faculty members including the Graduate Program Director and another member other than the student's primary (or secondary) advisor.

7. All completed exams (whether passed or failed) shall be filed in the student's folder with the Graduate Program Director along with a copy of the research paper reviewed, and a cover memo indicating the letter grade assigned for the 891 course.

## **GRADUATION**

Students must be registered for at least one graduate credit during the semester the degree is awarded. If you have completed all required academic work, including successful defense of a thesis, or reached the limit of the number of credits allowed in your program, you may enroll in course HMS 888, "Candidate for Degree." Enrollment in 888 is allowed only if you take no other courses that semester. (see 2004-2005 Graduate Student and Faculty Handbook (p. 69) for further details)

## **GRADUATE STUDENT APPEALS PROCEDURE**

Graduate students who wish to appeal an academic decision must comply with the procedures listed in the current Graduate School Bulletin.

For purposes of appeals to the Department of Human Movement Sciences Graduate Faculty Committee, the following definitions apply to terms used in the Bulletin:

1. "Graduate Student" is defined as any student enrolled for graduate credit in the Department and registered as a graduate student at the University of Wisconsin-Milwaukee.
2. "Appropriate Authority Within the Department Faculty Body" and "Graduate Faculty of the Program Concerned" are defined as the Department Graduate Faculty Committee members who are present at the meeting during which an appeal is heard; there is no separate appeals body.
3. Graduate programs include non-degree as well as degree, and non-certificate as well as certificate, courses of study.

In order that the Department Graduate Faculty Committee may make an informed and impartial ruling on Step 2 Appeals (see current Graduate Bulletin: "Standards, Regulations, and Requirements"), the following procedures will be followed:

1. Appeals must be made in writing and submitted to the Department Graduate Program Director (or to the Department Chair if the Program Director is directly involved) and must include the following:
  - a. A description of the action that prompted the appeal.
  - b. The rationale for claiming that the action was inappropriate.
  - c. The specific remedy sought.
  - d. A rationale explaining why the remedy sought is appropriate.
2. The appeals meeting will have both evidentiary and deliberation portions:
  - a. Students may be accompanied by counsel of their choice and may present witnesses and evidence in support of their appeals during the evidentiary portion.
  - b. The evidentiary portion can be closed where the provisions of Wisconsin Statutes 19.85 (1) (f) are met and an appropriate closed session motion is passed.
  - c. The deliberation portion of the meeting will be totally confidential if a closed session motion is passed either under Sec. 19.85 (1) (a) or Sec. 19.85 (1) (f) Wisconsin Statutes, and no one other than fully qualified Graduate Faculty Committee members of the Department will be present during that time. The faculty member(s) directly involved in the matter will not vote on the final motion; neither will they be present during the Graduate Faculty Committee's deliberations on it
3. The Graduate Faculty Committee's action will be determined by a majority vote of the members present and voting. The vote will be by a show of hands and recorded in the regular committee minutes.
4. Student appeal will be placed on the agenda of the next regular Graduate Faculty Committee meeting. Special meetings to hear student appeals will be scheduled when a majority of those present and voting at a regular meeting of the Committee votes to do so.

## **GRADUATE TEACHING ASSISTANTSHIPS**

1. A number of Graduate Teaching Assistantships may be awarded annually to a maximum of 3 years in the following areas: Undergraduate Biomechanics; Undergraduate Exercise Physiology; Undergraduate Motor Learning; and Undergraduate Statistics, Psychology and Sociology.
2. Every effort will be made to assign GTAs to the undergraduate area that is consistent with their primary area of graduate study.

3. New GTAs will be expected to attend the lecture sections of the undergraduate courses they assist and all orientations.
4. GTAs represent the Department and the University, and as such will conduct themselves in a professional manner.
5. The workload assigned GTAs will be consistent with the MGAA contract guidelines
6. Applications for GTA positions will be received (by the Graduate Program Program Director) from any student admitted to the MS Kinesiology Program by February 1st of the year preceding the appointment. Applications include a cover letter indicating the position desired and applicant qualifications. Two letters of reference also must be provided from individuals who can attest to the skills and qualities of the applicant that are consistent with position expectations. New applicants to the program may submit the GTA application concurrently with program application materials.

