The November 1998 Bulletin sets forth the degree requirements for students enrolled in the 1998-1999, 1999-2000, and 2000-2001 academic years. Students, please note that you have the following options:

- You may choose to comply with the degree requirements detailed in the Bulletin that is published the first semester of your academic year; or,
- You may choose to comply with the degree requirements that are published at the time of your graduation.

**Readmitted Students:** If you have been readmitted to a Kinesiology program, you must verify the requirements for your degree with the Office of Student Services. You should make an appointment with your student advisor as soon as possible.

**An Important Note to all Students:** You are responsible for understanding and meeting the degree requirements. If you have questions, please make an appointment with your student advisor in the Office of Student Services.

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In the past two decades, we have seen an unprecedented interest in physical activity and fitness. Kinesiology at the University of Michigan is in the forefront of this national trend, offering a broad-based curriculum that can prepare you for careers ranging from sports management and athletic training, to physical education teaching and biomedical research. Just as important, Kinesiology provides a solid foundation of practical courses that are relevant to your personal health and well-being, as well as your professional goals.

In Kinesiology, we are committed to the success of our students. Our undergraduate program benefits from an accessible and responsive faculty who are involved in a wide range of research and professional activities. On the graduate level, Master’s and Ph.D. students work with faculty advisors to design a focused, personalized curriculum. All degrees include opportunities for internships and research. We have built a career planning and development component within our Office of Student Services, already one of the strongest academic support units on campus.

We are excited about the learning opportunities that await you in Kinesiology and look...
The field traditionally known as Physical Education has been part of the University of Michigan curriculum for more than a century. It was historically a department in the School of Education, where generations of students were trained and certified to become teachers and athletic coaches.

As the program broadened, developing curricula in such areas as sports management and communication and movement science, Physical Education was separated from the School of Education and made an independent degree-granting academic unit of the University in 1984. In 1990, the Regents approved the name change to Kinesiology.

Today Kinesiology enrolls approximately 750 undergraduate and graduate students, combining the advantages of a close-knit, small school community while drawing upon all of the resources of the larger university.
The Academic Programs

Kinesiology students complete a minimum of 120 credit hours, with over half of the credits from offerings outside of Kinesiology. Students receiving teacher certification earn 130 credit hours. Students who do not declare a major upon admission are encouraged to do so by the end of the first year, among the Division's four programs of study: Athletic Training, Movement Science, Physical Education, and Sports Management and Communication.

Athletic Training, leading to a bachelor of science (B.S.) degree, includes courses in the clinical evaluation, rehabilitation, and prevention and care of athletic injuries. Students take anatomy and physiology, therapeutic modalities, and various courses related to health, nutrition, exercise and rehabilitation. A comprehensive clinical experience (minimum 1500 hours) working with several of U-M’s 23 varsity sport teams, rounds out the academic program. This meets the requirements for taking the National Athletic Trainers Association (NATA) exam after graduation.

Certified athletic trainers work with teams at the high school and college level, in major and minor league sports, in business and industry, and in sports medicine clinics.

Movement Science, leading to a bachelor of science (B.S.) degree, focuses on the body mechanisms that regulate movement from a physiological, biomechanical and motor control perspective. The curriculum combines courses in anatomy, mathematics, physics, exercise physiology, biomechanics, athletic training, exercise and nutrition, motor learning and development and psychology. Students also complete general electives in humanities, natural science and social science. The Movement Science specialization leads to careers in such areas as cardiac rehabilitation, corporate wellness programs and biomedical research. Movement Science also provides a solid foundation for the Master’s Degree in Kinesiology or other graduate programs, including occupational therapy, physical therapy, and medical school.

The Physical Education specialization leads to a bachelor of science (B.S.) degree with K-12 teacher certification, preparing students for positions in teaching and coaching. The curriculum includes biomechanics, motor learning, tests and measurements in physical education, applied human anatomy and physiology, athletic training, teaching methods, and skill courses. Students complete 12 credits each of humanities, natural science and social science, along with School of Education required courses such as educational psychology and development and education in a multicultural society. The program culminates in a directed teaching experience.

Sports Management and Communication, leading to a bachelor of arts (B.A.) degree, includes courses in sports administration and facility planning and management, sport business, sports and the media, legal aspects of sports administration, along with general electives in humanities, natural science and social science. It may lead to a career in facility management, sport marketing, sports broadcasting or recreation program management. The Sports Management and Communication undergraduate program provides a foundation for graduate studies in SMC, as well as business or law school.

The Faculty

Kinesiology employs approximately 20 full-time and a number of part-time faculty, many of whom are nationally-known leaders in their field. Kinesiology students are assigned a faculty advisor in their major, but are also encouraged to get acquainted with faculty who share their professional interests. Faculty teaching and research interests include:

- Biomechanics
- Motor control
- Youth fitness
- Athletic training
- Sport psychology
- Worksite wellness
- HIV/AIDS education
- Developmental psychology
- Prevention of heart disease
- Media images of athletes
- Exercise, nutrition and weight control
- Exercise motivation and adherence
- Motor development in infants
- Limb movement and postural control
- Physical education teaching methods
- Legal aspects of sports administration
- Societal issues related to race, culture and sports
- Neuroendocrine control of exercise and growth

Many faculty are involved in collaborative research projects with colleagues in the Medical School, the Business School, the College of Engineering, the School of Nursing, the Institute of Gerontology, the School of Public Health and the College of Literature, Science and the Arts. They are active in a wide range of state, national and international professional organizations.
Research Laboratories

Several Kinesiology faculty members direct laboratories which offer undergraduate and graduate students an opportunity to gain research experience:

The Health Management Research Center maintains a data base of health and lifestyle surveys of more than one million individuals and 1,000 organizations. In the HMRC, students are exposed to health risk appraisals, fitness testing and screening, educational programming and other aspects of health promotion. The Center for Human Motor Research (CHMR) promotes collaborative research among faculty and students in the disciplines of biomechanics, motor development and motor control. The Fitness for Youth program promotes innovative physical education activities for over 300 elementary and secondary schools in Michigan. The Paul Robeson Center for Academic and Athletic Prowess addresses issues related to the image of athletes in the media and society.

Other faculty research laboratories are examining such issues as motor development in infants; the relation of exercise to heart disease prevention; exercise as a deterrent to adolescent smoking; consumer behavior and sport marketing.

Students are encouraged to contact individual faculty members and explore opportunities for research collaboration and independent study.

The Office of Student Services

The Office of Student Services (OSS) offers undergraduate and graduate students a full range of services including admissions assistance, orientation, course selection, and advising and counseling around both academic issues and personal development. Counselors also provide information and assistance with non-academic matters such as residency requirements, housing and financial aid. OSS has primary responsibility for orientation and commencement, and acts as a clearinghouse for information about University policies and procedures.

Career counseling is an important part of Kinesiology’s commitment to its students. A Career Development mini-course offers advice on resume-writing and other job-search skills and the Career Resource Center houses information on both jobs and internships offered by schools, hospitals, corporations and other organizations. An intern may earn credit, stipend, salary or all of these depending upon arrangements with the employer and the Office of Student Services. Some internships lead to full-time job offers after graduation.
The Office of Student Services is adjacent to the Kinesiology reception area in 3745. Counselors are available by appointment or on a walk-in basis.

**U-Move**

Historically, physical education classes were part of the University of Michigan's graduation requirement. When the University dropped this requirement in 1970, the elective PE classes were reorganized as the program now called U-Move. Each term U-Move offers a large selection of non-credit exercise, fitness and sports skill classes for students, faculty, staff and the community at the Central Campus Recreation Building and other locations. Classes typically include aerobics, swimming, water safety, scuba, ballroom dancing, kick-boxing, strength training, Tae Kwan Do, tennis and yoga.

Physical Education majors have an opportunity to gain teaching and classroom management experience by teaching U-Move classes or in Kinesiology's summer day camp program, KidSport.

Further information about U-Move classes and enrollment fees is available in room 3060 CCRB.

**Development, Communications and Alumni Relations**

Through its Annual Giving and Major Gifts programs, Kinesiology raises money for such initiatives as pilot research projects, classroom technology and student financial aid. The 21st Century Board, a group of Kinesiology parents and alumni, supports and guides these efforts. An Honor Roll of donors is published annually in Kinesiology’s Movement magazine. Movement is distributed free to all Kinesiology students, parents and alumni as well as other U-M departments.

The Kinesiology Alumni Society was chartered in 1992 to support Kinesiology in its fundraising efforts, to serve as a network for graduates, and to promote the professional and educational advancement of the field. All former students in Physical Education/Kinesiology are viewed as Alumni Society members. There are no dues. The KAS board hosts an annual fall reunion in Ann Arbor and the Honors Brunch, and presents the Kinesiology Alumni Achievement Awards.

**Kinesiology Awards**

The following Kinesiology awards, listed chronologically by year of establishment are named in honor of notable former faculty and Kinesiology graduates. Recipients are chosen by an awards committee and recognized at the Honors Brunch and Spring Commencement. In addition, an annual Teaching Excellence Award recipient is selected by students.

The Paul A. Hunsicker Memorial Award honors the memory of Professor Paul Hunsicker, Chair of the Department of Physical Education for Men, 1958-70 and Director of the Department of Physical Education, 1970-76. The award recognizes graduate and undergraduate students who have demonstrated superior scholarship and professional zeal and promise.

The Lucile M. Swift Honor Award was created by Lucile M. Swift, BS ’39, to financially assist an undergraduate and a graduate student in Kinesiology who demonstrate professional promise as well as financial need.

The Ruth W. Harris Merit Award was initiated by Professor Emeritus Ruth W. Harris upon her retirement in 1986 to recognize and financially assist outstanding doctoral-level graduate students.

The Stephen J. Gaulletti Award honors the first Chair of Kinesiology’s Department of Sports Management and Communication who retired in 1988. It is presented to a first- or second-year student who shows exceptional industriousness and potential.

The Phyllis Ocker Scholarship is named for Assistant Professor Phyllis Ocker, Associate Director of Athletics for Women, 1978-90. It is presented to a female varsity athlete in Sports Management and Communication or Physical Education who has distinguished herself in academics and athletics.

The Laurie Campbell Award is presented to an outstanding woman majoring in Physical Education. It was established by former students of Dr. Campbell, who taught in the Department of Physical Education for Women from 1929-59, in honor of her 100th birthday July 18, 1994.

The Stan Kemp Scholarship was established in 1994 by friends of the late Stanley S. Kemp, BS ’67, football official and business and civic leader. It is designated for an undergraduate who displays Mr. Kemp’s dedication, integrity and idealism. Five $1000 scholarships have been presented each since the endowment was established.

The Joe Vaughn Award has been presented since 1996 to a student of color who emulates Professor Emeritus Joseph Vaughn’s leadership in scholarship and athletics.
Rosa M. Angulo-Kinzler, B.S., University of Barcelona; M.S., Ph.D., Indiana University. Assistant Professor, Movement Science
Marvin O. Boluyt, B.S., Grand Valley State University; M.S., Ph.D., University of Michigan. Assistant Research Scientist
Katarina T. Borer, B.A., Ph.D., University of Pennsylvania. Professor, Movement Science
Christine M. Brooks, D.P.E., University of Otago, New Zealand; M.S., Pennsylvania State University; Ed.D., University of North Carolina at Greensboro. Associate Professor, Sports Management and Communication
Susan H. Brown, B.S., Acadia University; M.S., Ph.D., University of Western Ontario. Associate Professor, Movement Science
Jeanine DeLay, B.A., Miami University; M.A., University of Virginia. Lecturer, Sports Management and Communication
Carrie L. Docherty, B.S., Indiana University; M.Ed., University of Virginia. Co-Director and Lecturer, Athletic Training
Dee W. Edington, B.S., Michigan State University; M.S., Florida State University; Ph.D., Michigan State University. Professor, Movement Science; Research Scientist, School of Public Health; Director, Health Management Research Center
Merle L. Foss, B.S., Jamestown College; M.S., South Dakota State University; Ph.D., University of Iowa. Professor, Movement Science
Anne W. Garcia, B.S., California State University, Fresno; B.A., California State University, San Bernadino; M.S., San Diego State University; Ph.D., University of California, San Francisco. Assistant Professor, Sports Management and Communication. Adjunct Research Investigator, Department of Psychiatry, Medical School
Thomas R. George, B.A., Northeastern State University; M.S., Miami University; Ph.D., Michigan State University. Assistant Professor of Practice, Sports Management and Communication
Melissa Gross, B.A., University of Colorado; M.S., Ph.D., University of California, Los Angeles. Assistant Professor, Movement Science; Assistant Research Scientist, Institute of Gerontology
C. Keith Harrison, B.S., West Texas State University; M.A., California State University at
Dominquez Hills; Ed.D., University of Southern California. Assistant Professor, Sports Management and Communication

Victor L. Katch, B.A., California State University, Northridge; M.A., Ed.D., University of California - Berkeley. Professor, Movement Science; Associate Professor, Department of Pediatrics and Communicable Diseases, Medical School

Charles T. Kuntzleman, B.A., Muhlenberg College; M.Ed., Ed.D., Temple University. Adjunct Associate Professor of Physical Education; Director, Fitness for Youth

Joyce I. Lindeman, B.S., Eastern Michigan University; M.A., University of Michigan. Associate Professor of Physical Education; Associate Director for Curriculum and Instruction; Lecturer, School of Education