### **ADMINISTRATIVE POLICIES**

The graduate program in Kinesiology strictly adheres to The Graduate School's "Administrative Policies" as described in the Graduate School Bulletin ([http://www.uwm.edu/Dept/Grad\\_Sch/Publications/Bulletin/](http://www.uwm.edu/Dept/Grad_Sch/Publications/Bulletin/)) and the Graduate Student and Faculty Handbook ([http://www.uwm.edu/Dept/Grad\\_Sch/Publications/Handbook/](http://www.uwm.edu/Dept/Grad_Sch/Publications/Handbook/)). These policies pertain to affirmative action, student conduct, student rights, student responsibility, sexual harassment, policies and programs concerning illicit drugs and alcohol, and discriminatory conduct. Graduate students and faculty should familiarize themselves with this information.

## **FORMS & GUIDELINES**



**Change of Advisor and/or Primary Area of Study**

**Student:**

**Current Advisor & Primary Area:**

**Graduate courses, credits and grades completed to date:**

<b>Graduate Course Title &amp; Number</b>	<b>Credits</b>	<b>Semester Completed</b>	<b>Grade</b>

**Proposed Change to Advisor and/or Primary area of study:**

**Please provide reason(s) for change:**

**Signatures:**

\_\_\_\_\_  
**Current Primary Advisor**

**Date**

\_\_\_\_\_  
**New Primary Advisor**

**Date**

\_\_\_\_\_  
**Graduate Coordinator**

**Date**

## Thesis/Project Deadline Form

Student \_\_\_\_\_

### Target Date

_____	Pilot Data Collection as Necessary
_____	Pilot Data Analysis as Necessary
_____	Secure "Letters of Cooperation" as Necessary
_____	Secure "Parental Approval Letters" as Necessary
_____	Human Subjects Approval at Appropriate Level
_____	Approval of Proposal by Committee
_____	Written Proposal Submitted (first three chapters)
_____	Chapter II: Review of Literature
_____	Chapter III: Methods
_____	Chapter I: Introduction
_____	Identification of Participant Pool
_____	Data Collection
_____	Data Analysis
_____	Resubmission of First Three Chapters and Results/Discussion Chapter
_____	Resubmission of Results or Results and Discussion Chapter
_____	Submission of Discussion or Summary and Conclusions Chapter
_____	Resubmission of Discussion or Summary and Conclusions Chapter
_____	Submission of Thesis
_____	Resubmission of Thesis
_____	Oral Defense
_____	Final Submission of Thesis (incorporating changes made post Oral Defense)
_____	Deposit Unbound Thesis with Graduate School
_____	Deposit Bound Thesis Copies w/ Committee, Graduate Coordinator

## Required Proposal/Suggested Thesis Format

- I. Chapter I: Introduction
  - A. Background to the problem/question
  - B. Statement of Purpose
  - C. Scope/delimitations of the study
  - D. Assumptions of the study
  - E. Limitations of the study
  - F. Significance of the study
    - 1. Practical
    - 2. Scientific
      - a. Integrative
      - b. Testing of theoretical position
      - c. Replication of past work & extension
  - G. Definition of terms
- II. Chapter II: Review of Literature
  - A. Introduction
    - 1. Restatement of problem/purpose
    - 2. What will be reviewed and why
    - 3. Brief statement as to organization of chapter
  - B. Review of Literature
    - 1. Sections
      - a. Introduction Section including organization of section
      - b. Sub-sections
      - c. Summary of section
  - C. Overall summary of chapter
- III. Chapter III: Methods
  - A. Restatement of problem/purpose
  - B. Subjects/Participants
    - 1. Selection procedures
    - 2. Description
      - a. age
      - b. number
      - c. sex
      - d. SES
    - 3. Protection of human subjects
  - C. Design
    - 1. Control group; repeated measures; etc.
    - 2. Description of variables and their measurement
      - a. Independent variables
      - b. Dependent variables
      - c. Control variables
  - D. Instrumentation
    - 1. Description to include names(s) of instruments, validity, reliability, calibration, etc.
  - E. Procedure
    - 1. Experimental setting
    - 2. How subjects were brought in
      - 3. What subjects were told
    - 4. How did control and treatment groups differ
      - 5. What instructions were given subjects
      - 6. Order of protocol/task
    - 7. Number of experimental sessions, temporal spacing, length of sessions, etc.
    - 8. Debriefing of subjects
  - F. Data Analysis
    - 1. Quantitative analysis
      - a. statistical analyses to be conducted and why
    - 2. Qualitative analyses to be conducted and why
- IV. Chapter IV: Results (or Results and Discussion)
- V. Chapter V: Discussion of Results
- VI. Chapter VI: Summary, Conclusions, Recommendations for Future Study