Bernard Patrick Maloy, B.A., Wheeling College; J.D., University of Notre Dame; M.S.A., Ohio University. Associate Professor, Sports Management and Communication

David Moore, B.A., University of the West Indies; M.B.A., Middle Tennessee State University; Ph.D., Indiana University, Bloomington. Associate Professor, Sports Management and Communication

Lee H. Somers, B.S., M.S., University of Illinois; Ph.D., University of Michigan. Assistant Professor of Physical Education; Associate Research Oceanographer and Lecturer in Atmospheric, Oceanic and Space Science, College of Engineering; Diving Safety Coordinator, Occupational Safety and Environmental Health

Beverly D. Ulrich, B.S., East Stroudsburg University; M.Ed., West Chester University; Ph.D., Michigan State University. Professor and Director, Kinesiology

Dale A. Ulrich, B.S., M.S., West Chester University; Ph.D., Michigan State University. Associate Professor, Movement Science and Physical Education

Patricia Van Volfkinburg, B.S., Western Michigan University; M.S., University of Michigan. Assistant Professor of Practice and Chair, Department of Physical Education; Director, U-Move; Co-Director, Athletic Training; Lecturer, School of Education

Bruce A. Watkins, B.A., St. Cloud State University; M.A., Ph.D., University of Kansas. Associate Professor, Sports Management and Communication; Associate Director for Research; Interim Director

Kerry B. Winkelseth, B.S., M.S., University of Michigan. Instructor, Physical Education; Director, KidSport

Marilyn A. Yaquinto, B.A., M.A., University of Michigan. Lecturer, Sports Management and Communication

Emeritus Faculty

Donald B. Canham, B.S., M.A., University of Michigan. Professor Emeritus of Sports Management and Communication

Joan E. Farrell, B.A., Lawrence University; M.S., Wellesley College; Ph.D., University of Michigan. Associate Professor Emeritus of Kinesiology

Stephen J. Galetti, B.S., Bowling Green State University; M.A., University of Michigan. Associate Professor Emeritus of Sports Management and Communication


Ruth W. Harris, A.B., Brown University, M.S., Wellesley College; Ph.D., New York University. Professor Emeritus of Kinesiology

Marie D. Hartwig, B.A., B.S., M.S., University of Michigan. Professor Emeritus of Kinesiology

Newton C. Loken, B.S., University of Minnesota, M.A., Ed.D., University of Michigan. Professor Emeritus of Kinesiology

Phyllis M. Ocker, B.S., University of Washington; M.S., Smith College. Assistant Professor Emeritus of Sports Management and Communication
Guy G. Reiff, B.S., University of Southern California; M.A., Colorado State University; Ph.D., University of Michigan. Professor Emeritus of Movement Science
Glenn E. Schembechler, B.S., Miami University; M.S., Ohio State University. Assistant Professor Emeritus of Sports Management and Communication
Kenneth G. Simmons, B.S., Michigan State University; M.S., University of Michigan. Assistant Professor Emeritus of Physical Education
Joseph E. Vaughn, B.S., Fisk University; M.A., Columbia University, D.P.E., Springfield College. Associate Professor Emeritus of Sports Management and Communication
Phyllis S. Weikart, B.S., Beaver College; M.S., University of Michigan. Associate Professor Emeritus of Physical Education

Adjunct and Part-Time Faculty
Richard W. Bancroft
Brad K. Brady
Teresa Bruggeman
Jody L. Buck
Michael Caviston
Hwa Chong
Timothy G. Domke
Robert L. Dunn
Erin L. Flansburg
Barry A. Franklin
James M. Gittleson
Susan R. Graham
Gordon R. Harvey
Beth A. Kuntzleman
Jacquelyn M. La New
Peter V. Loubert
Carol L. Overley
John H. Marshall
Bruce M. Madej
Bernard J. Martin
Pat R. Materka
Harry K. McLaughlin
Philip R. Regualos
Neil Dixon Smith
Michael J. Stevenson
Jake W. Streepy

Kinesiology Administrators and Staff
Beverly D. Ulrich, Director
Bruce A. Watkins, Associate Director for Research; Interim Director
Joyce I. Lindeman, Associate Director for Curriculum and Instruction
Candace Adams, Administrative Assistant
Nia M. Aguirre, Director of Training, U-Move
Beverly A. Ballard, Graduate Program Secretary
Brad K. Brady, M.S., Counselor, Office of Student Services
Sherrie L. Daniel, Academic Secretary
Kay E. Drake, Executive Secretary
Reynetta L. Fath, Financial Clerk
Gail M. Gentes, M.B.A., Administrative Manager
Janet K. Holbrook, Administrative Assistant
Jennifer Jacobowitz, Student Services Assistant
Shelly A. Kovacs, M.S., Administrative Counselor, Office of Student Services; Director of Major Gifts
Brian Langham, Receptionist
Pat R. Materka, Assistant Director for Development, Communications and Alumni Relations
Harry K. McLaughlin, Ph.D., Assistant Director for Student Services
Carol L. Overley, M.A., Counselor and Internship Coordinator, Office of Student Services
Gene A. Poore, M.S., Assistant Director, Fitness for Youth
Philip M. Ray, Systems Administrator
Ray Regualos, Project Manager, Fitness for Youth
Elizabeth M. Tompkins, U-Move Secretary
Karen VanHorn, Secretary, Fitness for Youth

Health Management Research Center
Dee W. Edington, Ph.D., Director
Alex Braunstein, M.P.H., Program Associate
Joanna Broder, M.P.H., Program Associate
Kelly Cali, Center Manager
Chin-Yu Chen, Ph.D., Data Analyst
Van Cowan, M.S., Program Administrator
Marilyn P. Edington, M.A.T., Senior Program Associate
Lisa Hicks, Data Clerk
Steve Kinzler, M.S., Network Administrator
Lavetta Kyle, Data Clerk
Thinh Lam, M.S., Database Manager
Ji Li, Ph.D., Database Manager
KuKu Li, Data Clerk and Systems Technician
Yi Li, M.S., Data Analyst
Chi-Fung Lu, M.S., Data Analyst
Larry Marek, Systems Administrator
Shirley Musich, Ph.D., Data Analyst
Jerry Schatzle, M.B.A., Program Administrator
Elaine Schneuringer, M.S., Senior Program Associate
Alyssa Schultz, M.S., Program Associate
Stacey Yuan, M.S., Database Manager
Lixin Yan, Ph.D., Senior Systems Manager
Louis Yen, Ph.D., Senior Analyst
Wei Zhou, M.S., Database Manager
The roots of undergraduate physical education at the University of Michigan reach back more than a century, with the Regents proposing a structured exercise program or “gymnastic work” in 1869 and the University Senate in 1870 recommending the establishment of a Department of Hygiene and Physical Culture. Regents Field was purchased and male sports teams were recognized by 1890, and with the completion of Waterman and Barbour Gymnasiums in 1894 and 1900, respectively, the men’s and women’s instructional programs got underway. Typical of the time, the courses included the taking of careful physical measurements, marching, and calisthenics. From 1898 until 1970, physical education was required for graduation, although academic credit was only available to those majoring in the degree program. Men’s and women’s undergraduate physical education remained separate throughout that 72-year time span. Like the graduate programs, they owed much of their stability and national prominence to Dr. Elmer Mitchell, who led the men’s program from 1917 to 1958, and Dr. Margaret Bell, head of the women’s program from 1925 to 1958.

Physical education instruction changed and evolved during the period. The rigidly structured Swedish gymnastics gave way to the more informal “natural program of activities” and finally to individualized instruction. In 1921, the Department of Physical Education was added to the School of Education, with the first degrees granted in 1925. During the decades between the world wars, sports, exercise, dance and physical activity all became integral parts of the educational system at Michigan as elsewhere in the country.
The student activist era of the 60s saw resistance to many of the traditional U-M requirements, including physical education, as well as the separation of the men’s and women’s programs. In 1970, the two programs were merged, with Paul Hunsicker as chair. Teacher Education was then the only degree program in physical education and was located within the School of Education.

Under D.W. Edington, appointed chair in 1976, the unit initiated the three separate areas of specialization: Teacher Education, Leisure Studies, and Exercise and Sports Science, leading to a Bachelor of Science degree. These three areas were reorganized in 1984 in response to new career options and on September 21, 1984, the Regents established the Division of Physical Education as a separately governed academic unit. In 1990 they approved the name change to the Division of Kinesiology.

Kinesiology now offers four degree programs: Athletic Training, Movement Science, Sports Management and Communication, and Physical Education teacher certification. In July, 1998, Beverly Ulrich was named as Director of Kinesiology. Today, Kinesiology maintains its traditional offerings while remaining open to change—a balance that grows out of its longstanding commitment to all aspects of the study of movement.

Choosing a Program of Study

All undergraduate students in Kinesiology select one of four programs: Athletic Training, Movement Science, Physical Education or Sports Management and Communication. Many students declare a major at the time of enrollment, and all are encouraged to choose a program of study by the end of their first year.

Academic advising is viewed as an integral part of the educational process. All undergraduate Kinesiology students are assigned advisors. Although students are responsible for knowing and meeting requirements which appear in this Bulletin, students are strongly encouraged to consult with their faculty advisors and the staff of the Office of Student Services each term in planning an individualized curriculum and monitoring progress toward a degree. Beyond the approval of course elections, the relationship between advisor and student can be a valuable aspect of the educational experience.

Distribution Requirement

Students in Kinesiology must complete a minimum of 12 credit hours in courses designated as Humanities (HU), Natural Science (NS) and Social Science (SS). Most of these courses will be taken in the University’s College of Literature, Science, and the Arts. Students may consult either the LSA Bulletin (published yearly) or the University Course Guide (published online) to verify whether particular courses fulfill distribution requirements.

Courses with the designation (Excl), (N.Excl), and (Introductory Composition) may not be used to fulfill the distribution requirement unless an exception is noted below. Acceptable non-LSA courses offered in other schools and colleges are also noted on the next page.

A maximum of 4 hours of independent study credit may be used to meet any one of the distribution requirements. Students who wish an exception to a particular designation should petition the Kinesiology Office of Student Services.

Kinesiology Undergraduate Degree Requirements

To be eligible for graduation from Kinesiology, a student must:

1. Complete the major requirements in an approved degree program in Athletic Training, Movement Science, Sports Management or Communication, or Physical Education.

2. Complete the following courses required of all Kinesiology students: (note: credit hours given in parentheses).

   MVS 110. Biological and Psychological Bases of Human Movement (3)
   SMC 111. Historical and Sociological Bases of Human Movement (3)
   PE 310. Applied Human Anatomy and Physiology (5) or Physiology 101 and Anatomy 401/MVS 300 (4) in the School of Medicine
   SMC 101. Public Speaking and Interpersonal Communications (3)

3. Complete the following courses outside of Kinesiology: English 125 (Introductory Composition) English 225 (Argumentative Writing) (4).

4. Achieve an overall grade point average (GPA) of at least 2.000 in a minimum of 120 credit hours (for Athletic Training, Movement Science or Sports Management and Communication) or 130 credit hours (Physical Education).

5. Satisfy the Residency Requirement. This is defined as (a) taking a minimum of 50 credit hours while enrolled in Kinesiology and (b) being enrolled in Kinesiology when completing at least 24 of your final 30 credit hours.

6. Satisfy the University’s General Education Requirement. The required courses English 125, Psychology 111 count toward this minimum.

This also completes Kinesiology’s Distribution Requirement. Students elect a minimum of 12 credit hours each in courses designated from Humanities, Natural Science and Social Science areas.
Academic Departments for Distribution Requirements

Humanities includes courses designated in the LSA Bulletin as HU or Language Requirement (LR) from: Afroamerican and African Studies; American Culture; Asian Studies; Classical Studies; Communication; English Language and Literature*; Environmental Studies; Far Eastern Languages and Literatures; Film and Video Studies; Germanic Languages and Literatures; Great Books; History; History of Art; College Honors; Linguistics; Medieval and Renaissance Collegium (MARC); Near Eastern Studies; Philosophy; Religion; Residential College; Romance Languages and Literatures; Russian and East European Studies (REES); Slavic Languages and Literatures; Theatre and Drama, University Courses; Women’s Studies. Courses in the School of Music also fulfill the Humanities Distribution.

*Note: All English composition courses designated as (Excl) or (HU) may be counted, but courses designated as Introductory Composition (English 125, 167, or 192) may not be counted.

Natural Science includes courses designated (NS) in the LSA Bulletin from: Anthropology (Biological); Astronomy; Biological Sciences; Chemistry; Computer and Communication Sciences; Environmental Studies; Geography; Geological Sciences; College Honors; Linguistics; Physics; Psychology; Residential College; Statistics; University Courses. Also included are all courses in Mathematics (LSA); all courses in the departments of Anatomy, Biological Chemistry, Human Genetics, Physiology (School of Medicine); Atmospheric and Oceanic Sciences 202 and 203 (College of Engineering); NRE 301(School of Natural Resources and Environment).

Social Science includes those courses designated (SS) in the LSA Bulletin from: Afroamerican and African Studies; American Culture; Anthropology (Cultural); Asian Studies; Communication; Economics; Geography; History; College Honors; Linguistics; Medieval and Renaissance Collegium (MARC); Political Science; Psychology; Residential College; Russian and East European Studies (REES); Sociology; University Courses; Women’s Studies.