## **COMPREHENSIVE EXAMINATION QUESTIONS**

### Questions related to the mechanics of the article(s) assigned:

1. Identify the research question of the study (studies). From the investigator's perspective, why is it important to pose this question?
2. Describe the design and execution of the study (studies) in terms of methodological adequacy (e.g., instrumentation, procedures, statistics). Note the strengths and/or limitations of the study (studies) that influence the level of contribution it may make to the literature.
3. Evaluate the discussion section by a) section organization and b) integration of cited literature.

### Questions related to ability to "place the study in context" or understand its meaning:

1. Compare/contrast results of the study with relevant literature.
2. What may the results mean with respect to relevant professional practice?
3. What is the scientific significance of the study?
4. Given the results of the study, propose the next study question and provide justification/ explanation.

### Questions related to philosophies of scholarly inquiry, including integrative and multidisciplinary considerations:

1. Identify and briefly explain the theoretical perspective(s) examined by the author(s) of the study.

Answer A or B (as instructed):

- a) Identify and briefly explain the underlying assumptions of each theoretical perspective identified above.
  - b) Identify and briefly explain the mechanism/model or proposed mechanism/model addressed in this study.
2. Suggest an alternative approach to the central question of this study that draws on theory or method of another human movement sub discipline. Describe how the alternative may enhance the scientific understanding of the research problem.

## **Master of Science Kinesiology Degree Program Courses in Human Movement Sciences**

### **Core Courses (credits)**

HMS-(590) HMS Seminar (1+1+1 to a total of 3)  
HMS-702 Statistical Analysis in Human Kinetics (3)  
HMS-703 Survey of Human Kinetics Research (3)

#### **Thesis Option**

HMS-990 Research and Thesis (1-6 to total of 6)

#### **Comprehensive Exam Option**

HMS-891 Research Seminar (3+3 to total of 6)

### **Biomechanics**

HMS-520 Advanced Biomechanics (3)  
HMS-725 Interdisciplinary Biomechanics (3)  
HMS-822 Biomechanics Research Practicum (3)  
HMS-590 Special Topics (Pathomechanics of the Musculoskeletal System) (3)  
HMS-590 Qualitative Analysis of Human Movement

### **Exercise Physiology**

HMS-530 Advanced Exercise Physiology (3)  
HMS-730 Advanced Metabolic/Endocrine Physiology of Exercise (3)  
HMS-731 Advanced Cardiorespiratory Physiology of Exercise (3)  
HMS-930 Practicum and Seminar in Exercise Physiology (3)  
HMS-590 Special Topics (Advanced Physiological Assessment) (3)  
HMS-590 Special Topics (Understanding Electrocardiography) (3)  
HMS-590 Special Topics (Adaptations to Physiological Stress) (3)  
HMS-590 Special Topics (Physical Activity in the Prevention/Rehabilitation of Disease) (3)

### **Motor Control**

HMS-561 Control of Goal-Directed Voluntary Movement (3)  
HMS-761 Concepts of Human Motor Control (3)  
HMS-762 Research Practicum in Motor Control (3)  
HMS-860 Seminar in Motor Control (3)  
HMS-590 Special Topics (Pathomechanics of the Musculoskeletal System) (3)