Departments and programs in the College of LSA may offer courses in more than one of the distribution areas (HU, NS, SS). Students are advised to carefully select courses with the appropriate designation for the three groups [1: (LR) or (HU); 2 (NS); 3 (SS).] For example, Anthropology (Cultural) 330 currently is the only (HU) designated course; most courses in the Anthropology Department are (SS).

English Composition Requirement

As part of their orientation to the University, all students will submit a portfolio of writing which will be evaluated by the English Composition Board (ECB). Based on their quality of writing, students will be placed in one of four placement tracks:

1. English Composition Writing Practicum 100-105 or ECB Transfer Tutorial 106-109. After completing the Tutorial, students will write a post-test which will either place them into Introductory Composition, into another ECB Practicum, or exempt them from Introductory Composition.

2. Introductory Composition.

3. Exemption from Introductory Composition but with required attendance at the ECB Writing Workshop until certified for exemption.

4. Exemption from Introductory Composition.

The English Composition requirement is met when the student completes one of the five placement tracks described above.

Kinesiology students may receive credit for up to two completed elections of the courses ECB 100-109. Credit for the course(s) will count toward the total 120-130 credits needed for graduation, but not toward any of the other requirements necessary for graduation. An ECB Practicum cannot be taken again for credit once competency for English 125 or the equivalent is achieved or once the course English 125 or the equivalent has been passed.
The Athletic Training Program

The Athletic Training program is a diverse combination of academic course work and clinical experiences. It is designed to educate students on the prevention, treatment, rehabilitation, and immediate care of physically active individuals. It will prepare students to work in the private, public, and professional areas of athletic training. The curriculum is designed to meet National Certification (NATABOC) and accreditation standards set forth by the Joint Review Committee of Athletic Training (JRC-AT) and the Committee on Accreditation of Allied Health Education Programs (CAAHEP).

Students who complete the Athletic Training program will receive a Bachelor of Science (B.S) degree in Athletic Training and will meet the requirements to sit for the National Athletic Trainers Certification Exam. This certification is required for all athletic training professionals.
Athletic Training Admission Requirements
Admission into the Athletic Training program is determined by the student’s total academic record, performance during clinical experiences, and career goals. Criteria for admission to the program are:

1. Admission to Kinesiology
2. Minimum 2.5 overall grade point average with particular attention given to required courses
3. One semester of clinical experience in the Michigan Athletic Training room
4. Application for the Athletic Training program, including:
   - Three letters of recommendation
   - Current transcripts
   - Statement of goals
   - Completion of the Athletic Training application form

Athletic Training Admissions Procedures
Students can receive an application as early as freshman orientation.

Students have the opportunity to shadow an Athletic Trainer during the Fall semester of their freshman year.

Students should have a clinical rotation arranged for the Winter semester of their freshman year.
Applications deadline is April 1st. *

*The number of students admitted to the program is controlled by the number of practicum spaces available. The program is designed for students to be formally admitted into the program as a first semester sophomore. Contact the Athletic Training advisors for information on Winter or junior admission.

English Composition Requirement:
Students must complete English 125 or the equivalent and English 225. English 225 may be counted towards the distribution requirement.

Psychology Requirement:
One course of Introductory Psychology is required. (Psychology 111, or equivalent) and Psychology 350 or SMC 307. A student may wish to select among these according to his/her preference for natural science or social science. Psychology 111 may be counted toward Distribution Area II (Social Science).

Speech Requirement:
One introductory speech course is required.

Natural Science Recommendation:
It is recommended that students take Biology and/or Chemistry in Distribution Area I. These courses will further add to the science behind athletic training.

**Clinical Education**

Before students are officially accepted in the Athletic Training program they must participate in a semester of clinical experiences. During this first semester students rotate every three weeks to a different athletic training room, including, but not limited to: football, general athletic training room; female sport assignment; and a male sport assignment. Upon completion of each rotation, the student will be evaluated and strengths and weaknesses will be discussed with the student. After the rotation period that students will apply to the program. Once accepted, the student athletic trainers will begin six semesters of clinical experience with several of the 23 varsity sports. During the first several semesters the student athletic trainer will work with another student and staff member in a joint effort to provide health care for the student-athlete. The student will be closely monitored and evaluated by the staff athletic trainer. During the final two semesters the student athletic trainer will be assigned a team to work with throughout the year. They will work closely with the staff athletic trainer and be involved in all aspects of the student-athletes health care. These final two semesters are used to give the student additional responsibilities as well as helping the student work independently. This clinical experience will count as 50% of the grade in the Practicum in Athletic Training class. The other 50% of the grade will come from course work covering the competencies of Athletic Training.

**Final Degree Check**

Each student must complete a final degree check in the Kinesiology Office of Student Services. Students should schedule this appointment during the term before the expected term of graduation.
The undergraduate program in Movement Science emphasizes the cross-disciplinary study of movement from physiological, developmental, biomechanical, and motor control perspectives. The program includes required and elective courses, laboratory research opportunities and out-of-class activities. Successful completion of the program can lead to careers in such diverse areas as cardiac rehabilitation, worksite wellness, sports biomechanics, performance evaluation and injury prevention. Students earn a B.S. in Movement Science, which also provides preparation for continuing training in the allied medical professions and graduate school in areas like medicine, physical therapy, occupational therapy, nutrition, and public health.

The Movement Science major consists of two components: the Core and Elective courses. Students may choose to organize their curriculum around one of three interest areas: biomechanics, exercise physiology or motor control.

Biomechanics applies the principles of classical mechanics to the study of the human body in motion. Students develop the skills to analyze movement and to quantify the internal and external forces acting on or within the body during normal or pathological movement. The biomechanics concentration offers a good preparation for graduate studies in biomechanics, ergonomics, physical therapy or rehabilitation medicine.

Exercise physiology focuses on the body’s response to exercise and movement. The curriculum emphasizes the integration of knowledge in such areas as muscle mechanics, anatomy, endocrinology, microbiology, biochemistry, nutrition and systems physiology as they relate to human movement. Exercise physiology lays a foundation for graduate studies and certification for careers in personal fitness training, strength and conditioning coaching and worksite wellness.
Motor control examines the ways movement is learned and controlled through both neural and behavioral mechanisms. Students study such issues as skill acquisition, coordination and motor disorders with respect to balance and locomotion, and eye, head and limb movements. Motor control knowledge is applied in clinical settings such as rehabilitation, physical and occupational therapy, in the instructional fields of physical education, coaching, music and the arts, as well as in ergonomics and human engineering in a variety of industries.

**Movement Science Electives**

**Biomechanics Area**
- MVS 305. Human Movement and Aging: Biomechanics (3)
- MVS 411. Instrumentation and Measurement in Motor Control and Biomechanics (3)
- MVS 530. Graduate Seminar in Biomechanics (3)
- MVS 532. Human Musculoskeletal Dynamics (3)

**Exercise Physiology Area**
- MVS 305. Human Movement and Aging: Physiology (3)
- MVS 441. Exercise and Human Biology (3)
- MVS 442. Hormones and Exercise (3)
- MVS 471. Physical Activity, Health and Disease (3)
- MVS 540. Graduate Seminar in Exercise Physiology (3)
- MVS 541. Experiments in Human Exercise Physiology (3)
- MVS 542. Exercise and Nutrition (3)
- MVS 572. Fitness evaluation and Exercise Prescription (3)
- MVS 574. Worksite Wellness (3)

**Motor Control Area**
- MVS 305. Human Movement and Aging: Motor Control (3)
- MVS 305. Sensorimotor Development (3)
- MVS 411. Instrumentation and Measurement in Motor Control and Biomechanics (3)
- MVS 421. Disorders of Voluntary Movement (3)
- MVS 422. Motor Learning (3)
- MVS 520. Graduate Seminar in Motor Control (3)
- MVS 521. Visuomotor Coordination (3)

Note: 500 level courses are intended for graduate students. Exceptional undergraduates may be admitted at the instructor’s discretion.

Students select a minimum of two electives from one of the three foundation areas (Biomechanics, Exercise Physiology, Motor Control) and one elective from another. These credits cannot be independent study, internship, honors or reading courses.

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**Movement Science Degree Requirements**

Students who wish to complete the program in Movement Science must complete the following Kinesiology requirements:

- MVS 110. Biological and Psychological Bases of Human Movement (3)
- SMC 111. Historical and Sociological Bases of Human Movement (3)
- SMC 101. Public Speaking and Interpersonal Communication (3)
- MVS 250. Scientific Literacy and Statistics (3)
- MVS 320. Motor Control (4)
- MVS 330. Biomechanics of Human Movement (4)
- MVS 340. Exercise Physiology (4)
- MVS 541. Experiments in Human Exercise Physiology (3)

May come from any course in AT, MVS, SMC or PE.

Requirements outside of Kinesiology:
- English 125 or equivalent (4)
- English 225 or equivalent (4)
- Psychology 111. (4)
- Anatomy 401 or MVS 300. (4)
- Physiology 101. (4)
- Math 105 or equivalent (4)
- Physics 125 or equivalent (4)

Students must also complete the Distribution Requirement of 12 or more credits in each of three areas: Humanities, Natural Science, Social Science
**Kinesiology Electives**

Students must elect 10 additional credits in Kinesiology. These may be in AT, MVS, PE or SMC and include internships, independent readings, senior honors and laboratory rotations. Students may elect more than 10 Kinesiology electives and thus reduce the University-wide electives necessary for the 120 credits required to graduate.

*University Electives:* Students may elect up to 77 credits from the general university courses (including the distribution requirement) to complete the 120 credit requirement for graduation. Students are advised to select their electives credits carefully, considering requirements for graduate or professional programs.

**Distribution Requirements**

Students must complete a minimum of 12 credits in each of three areas: Humanities, Natural Science and Social Science, to fulfill the University’s commitment to providing a liberal arts education.

**Internships in Movement Science**

Movement Science majors are eligible to apply for an internship (MVS 386) after completing the core requirements plus anatomy and physiology and earning 55 credits. Students earn 1-4 credits (graded S/U). A wide variety of internship experiences are available in hospitals and clinics, athletic training facilities, rehabilitation settings, worksite wellness programs, fitness testing laboratories and other settings. Internships are opportunities to gain practical experience outside the classroom and further explore career options.

Students apply for internships by contacting the employer directly, just as they would apply for a job. Information on internship opportunities is available from the internship coordinator in the Office of Student Services as well as U-M’s Office of Career Planning and Placement. After arranging an internship, students must complete an internship packet, (available from the Office of Student Services) in consultation with their faculty advisor and site supervisor. The completed packet must be submitted to and approved by the internship coordinator in the Office of Student Services prior to the first day of the term in which in which the internship begins.
The Sports Management and Communication Department and Undergraduate Program

The Sports Management and Communication program was established in 1985 in response to the need for qualified professionals in the business of sports. The program in SMC familiarizes students with the diverse aspects of sports management and communication, including legal issues, promotion and marketing, fundraising, facility management, and sports media relations. Students in the program may prepare for management positions in professional, collegiate, and interscholastic sports; management positions in campus and community programs; and jobs as sports information and communication specialists. The program also provides a foundation for graduate programs such as an MBA or law school. The SMC field experience and internship program provides students with practical work experience that often links to job opportunities after graduation. The SMC program also reflects a strong commitment to the liberal arts. Students who complete the SMC program receive a Bachelor of Arts (B.A.) degree in Sports Management and Communication.

Distribution Requirements
Students must complete the Distribution Requirement of a minimum of 12 credits in each of three areas (Humanities, Natural Science, Social Science) to fulfill Kinesiology’s commitment to providing a liberal arts education.
**Field Experience and Internships**

The Sports Management and Communication field experience and internship programs enable students to earn credit and gain valuable training in a variety of business, sports and school settings.

In the SMC Field Experience (SMC 390), students of sophomore or higher standing may earn 1 - 8 credits through supervised observation and participation in a variety of work settings. The specific requirements are arranged in consultation with the student’s faculty advisor.

Students are eligible to earn Internship credits (SMC 403) after earning 55 credits, achieving junior standing, and completing the SMC core courses. The GPA requirement is 2.3 in the major and 2.0 overall. Internships usually involve 200 or more hours of work per term and earn 4 credits.

Students apply for internships by contacting the employer directly, just as they would apply for a job. Information is available through Kinesiology’s Office of Student Services as well as U-M’s Office of Career Planning and Placement. The completed internship packet, (available from the Office of Student Services) must be submitted and approved prior to the first day of the term in which the internship begins.

Typical internship settings include sport and recreation facilities; corporate and business offices; hospitals, health care, and fitness organizations; broadcast and print news media; sports information offices; and the management and marketing offices of professional and intercollegiate sports teams. Some internships are available on campus through units like the Department of Intercollegiate Athletics and Yost Ice Arena.

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**Sports Management and Communication Degree Requirements**

Students who wish to complete the program in Sports Management and Communication must complete the following courses:

- MVS 110. Biological and Psychological Bases of Human Movement (3)
- SMC 111. Historical and Sociological Bases of Human Movement (3)
- SMC 101. Public Speaking and Interpersonal Communication (3)
- SMC 203. Sport Business (3)
- PE 310. Anatomy/Physiology (5)
- Business and Management Electives (6 or more credits)
  - SMC 300. Sport Management (3)
  - SMC 301. Facility Planning (3)
  - SMC 303. Legal Aspects of Sports Administration (3)
- Marketing and Communications Electives (6 or more credits)
  - SMC 302. Sports and the Media (3)
  - SMC 305. Advertising and Promotion Strategy (3)
  - SMC 306. Principles of Marketing (3)
  - SMC 401. Sport Marketing (3)
  - SMC 435. Sport and the Consumer (3)
- Other SMC Electives (3 or more credits)
  - SMC 204. Writing for Media and Management (3)
  - SMC 226. Personal Exercise and Weight Training Programs (3)
  - SMC 304. Sport Ethics (3)
  - SMC 307. Psychological Aspects of Sport and Exercise (3)
  - SMC 308. International Sport Policy (3)
- Kinesiology Electives (16 or more credits)
  - May come from any course in AT, MVS, PE or SMC

Requirements outside of Kinesiology
- English 125 or equivalent (4)
- English 225 or equivalent (4)
- Psychology 111 (4)

Students must also complete the Distribution Requirement of 12 or more credits in each of three areas: Humanities, Natural Science, Social Science.
The Physical Education program offers students extensive preparation in education courses leading to K-12 certification, as well as providing students with strong preparation in the liberal arts. Students in Physical Education learn how to communicate to students of varying ages, abilities, and backgrounds the intellectual, physiological, and biomechanical concepts of physical activity. The Physical Education curriculum, including a K-12 Methods course required of all students, emphasizes the importance of understanding the role of family, community, and school in a student’s educational experience, and of psychological and sociological factors that can influence learning. The directed teaching requirement provides students in the program with the opportunity to gain practical teaching experience under the supervision of trained faculty.

Students who complete the Physical Education program will receive a Bachelor of Science (B.S.) degree in Kinesiology and a Michigan Secondary Provisional Certificate. For further information about Physical Education Program requirements, admission procedures, and application deadlines, students should consult the Physical Education Chair within Kinesiology.

The School of Education Office of Academic Services also assists students in applying to the program and reviewing Physical Education requirements. This office, along with the Kinesiology Office of Student Services and the Physical Education Chair are the three main sources of information and support for Physical Education students.

Physical Education Admission Criteria

Each applicant is evaluated on the basis of probable success in teaching and availability of places in the program. The criteria for admission are:

- A minimum 2.5 overall grade point average with particular attention given to courses required for certification.
- Experience with children (120 documented hours, minimum) that indicates a desire to teach; for example, experience as a tutor, camp counselor, coach, teacher’s aide, or participation in the University of Michigan’s Project Community, Project Outreach, or KidSport.
- Three recommendations from persons able to address the student’s potential to succeed as a teacher. One letter must be from an instructor or
teaching assistant at the University level from the area of study in which the applicant wishes to complete his or her major.

• A statement of personal goals, which should include the applicant’s commitment to education as a career.

• Copies of transcript, SAT, and/or ACT scores.

Prior to application students should have completed the following courses: English Composition, Introduction to Psychology, and Public Speaking. In addition, students should have made progress toward the Humanities, Natural Science, and Social Science Distribution Requirement as well as toward the major and minor requirements.

Physical Education Admission Procedures

Students who wish teacher certification must formally apply to the University of Michigan Teacher Certification Program administered by the School of Education. Formal application to the certification program should occur during the sophomore year. Students must have junior standing (a minimum of 54 credit hours) at the time of enrollment in the program. The application for admission to the Teacher Certification Program is obtained from and returned to the School of Education Office of Academic Services. Consult that office for fall and winter term deadlines.

Students who are unable to meet the fall or winter term deadlines (transfer students, post-degree students and others) should apply as soon as possible for consideration on a space-available basis. Consult the Physical Education Chair for further information.

Teaching certification candidates must also satisfactorily complete a certified minor program of study and complete a minimum of 130 credit hours. All students must have a minimum grade point average of 2.000 overall immediately prior to the term of directed teaching and also at the time of graduation and/or the certificate recommendation. This is calculated using all University of Michigan courses which appear on a student’s transcript.

English Composition Requirement

Students must complete English 125 or the equivalent. This course may not be counted towards the distribution requirement. English 225 is required, and does count toward the Humanities requirement. One course in Introductory Psychology is required (Psychology 111 or the equivalent) and Psychology 350.

Physical Education Degree Requirements

Kinesiology students who wish to graduate in Physical Education must complete a major course of study (shown below) and a minor course of study.

SMC 101. Public Speaking and Interpersonal Communications (3)
MVS 110. Biological and Psychological Bases of Human Movement (3)
SMC 111. Historical and Sociological Bases of Human Movement (3)
PE 310. Applied Anatomy and Physiology (5)
PE 349. Water Safety Instructor/Lifeguard Instructor (2)
PE 350. Selected Secondary Activities (3)
PE 353. Selected K-12 Activities and Mainstreaming (3)
PE 354. Selected Elementary Activities (3)
MVS 340. Exercise Physiology (4)
PE 316. First Aid and Safety Education (2)
MVS 432. Biomechanics of Sport (3) or MVS 330. Biomechanics of Human Movement (4) (requires minimum Math 105 proficiency)
PE 336. Children’s Rhythms (3)
PE 252. Tests and Measurements (3) or MVS 250. Scientific Literacy and Statistics (3)
PE 332. Principles of Motor Behavior (3) or MVS 320. Motor Control (4)
Kinesiology Electives (1-3)

Requirements outside of Kinesiology:
English 125. or equivalent (4)
Psychology 111. Introduction to Psychology
Psychology 350. (4)
Math 105. or equivalent (4)
Physics 106 or 125. (3) or (4)
English 225. (4)

Courses Required within the School of Education:
Ed 307. Practicum in Teaching Methods (2)
PE 414. or Ed 414. Directed Teaching Seminar: Physical Education (1-2)
PE 415 or Ed 415. Directed Teaching in Physical Education (Elementary and Secondary) (6-12)
Ed 391. Educational Psychology and Human Development (3)
Ed 392. Education in a Multicultural Society (3)
Ed 402. Reading and Writing in Content Areas (3)
PE 444 or Ed 444. K-12 Physical Education Methods (4)

Students must complete the Distribution Requirement of a minimum of 12 credits in each of three areas (Humanities, Natural Science, Social Science).
**Directed Teaching**

Directed Teaching provides students with the opportunity to practice and refine their teaching skills under the supervision of Kinesiology faculty as well as teachers from local area schools. This important feature of the Physical Education program allows students to develop professional standards and abilities, to identify strengths and weaknesses in their teaching, and to ensure quality education for themselves and for their future students. The procedures for Directed Teaching are outlined below.

**Prerequisites for Enrolling in Directed Teaching**

1. Attainment of senior status (84 credit hours completed).
2. A minimum 2.000 grade point average overall in all courses completed at the University of Michigan prior to the term of directed teaching.
3. A minimum 2.000 University of Michigan grade point average in each major and minor.
4. Completion of the following courses: PE 444 (Ed 444), Ed 307, Ed 391 and Ed 392 (“S” required in 307; “C” (2.000) or better required in 391 and in 444).
5. A passing score on the basic skills examination of the Michigan Test for Teacher Certification. (A passing score for the examination in each appropriate subject area in which a person is to be certified is required prior to being recommended for certification.)

**Directed Teaching Requirements**

PE 415 (Ed 415), Directed Teaching in Physical Education (Elementary and Secondary), must be elected for 12 credits. Exceptions must be approved by the Physical Education Chair. This course is graded “S/U” and must be completed with a grade of “S.” Elementary and Secondary assignments require a commitment of five full days per week. The student teacher is required to attend the corequisite two-credit Seminar in Directed Teaching, PE 414 (Ed 414) (1-2).

**Directed Teaching Application Procedures**

All students admitted to the teacher certification program for the fall and winter terms must apply by the third week of the term for directed teaching in subsequent terms. Students who do not apply at least one term prior to their projected directed teaching assignment may need to postpone their directed teaching to a later term.

The application must be obtained from and returned to the Directed Teaching Office, School of Education. In addition, a supplementary application must be completed early in the term preceding the directed teaching assignment. Additional forms must be obtained and returned to the Teacher Education Chair.

**Transcript**

An academic report of a student’s current University of Michigan transcript must be requested by the student and sent directly from the Transcript Office (555 LSA) to the Directed Teaching Office, School of Education. For deadlines, consult the Directed Teaching Office.

Directed teaching applications will not be processed without a current academic report of the University of Michigan transcript. Official copies of any other relevant transcripts must be submitted to the Office of Academic Services, School of Education. Transcripts are needed to verify completion of all of the prerequisite courses and grade point averages. A copy of the “Grade Report” form covering all courses elected before directed teaching but not yet recorded on the above transcript must be submitted to the School of Education Office of Academic Services.
**Credits Required for the Degree**

The Teacher’s Certificate may not be granted before completion of a minimum of 130 credits and a Bachelor’s degree from the University of Michigan or an institution with an approved Physical Education Program.

**Certification**

**Michigan Provisional Certificates**

Upon successful completion of degree and certification requirements, graduates will be recommended to the State Board of Education for a Michigan State Secondary Provisional Certificate. Secondary certificates qualify the holder to teach their major(s) and minor(s) in grades 7-12. A major in K-12 field, such as art, dance, library science, or physical education, usually is granted on a secondary certificate, but a K-12 field may be added to an elementary certificate.

The initial provisional certificate is valid for six years from the year of issuance, expiring on June 30th of that year. Many other states will grant a certificate based on equivalency. To determine eligibility for a certificate in another state, contact the State Department of Education in that state.

**Certification Fees**

Act 339 of the Public Acts of 1988 includes a fee assessment system for teacher/administrative certificates. The date of issuance for the certificate will be determined by the State Department of Education. (Certificates will be assigned a date based on when the fee has been paid by the applicant). Below is a partial listing:

- Provisional Certificate
- Professional Education
- School Administrator Certificate
- Renewal of Provisional
- Endorsements
- Continuing/Permanent Reinstatement

For additional information, contact the Office of Academic Services, School of Education.

**Teacher Certification Testing**

Act 267 of the Public Acts of 1986 requires that persons preparing to be teachers in Michigan pass both a basic skills examination and an examination in each appropriate subject area in which they are to be certified. Such tests may be taken at different times and sites while enrolled in an approved teacher preparation program, but the basic skills test must be passed before a person is enrolled in student teaching.
The Department of Education utilizes a private testing service which may assess a fee for taking the basic skills and subject area examinations. Both the basic skills examination and subject area tests are determined and approved by the Michigan State Board of Education.

Degree and Certificate Granting

The degree and certificate are granted at the end of the winter (April), spring/summer (August), or fall (December) term during which all requirements have been completed. The University of Michigan grants the degree and recommends the granting of the certificate; the certificate is granted by the Michigan State Board of Education.

The Physical Education Minor

Students not enrolled in Kinesiology may take the following minor program of study (24 credit hours):

- PE 310. Applied Anatomy & Physiology (5)
- PE 316. First Aid and Safety Education (2)
- PE 350. Selected Secondary Activities (3)
- PE 353. Selected K-12 Activities and Mainstreaming (3)
- PE 336. Children’s Rhythms (3)
- PE 141. Beginning Swimming (1)
- PE 349. Water Safety Instructor/Lifeguard Instructor (2)

2 courses from the following:
- MVS 340. Exercise Physiology (4)
- MVS 432. Biomechanics of Sport (3) or MVS 330. Biomechanics of Human Movement (4)
- PE 332. Principles of Motor Behavior (3) or MVS 320 Motor Control (4).
- 9-11 electives within the Kinesiology (in consultation with the Physical Education Chair)

Residency Requirement

All students must complete a minimum of 20 credits in Education courses of which 10 credits, including Ed 307, PE 444, PE 414 and PE 415 must be elected while enrolled at the University of Michigan. For additional requirements, consult the School of Education.

Final Degree Check

In addition to completing a final degree check in the Kinesiology Office of Student Services, a student must make an appointment with a School of Education Office of Academic Services staff member for a final certification audit and to complete forms required for certification. Students should schedule this appointment during the term before the expected term of graduation.

Health Minor and Other Options

Students must complete at least one major and one minor to be certified to teach. A second major may be substituted for the minor. Most Physical Education students complete a major in Physical Education and a minor in another field, which they will be certified to teach in the secondary schools; examples include social studies, math and health.

Students should also consult the Majors and Minors section in the School of Education Bulletin to select a minor or second major and to verify requirements and grading policies. This Bulletin is available from the Office of Academic Services, 1033 School of Education Building. Students in the School of Education may elect Physical Education as a minor field on the secondary level, grades 7-12.

Health Minor Requirements

Students choosing to complete the Kinesiology Health Minor also take the following courses:

- PE 373. Issues in Health and Wellness
- PE 316. First Aid and Safety
- SW 615. Drugs, Society and Human Behavior or Psychology 125. Drugs, Culture and Human Behavior
- MVS 241. Exercise, Nutrition and Weight Control or EIH 530. Human Nutrition
- PE 360. Athletic Training 1
- NUR 305. Human Sexuality
- Psychology 453. Socialization of the Child
- PE 473. School Health Programs
- PE 475. HIV/AIDS, other Communicable Diseases, and the Immune System
The policies and procedures described in this section govern the conduct of academic matters affecting students enrolled in Kinesiology. Exceptions to these policies may be granted only upon written petition through the Office of Student Services (OSS).