### **Psychology of Physical Activity**

HMS-550 Psychological Aspects of Human Movement (3)  
HMS-552 Psychology of Personal Excellence (3)  
HMS-551 Psychology of injury/Illness/Disease: Implications/Strategies for Rehab (3)  
HMS-850 Seminar in Psychosocial Aspects of Physical Activity (Applications to Sport and Exercise) (3)  
HMS-850 Seminar in Psychosocial Aspects of Physical Activity (Social Psychological Issues in Physical Activity) (3)  
HMS-851 Psychological Factors in Preventive and Rehabilitative Exercise (3)

### **Sociology of Physical Activity**

HMS-570 Sociological Aspects of Physical Activity (3)  
HMS-870 Seminar in Sociological Aspects of Physical Activity (3)  
HMS-871 Socialization and Physical Activity (3)

**Other Courses**

HMS-799 Independent Reading (1-3) may be repeated

HMS-888 Candidate for Degree (1) may be repeated

Revised August, 2004

**TENTATIVE/PROJECTED COURSE SCHEDULING  
KINESIOLOGY GRADUATE PROGRAM**

COURSE NAME	COURSE NUMBER	SPR 2004	SUM 2004	FALL 2004	W 05	SPR 2005	SUM 2005	FALL 2005	W 06	SPR 2006	SUM 2006	FALL 2006
Advanced Biomechanics	520	X						<b>X</b>				<b>X</b>
Advanced Exercise Physiology	530	X		X			X	X				X
Psychological Aspects of Human Movement	550			X				X				X
Psych of Injury/Illness/Disease: Implications/Strategies for Rehab	551											
Control of Goal Directed Voluntary Movement	561			X								X
Sociological Aspects of Physical Activity	570	X				X				<b>X</b>		
Psychology of Personal Excellence: Strategies & Techniques for Achieving Your Goals	552				X				X			
<b>HMS Seminar (1 cr)</b>	<b>590</b> (701)			<b>X</b>		<b>X</b>		<b>X</b>		<b>X</b>		<b>X</b>
<b>Pathoetiology of the Musculoskeletal System</b>	<b>590</b> (521)			<b>X</b>						<b>X</b>		
<b>Advanced Physiological Assessment</b>	<b>590</b> (733)			<b>X</b>				<b>X</b>				<b>X</b>
<b>Adaptations to Physiological Stress</b>	<b>590</b> (737)					<b>X</b>						<b>X</b>
<b>Physical Activity in the Prevention/ Rehabilitation of Disease</b>	<b>590</b> (630)							<b>X</b>				<b>X</b>
<b>Qualitative Analysis of Human Movement</b>	<b>590</b> (522)				X				X			
<b>Understanding Electrocardiography</b>	<b>590</b> (532)			<b>X</b>	X				X			
Statistical Analysis in Human Kinetics	702			X		X	X			X		
Survey of Human Kinetics	703			X				X				X
Interdisciplinary Themes in Biomechanics	725									X		
Advanced Metabolic/Endocrine Physiology of Exercise	730			X				X				X
Concepts of Human Motor Control	761											
Research Practicum in Motor Control	762	X				X				X		
Independent Reading	799	X	X	X		X	X	X		X	X	X

COURSE NAME	COURSE NUMBER	SPR 2004	SUM 2004	FALL 2004	W 05	SPR 2005	SUM 2005	FALL 2005	W 06	SPR 2006	SUM 2006	FALL 2006
Biomechanics Research Practicum	822			X								
Seminar in Psychosocial Aspects of Physical Activity (Applications in Sport & Exercise)	850			X				X				X
Seminar in Psychosocial Aspects of Physical Activity (Social Psychological Issues in PA)	850	X				X				X		
Psychological Factors in Prevention and Rehabilitative Exercise	851											
Seminar in Motor Control: Aging and Motor Performance	860											
Seminar in Sociological Aspects of Physical Activity	870			X				X				X
Socialization and Physical Activity	871											
Candidate for Degree	888	X	X	X		X	X	X		X	X	X
Research Seminar (Comps)	891	X	X	X		X	X	X		X	X	X
Practicum and Seminar in Exercise Physiology	930											
Research and Thesis	990	X	X	X		X	X	X		X	X	X