Course Load and Degree Progress

Undergraduates may elect academic loads of 12-18 credits for a full term or 6-8 credits for a half-term (spring or summer). Exceptions to this policy are first-year and transfer students. First-year students are encouraged to elect 12-14 credits for a full term. Students who wish to elect loads exceeding 18 credits (full term) or 8 credits (half term) must obtain special approval from the Office of Student Services. Students in Physical Education who wish to elect more than 17 hours during their term of directed teaching must petition for permission; (contact the Office of Student Services or the Physical Education Chair).

Students usually complete their degree program in 8-10 regular (fall and winter) terms of full-time study, or the equivalent, but Kinesiology recognizes that many students may require more or less time to complete their program. Since the considerations for determining academic loads and degree progress are often complex and personal, students are encouraged to discuss elections with their advisor each term.
**Class Standing**

Class standing is determined by the number of credits earned toward a degree:

- Freshman: fewer than 25 credits
- Sophomore: 25 through 54 credits
- Junior: 55 through 84 credits
- Senior: 85 credits or more

**Adding and Dropping Courses**

Students are encouraged to finalize their schedules as early as possible. There are always more options available prior to the drop and add deadlines.

Schedule changes during the first three weeks of a full term (or the first two weeks of a half term) should be approved by an advisor. Schedule changes after the third week of the fall and winter terms require written approval of an OSS staff member. Late elections are discouraged and will be approved by OSS staff only under extraordinary circumstances. Students considering schedule changes are encouraged to discuss their situation with a faculty advisor or counselor in the Office of Student Services before the drop/add deadlines. After the third week of term, a student who officially drops a course receives a “W” on the transcript.

The deadline for dropping a course without petition occurs six weeks after the first day of class for first-year students of the fall or winter term and the second Wednesday of the spring and summer half terms. All Kinesiology undergraduate students requesting to drop a course after these deadlines must complete a Late Drop Petition available in the Office of Student Services. Late Drop Petitions must be signed by the course instructor and the student’s assigned faculty advisor. The final decision will then be made by a Student Services staff member based on faculty policies concerning late drops. Drops during this period in the term are seen as a serious matter and should be requested only in circumstances that could not have been predicted or prevented by the student. Students are encouraged to meet with an OSS staff member regarding any situation in which they anticipate the need to drop a course. OSS staff will assess the situation and advise the student of various options.

The following reasons will be considered sufficient (when appropriate evidence is presented) for approval of late drops:

1. Incorrect course placement due to University error.
2. The content of a course differs significantly from that described by the instructor during the first six weeks of the term.
3. A change in the student’s educational goals or objectives which may result in significant change of program or a cross-campus transfer.
4. Demonstrable personal conflict with the instructor.
5. Severe personal health problems.
6. Other severe and unforeseen problems which would adversely affect the student’s ability to complete the course.

Students should make every effort to plan ahead throughout the term in order to prevent problems which may affect their academic performance. Any course dropped without permission will be recorded as an unofficial drop, designated on the transcript as “ED,” which is figured into the grade point average as an “E.”

**Withdrawal from the University**

Students may withdraw completely from the University at any time during the term up until the last day of classes. A signature and approval is required from one of the staff members in the Office of Student Services. After the last day of classes, a student who wishes to withdraw must petition for retroactive withdrawal and should consult the Office of Student Services regarding this process. Withdrawals after the third week of the term result in transcript notations.

Students should be aware that the University fee structure has specific deadlines that are printed in the Time Schedule for each semester.
Repetition of Courses

Students repeating a course in which they originally earned a grade of A+ through D-, “P,” “CR,” or “S,” will receive Michigan Honor Points but no additional credit toward a degree. The course and grade appear on the transcript with the notation “Not for Credit.” Repetition of a course in which an “E,” “F,” or “U” grade was originally earned produces both credit hours toward a degree and Michigan Honor Points for courses elected on the graded pattern; there is no special transcript notation. In all such cases, the first election and grade earned remain on the transcript.

Special Kinds of Academic Credit

Independent Study

Credit toward graduation will be given for up to 10 hours of independent study with a limit of 6 hours in Kinesiology. All 10 hours may be taken outside Kinesiology. To be eligible for independent study (MVS 382, 384, and 488; PE 370, 380 and 470; and SMC 370, 380 and 470), a student must have completed a minimum of 54 credit hours. A student must have a minimum 3.000 G.P.A. overall prior to enrolling in MVS 382 or MVS 384. Each independent study course is 1 or 2 credit hours. No more than 4 credits of independent study may be elected per term.

A maximum of 4 credits may be used to meet any one of the areas within the Distribution Requirement. Students must obtain written approval from the instructor of any independent study course to be used for fulfillment of the Distribution Requirement, and must return this approval to the Office of Student Services.

Field Experience

Credit is available through several departments within LSA as well as through Kinesiology. Two popular field experience courses in LSA include Project Community (Sociology Department) and Project Outreach (Psychology Department).

Since field experience options differ among the four degree programs, students should be sure to consult their faculty advisor for specific information.

Transfer Credit

A limited amount of transfer credit is accepted toward the degree. For further information about transfer credit for Kinesiology courses, contact the Office of Student Services. For further information about transfer credit for courses outside of Kinesiology, contact the University’s Office of Credit Evaluations, 1220 Student Activities Building.

Extension and Correspondence Courses

A maximum of 10 credit hours may be earned in a combination of correspondence and extension courses. Correspondence and extension courses offered by the University of Michigan earn credits toward graduation and honor points. Correspondence and extension work elected at another institution with an accepted department of correspondence study earns credit toward graduation, but no honor points. University of Michigan extension credit is considered out-of-residence credit and must be transferred by the same transfer credit procedures as credit earned at outside institutions.

Honor Points

The honor points earned for a course are calculated by multiplying the number of credit hours for which the course was elected by the honor point value of the grade received in the course. For example, a 3-hour course with a grade of “B” is worth 9 honor points. The grade point average is obtained by dividing the total number of honor points earned by the total number of hours elected with honor point credit.
Pass/Fail Option

Kinesiology offers an optional pass/fail grading pattern so that students can explore other disciplines and courses within the University.

You may elect one course outside of Kinesiology each term on a pass/fail basis under the following guidelines:

1. A maximum of four courses outside of Kinesiology may be elected on a pass/fail basis (no more than one per term). This does not include courses that are mandatory credit/no credit or satisfactory/unsatisfactory.

2. A change in grading pattern for a course is not permitted after the first three weeks of a full term or first two weeks of a half term. The grading pattern must be indicated on the official class schedule printout. Petitions requesting a change of pass/fail to a letter grade or vice versa will not be accepted after the first three weeks of the term.

3. The course(s) elected pass/fail will carry graduation credit but no honor points.

4. Instructors will report grades as usual “A+” through “E.” The Office of the Registrar will then translate the grades as follows:
   - A grade of “A+” through “C-” shall be entered on the transcript as “P” (pass-for credit).
   - A grade of “D+” or lower shall be entered on the transcript as “F” (fail-no credit).

5. Kinesiology courses may not be elected as pass/fail.

Student Records

Admissions and advising files are maintained by the Office of Student Services. Students who wish to review their advising files may do so by scheduling an appointment with an OSS staff member. Students have the right to examine and request duplicate copies of all materials in their own academic files. Students may also add clarifying notes and other materials to their advising files at any time.

Access to student advising files is restricted to academic advisors and administrative and clerical staff. The Family Education Rights to Privacy Act is observed for all matters relating to student records. The official University of Michigan policy on student rights and student records is published each term in the University Time Schedule.

Grading System

Kinesiology uses the standard University of Michigan grading system:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Honor Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>4.0</td>
</tr>
<tr>
<td>A</td>
<td>4.0</td>
</tr>
<tr>
<td>A-</td>
<td>3.7</td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
</tr>
<tr>
<td>B-</td>
<td>2.7</td>
</tr>
<tr>
<td>C+</td>
<td>2.3</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Grade</th>
<th>Honor Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>2.0</td>
</tr>
<tr>
<td>C-</td>
<td>1.7</td>
</tr>
<tr>
<td>D+</td>
<td>1.3</td>
</tr>
<tr>
<td>D</td>
<td>1.0</td>
</tr>
<tr>
<td>D-</td>
<td>0.7</td>
</tr>
<tr>
<td>E</td>
<td>0.0</td>
</tr>
</tbody>
</table>

Academic Records and Transcripts

The Academic Record is an official record of a student’s course elections, grades, and credits earned toward a degree. It is stored electronically. The transcript contains the cumulative record of a student’s enrollment. When degree requirements have been satisfied and a student has graduated, the degree earned is posted on the transcript.

Kinesiology academic records are maintained in the Office of Student Services and by the Office of the University Registrar, Records Office, 1513 LSA Building. Students who believe an error has been made on their transcripts should contact the Office of Student Services.

Official transcripts and unofficial academic reports are available from the Transcript Office, 555 LSA Building or can be ordered online from Wolverine Access. Normally the processing of transcript requests takes a few days, but students should be aware that at the end of each semester the process is likely to be delayed due to grade posting.

Transcript Notations

CR/NC (Credit/No Credit): If the instructor of a mandatory Credit/No Credit course decides a student’s work deserves credit, “CR” (Credit) is posted on the transcript. If the instructor decides that a student’s work does not justify the awarding of credit, “NC” (No Credit) is posted on the transcript. Courses designated “CR” earn credit toward degree but no honor points. Courses designated “NC” earn neither credit nor honor points.

ED (Unofficial Drop): Courses dropped without permission will be designated on the transcript with a grade of “ED” (Unofficial Drop). The “ED” is figured into the grade point average as an “E.”
I (Incomplete): Students are expected to complete their courses and submit all coursework on time. Given the approval of the instructor, a student may earn an Incomplete (“I” on the transcript) for a course in which a small amount of the work remains unfinished at the end of the term. All unfinished work must be submitted to the instructor within four weeks after the beginning of the next full or half term in which the student is enrolled. The instructor then has a short period of time to submit the grade to the registrar’s office.

If the student fails to complete the work to the instructor’s satisfaction and within the four-week time limit, the “I” will automatically lapse to an “E” and no credit will be granted for the course. Students who are unable to complete the remaining coursework by the Incomplete deadline may, with the instructor’s permission, petition for an extension of time through the Office of Student Services.

NR (No Report): A notation of “NR” on the transcript signifies that the instructor has not reported a grade. If the “NR” is not resolved within four weeks after the beginning of the next fall or winter term in which the student is enrolled, the notation will automatically be changed to an “E.”

P/F (Pass/Fail): Students in good academic standing may elect a total of four courses outside Kinesiology on a pass/fail basis, but no more than one per term. Instructors report grades as usual to the Office of the Registrar, which then translates the grades as follows: A+ through C- = P (credit but no honor points); D+ or lower = F (no credit and no honor points).

S/U (Satisfactory/Unsatisfactory): Some courses, particularly in the area of field experience, are graded “S” and “U” only. Students may not petition for any other grade in these courses.

W (Withdrawal): The notation of withdrawal indicates that the course was dropped officially after the third week of a full term or the second week of a half term.

X (Absent from Examination): Final examinations are given in accordance with the schedule published in each term’s Time Schedule. Students who miss the final examination but have completed all other work for a course will receive a notation of “X.” Policies for resolving an “X” grade are the same as those for an “I.”

Auditing Courses (Visitor Status)
Students are expected to elect courses for credit. Occasionally, however, a student may wish to attend a course but not elect it for credit, in which case he/she may officially audit a course. An official audit obligates a student to attend classes regularly and complete course requirements (for example, papers, laboratory assignments, tests, and the final examination). Regular tuition fees apply, and the course appears on the transcript with the notation VI (Visitor); no grade is posted and no degree credit earned.

To arrange an official audit, a student must submit a written statement, signed by the student and the instructor, to the Office of Student Services. The statement must indicate the reasons for the official audit and outline the student’s obligation to fulfill course requirements. Students should obtain
Students must be in good standing (an overall grade point average of at least 2.000) in order to be considered eligible for graduation from Kinesiology, for directed teaching, and need a 2.5 for teacher certification. At the end of each term the records of all students whose term or overall grade point average has fallen below a 2.000 are reviewed for academic discipline purposes. Each student subject to academic discipline is dealt with on an individual basis. Kinesiology may take the following discipline measures:

Probation. If a student’s cumulative average falls below 2.000, he or she will be placed on academic probation. Students placed on probation will be informed of their probationary status by a letter outlining the terms of their probation and asking them to participate in a program of academic counseling. Students on probation are expected to raise their overall grade point average to 2.000 (or at least to make substantial progress toward reducing their honor point deficit) during their next term in Kinesiology.

Probation with Warning (PW). Students on probation with warning are experiencing severe or recurrent academic difficulties. If a student shows no improvement by the following semester, the student will be dismissed from the program.

Academic Dismissal (NTR/Dismissal). A student may be dismissed from Kinesiology if he or she is on probation and is not making adequate progress toward achieving a 2.000 overall grade point average. When reaching a decision involving academic dismissal, Kinesiology considers the student’s academic career and promise as well as any extenuating circumstances.

Student Academic Conduct

The case of each student whose academic or nonacademic conduct is deemed unsatisfactory is reviewed in accordance with Kinesiology disciplinary procedures. Violations of ethical behavior include but are not limited to plagiarism, cheating, fabrication, aiding and abetting dishonesty, and falsification of records.

Plagiarism means submitting a piece of work (such as an essay, research paper, assignment, lab report) which in part or in whole is not the student’s own work and which does not correctly credit those sources to their original author.

Cheating means using unauthorized notes, study aids, or information from another student’s paper on an examination; altering a graded work after it has been returned and then submitting the work for re-grading; and allowing another person to do one’s work and to submit the work under one’s own name.

Fabrication means presenting data which were not gathered in accordance with guidelines defining the appropriate methods for collecting or generating data and failing to include a substantially accurate account of the method by which the data were gathered.

Aiding and abetting dishonesty means providing material or information to another person with knowledge that these materials or information will be used improperly.

Falsification of records and official documents involves altering documents affecting academic records or forging an authorizing signature or information on an official academic document, including an election form, grade report, letter of permission, or petition.
**Petitions**

Students have the right to petition or appeal undergraduate program policies. Petitions should be discussed with an Student Services staff member prior to submission. The Office of Student Services welcomes hearing from students and will assist with any concerns or problems that may arise regarding the petition or appeal process. Petitions for waiver of undergraduate requirements should be addressed to the Associate Director for Curriculum and Instruction and are reviewed by a Kinesiology committee.

**Residence Status**

Tuition is higher for nonresidents of Michigan than for residents. To find out if you qualify for in-state residence status, consult the University’s residence regulations. Questions about residence status or requests for a change in residence status should be addressed to the Office of Student Certification and Residence Status in the LSA Building.

**Diploma Application**

All students must file diploma applications early in the term during which they expect to meet the degree requirements. Students are advised to file a diploma application for the fall or winter term by the fourth week after classes begin, or by the first week of class for the spring or summer half term. If you fail to complete all requirements during the term in which you file the diploma application, the application will be held for the subsequent term only. If you again fail to complete all requirements during the second term, you must file a new diploma application in order to be considered again for the degree. Diploma applications are available from and should be returned to the Office of Student Services.

Note: Students in the Physical Education program should verify diploma application procedures with the auditor of degrees in the Office of Student Services and with the Office of Academic Services in the School of Education.
Undergraduate Admission, Registration, and General Information

Admission

Students interested in applying to Kinesiology should contact the U-M Office of Undergraduate Admissions at 734-764-7433 or via the internet at www.umich.edu. This office handles all first-year and transfer undergraduate admissions, including applications for non-degree status, readmission, special student status, and cross-campus transfers at the undergraduate level, as well as general information regarding University admissions policies and procedures.

Enrollment in all programs is limited. Transfer students should inquire about program space before applying.

Admission Criteria

Kinesiology usually admits students in their first and second years of college study. First-year applicants who plan to major in Movement Science or Physical Education should include in their high school preparation one year each of biology, physics, and chemistry; although these are not mandatory requirements for admission, they will prove helpful to the incoming student. Students planning to major in Sports Management and Communication should emphasize writing, economics, communications and mathematics. Requirements for admission to Athletic Training are outlined in that section.

Kinesiology admits students from other U-M schools and colleges (cross-campus transfers) or other colleges and universities (transfers) on a selective basis. The major factors considered in reviewing applications are the quality of previous academic work and the field of special interest.

Application Procedures

The following materials are necessary for application:
1. The appropriate application for admission (cross-campus transfer, transfer, or first-year student).
2. A nonrefundable application fee in the form of a credit card, check or money order payable to the University of Michigan; $40 for applicants with domestic addresses; $55 for applicants with foreign addresses.
3. Official transcripts of previous academic work. Transfer students must submit transcripts from each college or university attended, as well as a high school transcript. First-year students should submit a high school transcript.
4. Results of the American College Test (ACT) or the SAT. Since test scores are just one of many criteria used by the Office of Admissions to determine an applicant’s prospects for academic success, a minimum test score is not required for admission. Transfer students are usually not required to submit test scores.

The application, transcripts, and ACT or SAT scores should be submitted to the U-M Director of Admissions, 1220 Student Activities Building, Ann Arbor, MI 48109-1316.
Application Deadlines

Application deadlines depend on the term for which admission is sought. The University of Michigan’s academic year consists of a fall, a winter, and a spring-summer term. The spring-summer term is divided into a spring half term and a summer half term. New students are admitted to Kinesiology in the fall and winter terms. Students who wish a cross-campus transfer may apply for any term. They should apply at least six weeks before the start of early registration for the term in which they wish to enroll. Specific term starting and registration dates are provided in the University Time Schedule published each term.

First-year students should submit the application and all supporting materials for fall term by February 1 and for winter term by November 1. Students transferring from another institution should apply for fall term by March 15 and for winter term by November 1.

Enrollment Deposit

Admitted students must submit a nonrefundable $200 enrollment deposit which will be applied to first-term expenses. The Office of Admissions will provide instructions and deadlines for payment of this deposit.

Admissions Counselors and Resources

Counselors are available in the Kinesiology Office of Student Services and in the Office of Admissions to discuss academic interests and career goals with prospective students, particularly those redirecting their educational goals or returning to school after an educational interruption. Call or write in advance for an appointment.

Transfer Credit

Students transferring from another institution should use the information available in this Bulletin and from the Office of Admissions to carefully plan their academic programs. For specific information about transfer credit for courses outside of Kinesiology, contact the Office of Credit Evaluations in the Admissions Office. For further information about transfer credit for Kinesiology courses, consult the Kinesiology Office of Student Services. The University of Michigan is on a semester hour system; when transferring credit, check with both your home institution and the University of Michigan to make sure credits are accepted on an equivalent basis.

Students may transfer a maximum of 70 credit hours from another four-year institution. The maximum number of hours accepted from a two-year college is 60, but no two-year college work may be counted for credit once a student has attained junior standing (equal to 54 credit hours) in Kinesiology. Normally, the maximum number of credit hours taken during a regular college year which may be transferred from an accredited institution is 31. Under special circumstances additional hours may be accepted on the recommendation of the dean of the school previously attended and with the approval of the U-M Admissions Office. For a half term, the maximum number of hours which may be transferred equals the number of weeks in the term.

Students preparing to teach in the secondary schools may transfer a maximum of nine hours of education courses. Credit will not be given for coursework in directed teaching taken at another institution. Both directed teaching and methods courses must be taken in residence.

Appropriate transfer credits earned at accredited institutions will be accepted by Kinesiology provided that a grade of “C” (2.000) or higher has been earned in the course(s) to be transferred. Grades and grade point averages do not transfer from institutions outside the University of Michigan, and do not appear on the Kinesiology transcript. Students admitted with advanced standing will receive a copy of their credit evaluation to aid them in program planning and course selection.

Not Candidate for a Degree (NCFD)

Students who wish to take courses but do not wish to earn a degree at the University of Michigan may apply for special student status. All applicants for special student status must have a definite purpose in attending the University of Michigan. Applications are available from the Office of Admissions and should be returned to that office.

Readmission

If you were previously enrolled in Kinesiology but have not registered for more than one calendar year, you must apply for readmission to the University through the Office of Admissions. Generally, readmission is granted to those students who left in good standing. Students who were not in good standing at the time they left the University should contact the Kinesiology Office of Student Services before applying for readmission to the University.
If you have taken courses at another institution during your absence, a transcript must be submitted prior to readmission. All readmitted students must submit a nonrefundable $200 enrollment deposit.

**Orientation**
The Office of New Student Programs in the Student Activities Building provides information about U-M Orientation, during which new students meet with an academic advisor, select courses, register, and become acquainted with the University. Orientation is mandatory for all newly admitted students.

**Registration**
The University of Michigan’s computer registration process, CRISP (Computer Registration Involving Student Participation), enables students to register for, drop, add or modify courses via telephone. The CRISP system stores information about courses,
each student’s course elections after he/she has registered, and wait-lists for some courses.

Through Wolverine Access, students can check on availability of classes, see grades, order unofficial transcripts and conduct other student business. The Web address is waccess.umich.edu.

**Registration Procedures**

Registration for classes occurs in April for spring, summer, and fall courses, and in November for winter term courses. After these early registration periods, students can register at any time up until the deadlines issued by CRISP and published each term in the Time Schedule.

Materials for registration are available in Kinesiology’s Office of Student Services. Students must consult with an advisor before registering, and are strongly advised to register early to avoid scheduling problems. The Office of Student Services and the University Registrar’s Office are available to assist with questions regarding registration deadlines.

**Tuition and Fees**

The University’s current fee schedule is published in the Time Schedule. Students should be aware that there are penalties for late registration, course changes and disenrollment. Late charges and disenrollment fees increase at various points of the term. Consult the current Time Schedule or the Registrar’s Office for information about deadlines and fees. The effective date of refund is the date the withdrawal notice is received in the Registrar’s Office. Any refund due the student will be mailed to his or her address on record. Registration fees are nonrefundable.

Fee assessments are made by the Office of the Registrar; students should contact that office for further information. Fees are also listed in the University Time Schedule published each term.

Tuition is higher for nonresidents of Michigan than it is for residents, and higher for upper division students (those with at least 55 credit hours) than it is for lower division students (those with fewer than 55 credit hours). See the University Residence Regulations in this section to determine your residence status. For further information contact the Office of Student Certification, 1514 LSA Building.

**Financial Aid**

Undergraduates are eligible for one or more of three types of financial aid: 1) scholarships and grants, 2) loans, and 3) Work-Study employment. The Office of Financial Aid in the Student Activities Building administers most financial aid programs for which undergraduates are eligible. The majority of programs are based on demonstrated financial need. Contact this office for information about the financial aid application process and program information.

Among the programs available to students and administered through the Office of Financial Aid are:

- Perkins Loan (formerly National Direct Student Loan)
- Federal Direct Stafford Loan (formerly Guaranteed Student Loan)
- Michigan Competitive Scholarship
- Pell Grant (formerly Basic Educational Opportunity Grant)
- Work-Study Employment

New students should apply for financial aid by March 1 (for the fall term) in order to receive equal consideration. Students who plan to enter in another term should apply at least eight weeks before the start of that term. Continuing students (including cross-campus transfers) must apply by the deadlines announced by the Office of Financial Aid. It is necessary to reapply for aid each year.

Other scholarships, grants, and short-term loans are available through the Office of Financial Aid. All students may apply for emergency and/or short term loans from this office for educational or education-related expenses. In addition, this office assists students with budgeting, and helps students locate other financial resources. Students are encouraged to use the Office of Financial Aid counseling services even if they are not receiving direct financial assistance.

In addition to programs available through the Office of Financial Aid, many students find temporary or part-time employment on or near the campus. The Student Employment Office, in the Student Activities Building provides job listings and referral information for students seeking employment. Other sources of jobs are University Employment Services (for both temporary and permanent jobs), in the Wolverine Tower, 3003 S. State St., and Medical Center Human Resources Department (for University Hospital employment), 300 North Ingalls Bldg. Local newspapers, such as the Ann Arbor News, also list employment opportunities.
University Residence Regulations

1. Since normally a student comes to the University of Michigan for the primary or sole purpose of attending the University rather than to establish a domicile in Michigan, one who enrolls in the University as a non-resident shall continue to be so classified throughout his attendance as a student, unless and until he demonstrates that his previous domicile has been abandoned and a Michigan domicile established.

2. No student shall be eligible for reclassification as a resident unless he shall be domiciled in Michigan and has resided in Michigan continuously for not less than one year immediately preceding the first day of classes of the term for which reclassification is sought.

3. For purposes of these regulations, a resident student is defined as a student domiciled in the state of Michigan. A non-resident student is defined as one whose domicile is elsewhere. A student shall not be considered domiciled in Michigan unless he is in continuous physical residence in this state and intends to make Michigan his permanent home, not only while in attendance at the University but indefinitely thereafter as well, and has no domicile or intends to be domiciled elsewhere.

4. The following facts and circumstances, although not necessarily conclusive, have probative value in support of a claim for residence classification:
   a. Continuous presence in Michigan during periods when not enrolled as a student.
   b. Reliance upon Michigan sources for financial support.
   c. Domicile in Michigan of family, guardian, or other relatives or persons legally responsible for the student.
   d. Former domicile in the state and maintenance of significant connections therein while absent.
   e. Ownership of a home in Michigan.
   f. Admission to a licensed practicing profession in Michigan.
   g. Long-term military commitments in Michigan.
   h. Commitments to further education in Michigan indicating an intent to stay here permanently.
   i. Acceptance of an offer of permanent employment in Michigan.
   Other factors indicating an intent to make Michigan the student’s domicile will be considered by the University in classifying a student.

5. The following circumstances, standing alone, shall not constitute sufficient evidence of domicile to effect classification of a student as a resident under these regulations:
   a. Voting or registration for voting.
   b. Employment in any position normally filled by a student.
   c. The lease of living quarters.
   d. A statement of intention to acquire a domicile in Michigan.
   e. Domicile in Michigan of student’s spouse.
   f. Automobile registration.
   g. Other public records, e.g., birth and marriage records.

6. An alien who has been lawfully admitted for permanent residence in the United States shall not, by reason of that status alone, be disqualified from classification as a resident, provided, however, that aliens who are present in the United States on a temporary or student visa shall not be eligible for classification as a resident.

7. These regulations shall be administered by the Office of the Registrar, in accordance with the following residence review procedures:
   a. It shall be the responsibility of the student to register under the proper residence classification, to advise the Office of the Registrar of possible changes in residence and to furnish all requested information pertinent thereto.
   b. Applications for reclassification shall be filed not later than 20 calendar days following the first day of classes of the term for which such reclassification is sought. Such application shall be filed with the Assistant Registrar for Residence Status (see “f” below for address) and shall set forth in writing a complete state of the facts upon which it is based, together with affidavits or other supporting documentary evidence. Failure to timely file such an application shall constitute a waiver of all claims to reclassification or rebates for such terms.
   c. Any student may appeal the decision of the Assistant Registrar for Residence Status made pursuant to paragraph “b,” above, by taking the following steps within 20 calendar days after notice of such decision was served upon him, either in person, by mail, or by posting in a conspicuous place at 500 South State Street:
      i. File with the Residency Appeal Committee a written notice of appeal stating the reasons therefore.
      ii. File said notice with the Assistant Registrar for Student Certification and Residence Status, together with a written request that all documents submitted pursuant to paragraph “b,” above, be forwarded to the Residency Appeal Committee. Failure to timely comply with this paragraph “c” shall constitute a waiver of all claims to reclassification or rebates for the applicable term or terms.
   d. Reclassification, whether pursuant to paragraph “b” or “c” above, shall be effective for the term in which the application therefore was timely filed in accordance with paragraph “b” and for each term thereafter so long as the circumstances upon which the reclassification was based shall remain unchanged. Appropriate refunds shall be made or accounts credited within a reasonable time following such reclassification.
   e. Classification or reclassification based upon materially erroneous, false, or misleading statements or omissions by or in support of the applicant shall be set aside retroactively upon the discovery of the erroneous nature of such statements.
   f. Inquiries should be addressed to: Residence Status Office, Office of the Registrar, 1514 LSA Building, University of Michigan, Ann Arbor, MI 48109-1382, phone (734) 764-1400.

**Please note: The one year continuous presence requirement may not apply to individuals who can clearly demonstrate that they did not come to the state for either their own or a family member’s educational pursuits. These individuals must file a residency application for an official determination of their status.
This section of the Bulletin is intended to help graduate students make informed choices about applying to Kinesiology and satisfactorily completing a graduate degree in Kinesiology. Students should be sure to consult a faculty advisor in addition to reading this section. Kinesiology and/or the U-M Rackham School of Graduate Studies may modify programs, policies, or procedures in the future. Students usually will be governed during their degree program by the requirements and regulations in effect when they were admitted.

Students may refer questions to the Graduate Program Secretary in Kinesiology or Rackham Graduate School. To supplement the information in this Bulletin, contact Rackham Graduate School, Room 118, University of Michigan, Ann Arbor, 48109-1070 (734) 764-4402 for the following publications:

- Rackham Graduate School Bulletin Vol. I (Student Handbook)
- Rackham Graduate School Bulletin Vol. II (Program Information and Course Offerings)
- Information for Graduate Students
History of the Graduate Program in Kinesiology

The graduate curriculum in Physical Education was introduced in 1931 with three sequences-administration, supervision and teaching. A sequence in School Health Education was added in 1932 and a fifth sequence, leading to a Master of Arts in Education, was added in 1936. The graduate program was supported by the combined faculties of the men’s and women’s Physical Education departments, headed respectively by Professors Elmer Mitchell and Margaret Bell. Physical Education was at that time located within the School of Education.

The emphasis broadened from teacher training and administration to include health education, tests and measurements, and recreation, and in 1938 the doctoral degree was established. By 1970, the scope of physical education had expanded to include more scientific aspects of the study of human movement with an increasing emphasis on exercise physiology. Graduate degrees were offered in administration, tests and measurements, curriculum and instruction, recreation, exercise physiology, biomechanics, and the newly emerging field of motor learning. Over time, the Department of Physical Education made internal changes to reflect the integrated nature of exercise physiology, biomechanics, and motor learning.

Since 1976, the graduate program has emphasized both theoretical and applied issues at the Master’s and Ph.D. levels. Faculty productivity in research grants and scholarly writing has increased, and strong ties have developed between faculty in Kinesiology and colleagues in the Medical School, School of Public Health, Business School, the College of Engineering and the College of Literature, Science, and the Arts.

Kinesiology separated from the School of Education in 1984, and is now an independently-governed academic unit offering both an M.S. and an M.A. at the Master’s level and a Ph.D. at the doctoral level.

The Master’s Degree

Kinesiology offers two types of graduate programs at the Master’s Degree level: the Master of Science (M.S.)/Master of Arts (M.A.) degrees and the Certificate of Graduate Study (C.G.S.).

Each program is intended for students with exemplary academic and professional credentials seeking advanced academic training in areas related to human movement.

The Master of Science and Master of Arts Degrees require 30 credits of course work or 24 credits of courses and a thesis. Students choose one of three options:

- Comprehensive track, allowing for flexible in-depth study of human movement.
- Ph.D. preparation. Intended for students who plan to continue toward a doctoral degree. This track requires a thesis.
- Specialist track. Currently the two specialist tracks are Facility Management and Worksite Wellness. Both require additional course work that also qualifies the student for the Certificate of Graduate Study.

The Certificate of Graduate Study requires 19 credits of course work. This option is usually taken in combination with the Master’s Degree Specialist track, but may also be pursued by itself to enhance professional skills.

Admission to the Program

Kinesiology welcomes applications from students of all academic programs and disciplines. Admission decisions are made by the Kinesiology Graduate Committee throughout the year; however, early applications are encouraged.

In general, application materials include:

- scores on the General Aptitude Tests of the Graduate Record Examination (GRE)
- official transcripts of earlier academic work
- three letters of recommendation
- statement of purpose indicating goals, previous experience, and choice of tracks within the program.

Time Limit

It is strongly encouraged that students complete their degree within two years after enrollment. Students must complete their Master’s degree work within six consecutive years after their first enrollment in the Rackham Graduate School.

If a student exceeds this limit s/he must petition the Dean of the Graduate School through the Kinesiology Office of Student Services for a time extension, giving reasons for the request and plans for the continuation of the degree.
Masters Degree

Sample Program Content I
(An undergraduate Psychology major who wants to learn more about human movement and is undecided about a specific career.)
- KIN 610. Current Issues in Kinesiology (3)
- KIN 615. Philosophy of Science and Research in Kinesiology (3)
- KIN 502. Telecommunications in Sport, Health and Fitness (3)
- BIOSTAT 503. Introductory Biostatistics (3) or STAT 402 Statistics and Data Analysis (4)
- AIA 471. Accounting Principles (3)
- KIN 682. Independent Reading in Kinesiology (2)
- HNUT 652. Food Intake (3)
- KIN 518. Topical Seminar (3)
- KIN 520. Graduate Seminar in Motor Control (3)
- KIN 686. Internship in Kinesiology (1-6)

Sample Program Content II
(An undergraduate Kinesiology major who wants more in-depth study in human movement with emphasis in business management.)
- KIN 610. Current Issues in Kinesiology (3)
- KIN 615. Philosophy of Science and Research in Kinesiology (3)
- BIOSTAT 503. Introductory Biostatistics (3)
- One more Biostatistics course (BIOSTAT 523/602/617/651/652) (3)
- KIN 551. Sport and Fitness Consumer Research (3)
- KIN 513. Legal Aspects of Facility Management (3)
- KIN 682. Independent Reading in Kinesiology (3)
- KIN 540. Graduate Seminar in Exercise Physiology (3)
- KIN 502. Telecommunications in Sport, Health and Fitness (3)
- MKT 502. Marketing Management (1)
- KIN 686. Internship in Kinesiology (1-6)

Sample Program Content III
(A graduate student planning to continue doctoral studies in Exercise Physiology)
- KIN 610. Current Issues in Kinesiology (3)
- KIN 615. Philosophy of Science and Research in Kinesiology (3)
- KIN 640. Advanced Exercise Physiology (3)
- KIN 682. Independent Reading in Kinesiology (2)
- KIN 672. Research Internship (2)
- PHY 502. Human Physiology (4)
- BIOSTA 503. Biostatistics (3)
- PHY 511. Systems and Integrative Physiology (3)
- HNUT 652. Food Intake (3)
+ Master’s Thesis

Master’s Checklist
See the Master’s degree checklist in the Rackham Bulletin, Vol. I (Student Handbook) to double-check the completion of all the requirements for a Master’s degree.

Final Degree Check
Students should complete forms for the Master’s degree (available in the Office of Student Services) within the first two weeks of the final term of registration. A check is then made to determine if all requirements have been met and a minimum of 5.000 G.P.A. (B) on a 9-point scale has been maintained.

Students who complete a majority of graduate credits in science-based work within Kinesiology and a majority of credits in scientific coursework outside Kinesiology will receive the Master of Science (M.S.) degree. Those who take a majority of their program in social science-based work within Kinesiology or who fulfill the cognate requirement in courses which are not related specifically to the content core will receive the Master of Arts (M.A.) degree.

Comprehensive Track
In this track students study human movement in depth from different perspectives. The strength of this program is its flexibility; working with their advisors, students can design a program to meet their particular interests. Students also complete a 3-credit laboratory rotation, a 3-credit field experience, or both. Should a student in this track become interested in the Ph.D. or specialist tracks, it is possible to transfer if space is available.

Enrollment
There are no enrollment limits in this track.

Degree Requirements
Students must complete a minimum of 30 credit hours for the M.S. or M.A. degree. Students are required to take KIN 610 (Current Issues in Human Movement), KIN 615. (Philosophy of Science in Kinesiology Research) and one research statistics course. In addition to KIN 610 and 615, students must elect at least 9 hours of Kinesiology coursework. Five of these may be for independent research (e.g. KIN 684), practicum experience or internships (e.g. KIN680 and 686. Each student must also complete at least 10 credits in cognate work outside of Kinesiology. (Note: The statistics course, when taken outside of Kinesiology, counts toward these 10 credits.)
**Ph.D. Preparation Track**

Students in this track work closely with a professor in a laboratory or field setting. They participate with mentors in research, generate ideas, collect data, and write a thesis or research paper prior to graduation. The minimum number of credit hours to complete this track is 30. The exact number will vary according to student interests and advisor’s requirements.

**Faculty Advisors**

Any academic faculty member in Kinesiology may advise in this track.

**Student Enrollment**

The number of students admitted to this track is determined by the number of faculty who are available to advise Ph.D. preparation students.

**Master’s Thesis**

A student with a B+ average for the first 12 credit hours of graduate work will be permitted to proceed with writing a Master’s thesis. In addition to a thesis advisor, the student may have a second faculty member serve on his/her committee. Students considering writing a thesis are strongly encouraged to discuss possible topics with potential thesis advisors as soon as possible after entering the program.

A student who plans to write a thesis should consult in advance with the Office of Student Services, which will inform the student of the regulations regarding thesis deadlines, distribution, and number of copies.

**Specialist Tracks**

Currently, Kinesiology supports two specialist tracks, Facility Management and Corporate Worksite Wellness. Master’s students in these tracks may obtain either an M.S. degree or an M.S. degree with a Certificate of Graduate Study (M.S. + C.G.S.) Persons who already hold a Master’s degree and want specific post-graduate professional training may wish to consider the C.G.S.-only option. Students who are currently enrolled in the Kinesiology Master’s program and are in good standing may also apply for admission to the C.G.S. program. Three or more faculty oversee each of the specialty tracks, with input from other interested faculty in Kinesiology or other University Departments.

**Sample M.S. + C.G.S. Program**

- KIN 610. Current Issues in Kinesiology (3)
- KIN 615. Philosophy of Science and Research in Kinesiology (3)
- KIN 513. Legal Aspects of Facility Management (3)
- KIN 551. Sport and Fitness Consumer Research (3)
- KIN 502. Telecommunications in Sport, Health and Fitness (3)
- CIS 552. Information Systems and Data Processing (3)
- AIA 471. Accounting Principles (3)
- AIA 552. Management Accounting (1)
- CEE 431. Construction Contracting (3)
- CEE 589. Risk and Benefit Analysis (3)
- FIN 300. Financial Management (3)
- BIOSTAT 503. Introductory Biostatistics (3)
- KIN 682. Independent Reading in Kinesiology (2)
- KIN 686. Internship (1-6)
- LHT 522/523. Managerial Writing (3)
- MKT 502. Marketing Management (1)
- URP 502. Microcomputers in Planning (3)

**Sample C.G.S.-Only Program**

- KIN 513. Legal Aspects of Facility Management (required) (3)
- KIN 518. Facility Planning and Management (3)
- KIN 502. Telecommunications in Sport, Health and Fitness (3)*
- KIN 551. Sport and Fitness Consumer Research (3)*
- KIN 686. Internship in Kinesiology (required) (4)
- CIS 552. Information Systems and Data Processing (required) (4)
- CEE 431. Construction Contracting (3)

*One of these courses must be taken*
Facility Management Specialist Track

The Facility Management Specialist Track provides academic and professional experiences in management, marketing and communications for students pursuing careers in sport, recreation, and club facility management.

Enrollment

A maximum of 10 students per year are admitted to this track.

Requirements/Certification

The M.S. + C.G.S. option requires a minimum of 49 credit hours (30 for M.S., 19 for C.G.S.) of content-specific course work including field experience and internship. The C.G.S.- only option requires 19 credit hours. This option also includes entrance and exit interviews, and mandatory weekly group meetings.

Worksite Wellness Specialist Track

Students interested in managing on-site corporate wellness programs that include such areas as stress management, low back care, business aspects of wellness, health care costs and health risks, physiological testing and screening, and exercise leadership should elect this track. This option provides core experiences and learning in three specific knowledge areas: kinesiology and wellness; management and marketing; and research and evaluation.

This track is designed to provide courses and experiences for students interested in pursuing professional careers in corporate fitness, wellness, and health promotion.

Enrollment

A maximum of six graduate students per year will be admitted to this option.

Requirements/Certification

The M.S. + C.G.S. option requires a minimum of 49 credit hours of content specific course work. An internship or field experience are required.

The C.G.S.- only option requires 19 credit hours. C.G.S. students are required to complete at least one course from each knowledge area. M.S. students are required to complete at least two courses from each knowledge area. Prior to graduation, students are also required to complete a portfolio illustrating the importance of course selection and their graduate experience.

Sample M.S. + C.G.S. Program

KIN 610. Current Issues in Kinesiology (3)
KIN 615. Philosophy of Science and Research in Kinesiology (required) (3)
BIOSTAT 503. Introductory Biostatistics (3)
KIN 572. Fitness Evaluation and Programs (3)
BIOSTAT 504. Computer Packages (4)
KIN 471. Physical Activity, Health and Disease (3)
KIN 540. Graduate Seminar in Exercise Physiology (3)
KIN 542. Exercise and Nutrition (3)
KIN 682. Independent Reading in Kinesiology (2)
KIN 574. Worksite Wellness (3)
KIN 551. Sport and Fitness Consumer Research (3)
KIN 686. Internship in Kinesiology (1-6)
HNUT 601. Diet, Disease and Health (3)
KIN 513. Legal Aspects of Facility Management (3)
MKT 502. Marketing Management (1)
HNUT 652. Food Intake (3)
HBHE 601. Health Behavior and Promotion (3)

Sample C.G.S. Program

KIN 572. Fitness Evaluation and Programs (3)
KIN 574. Worksite Wellness (3)
KIN 551. Sport and Fitness Consumer Research (3)
KIN 686. Internship in Kinesiology (1-6)
MKT 502. Marketing Management (1)
HBHE 601. Health Behavior and Promotion (3)
The doctoral program leads to the highest degree awarded by Kinesiology and the University, and provides for the study of movement at an advanced level. The program emphasizes general scholarly and teaching competence and research activities, and culminates in a doctoral dissertation. The program is intended for those who intend to make their careers as scholars, teachers, researchers and professionals in Kinesiology or allied fields.

Ph.D. students choose from a set of core courses in Kinesiology, as well as cognate courses from other units, and complete a minimum of 30 credits beyond the Master’s level. Two qualifying examinations must be passed before advancing to candidacy, after which the student completes an original doctoral dissertation. All Ph.D. students work closely with a faculty advisor from the beginning of their degree program. Working with the student and advisor, a Guidance Committee, General and Area Qualifying Examination Committee, and a Dissertation Committee provide advice and evaluate progress at successive stages of the program.

Admission to the Program

An applicant to the Ph.D program must have a Master’s degree before being admitted. If the Master’s degree is in a specialization other than Kinesiology or a closely related field, the student may be asked to complete certain prerequisite coursework in Kinesiology. Any such coursework would be determined at the time of admission, taking into account the applicant’s background and interests. Prerequisite coursework does not count towards the Ph.D. degree.
B. An applicant must have at least a 6.000 (B plus) average in previous graduate work. The relevance of previous graduate work to Kinesiology should be clearly indicated in the application.

C. An applicant must submit GRE scores. An aggregate score of 1200 on verbal and quantitative sections of the GRE is expected, as is a three-section total of at least 1800, although these will not be treated as absolute minimums if other accomplishments are outstanding.

D. Applicants whose native language is not English must provide TOEFL scores. A reasonable working knowledge of written and spoken English is a minimum requirement for entry for all students.

E. The application must include a minimum of three letters of recommendation must be received. These should be from professionals who know the applicant and his/her academic background well.

F. Prior to admission, a Kinesiology faculty member must agree to serve as the student’s primary advisor. In rare cases, a faculty member will not meet criteria as a primary Ph.D. advisor. In such a case another qualified faculty member may act as co-advisor. The advisor(s) and the student must agree to the advising arrangement before admission can be granted. Please note that an advising arrangement does not imply a commitment for financial support of a student. In some cases partial (or even full) support may be available, but it is not guaranteed.

G. The applicant must submit a statement of purpose, outlining his/her academic and professional background, as well as specific interests and goals for the Ph.D. program. This statement should be complete and thorough as it provides information that is central to the admission decision.

H. It is advisable for Ph.D. applicants to visit the campus and meet prospective advisors and current students in the program. Initial contact may be with the prospective advisor, or the Office of Student Services. Please allow at least two weeks notice to set up such a visit.

I. Admissions decisions are made on a periodic basis throughout the year by the faculty, on the basis of all the application materials, and an interview with the applicant, if at all possible. Early applications are strongly encouraged, as the number of places are limited. In addition, various campus-wide fellowships are decided early in the year. Applicants for Fall term admission should apply by February 1 in order to be eligible for such fellowships.

Requirements for the Ph.D. Degree

Requirements include Kinesiology and cognate coursework, supervised teaching internship, research rotations, the general and area qualifying examinations, and a dissertation. The program of study for the initial period of coursework is determined in consultation with the adviser, and must be approved by the student’s Guidance Committee.

Guidance Committee
During the first semester, each doctoral student will, in consultation with his/her Ph.D. advisor, convene a Guidance Committee consisting of a minimum of three faculty members, at least two of whom must be from Kinesiology (primary advisor plus one other Kinesiology faculty member). During the first semester, the student and advisor should plan the students program of study, covering coursework and possible research rotations. The student will circulate this document to the other Guidance Committee members. The Committee will then meet with the student, and evaluate the proposed program of study taking into account program requirements, the student’s interests and background, any special opportunities that may be available. Once approved and revised if necessary, the program of study document will be placed in the student’s file and circulated to the Committee members.

Coursework
The following are minimum coursework requirements for the Ph.D. degree in Kinesiology. Please note that additional courses may be required by the Guidance Committee and advisor, depending on each student’s goals and background.

- KIN 615/715 - Philosophy of Science and Research in Kinesiology (3 credits)
- An advanced research methods course or experience, taken in the student’s specialty area; option decided on in consultation with advisor
- At least two advanced statistics courses

1 Doctoral students would register for the 615 course under 715, and would complete an additional doctoral component to the class.
At least two courses in the student’s intellectual interest area; these would be selected in consultation with his/her advisor. It is assumed that courses offered by one’s primary advisor would be a necessary part of each student’s coursework.

Participation in a monthly, not-for-credit, seminar for doctoral students is also required.

Research Rotations
Students must participate in, and complete two research rotations prior to taking the General Qualifying Examination. Neither rotation may be taken with the student’s major advisor (although it is assumed that each doctoral student is active in ongoing research with his/her advisor). One (but not both) of the research rotations may be taken outside of Kinesiology. Each will receive 3 credits (KIN 684 or 990, or comparable courses in other units) and will be graded as satisfactory or unsatisfactory.

The purpose of the rotation is to broaden and deepen the student’s research experience by significant involvement in research activities other than those of the advisor. For students new to research the rotation may be their first exposure to a research project. For more experienced students, it may be a project culminating in a presentation or publication. Research rotations may complement the students interests (for example, learning a relevant research technique) or may provide contrast (for example, pursuing a different topic or studying a primary interest from a different disciplinary point of view).

The choice of research rotations should be made in consultation with the advisor. Each rotation should represent a significant effort, typically of five to seven hours per week for 10-14 weeks, or the equivalent. Each rotation will receive 3 credits, and will be graded as satisfactory or unsatisfactory. Options are KIN 684 (Independent Research in Kinesiology), or, if the rotation is expected to relate closely to the student’s dissertation, KIN 990 (Dissertation, pre-candidacy). If the rotation is undertaken outside Kinesiology, students may register for comparable course credit in the applicable department with the faculty member who is primarily supervising the work.

Supervised Teaching Internship
A principal goal of doctoral training is the achievement of competence as an independent scholar. This entails not only proficiency in research but in the dissemination of knowledge as well. The capacity to teach undergraduate and graduate students effectively and in a variety of settings must therefore be demonstrated by each doctoral student in Kinesiology. If a doctoral student cannot provide alternative evidence of proficiency in teaching at the college level in Kinesiology, or a closely allied
field, he or she must satisfactorily complete the supervised teaching internships (KIN 681).

The internship matches each student with an instructor in an appropriate Kinesiology course. The instructor will guide the student and assess his/her potential for teaching by various means. Assignment to a course is made in consultation with the advisor and the instructor, and must be approved by the Associate Director for Curriculum and Instruction. It is anticipated that a subset of Kinesiology faculty will develop and conduct a set of special teaching seminars to provide teaching methods training for doctoral students.

Typically, the internship would involve the following:

1) Acquiring knowledge of general teaching skills that apply across the field of Kinesiology (e.g., different teaching formats, learning styles, preparation of audiovisual materials and use of audiovisual equipment, knowledge of assessment, evaluation and grading methods). The format will depend on the experience and background of the student as evaluated by the instructor, but attendance at workshops, especially those offered by the Center for Research on Learning and Teaching (CRLT), appropriate reading, and observation of specific instructors may be required.

2) Acquiring knowledge of contemporary concepts and issues for the particular course in which the internship is served, as well as specific resources and teaching methods for that course. This may include collating and evaluating resources available for the subject matter taught in the course (textbooks, lab manuals, videotapes, etc.), and obtaining and evaluating course outlines or syllabi for similar courses taught at leading institutions.

3) The preparation of, and satisfactory completion of several teaching assignments.

While some of these goals may involve assisting the instructor in some aspects of the course, the internship is specifically intended to promote and evaluate teaching proficiency. The student will not have responsibility for the course nor be assigned duties equivalent to those of a Graduate Student Teaching Assistant.

Doctoral students employed by Kinesiology in an instructional capacity may, however, use demonstrated competence in that role to satisfy the teaching proficiency requirement, on the recommendation of the student’s advisor and with the approval of the Associate Director for Curriculum and Instruction. Similarly, doctoral students may have the internship requirement waived if they can provide other evidence of teaching proficiency such as superior student and peer evaluations of their teaching at the college level. Such an exemption would be made at the recommendation of the advisor and with the approval of the Associate Director for Curriculum and Instruction. In the event an exception is granted, the student will be expected to substitute alternative coursework.

E. Qualifying Examinations

There are two components to the qualifying examination. Both parts will be completed within the same examination period. It is recommended that the exams be completed at the end of the student’s second year, but no later than the end of the third year after commencing doctoral work.

1) The purpose of the first section, the General Examination, is to evaluate basic scholarly competence in Kinesiology, as the field is broadly defined here at Michigan. The general exam tests, among other competencies, scientific reasoning, writing, research design skills, knowledge of statistical concepts, and, especially, an ability to integrate knowledge from relatively diverse areas of the discipline. Thus the first exam covers general Kinesiological issues rather than specific issues in the student’s specialization.

This is a written examination. Questions are provided by a standing General Qualifying Examination Committee. Students prepare for the examination by choosing three knowledge modules. Currently there are seven knowledge modules that are identified. These consist of three Exercise science modules (exercise physiology, motor control, biomechanics), two modules representing Psychological aspects of physical activity (sport psychology, health psychology), and two modules representing Business aspects of physical activity (sport management, sport marketing). Standard reading lists, prepared by doctoral faculty, will be available for each module. These lists will provide (1) the most important works in that particular area (e.g., articles recognized as classics in a field, important and influential review articles and texts), and (2) a list of key concepts that represent a baseline level of knowledge for doctoral students, and (3) a set of sample integrative questions that might be
asked in this examination. These standardized lists will be periodically updated, and, for each exam, may be supplemented by individual students, their advisors, or members of the General Examination Committee.

The committee is chaired by a member of the Graduate Committee and has two other members, at least one of whom is from Kinesiology. Membership is determined by the Graduate Committee, and changes every two years. Committee members will read those General Exams written by doctoral students during their two-year period of service. A student’s advisor may evaluate his/her General Exam if the advisor happens to be serving on the committee at the time the student completes the Exam.

2) The purpose of the second portion, the Area Examination, is to evaluate the student’s ability to select a research topic within Kinesiology, evaluate relevant literature, identify a specific problem or issue that is original and significant, formulate hypotheses relevant to that problem or issue, propose appropriate methods for the testing of those hypotheses, and respond satisfactorily to questions about the topic, relevant literature and proposed methods. The examination format is a one hour (minimum) public seminar given by the student, followed by a closed oral examination administered by an Area Qualifying Examination Committee. The committee is chaired by any member of the Graduate Committee and has three other members, two from within Kinesiology, and one from outside of Kinesiology. A committee should be chosen in consultation with each student’s advisor. The topic of the seminar may subsequently become the topic of the student’s dissertation, but this is not essential.

Satisfactory completion of these examinations (and of coursework) qualifies a student to advancement to candidacy. Students may retake the examinations once, and must pass the exams by the second attempt to continue in the doctoral program.

F. Candidacy and Dissertation

When a student has advanced to candidacy, he or she will make a formal dissertation proposal, to be approved by the Dissertation Committee, which consists of four faculty members, at least two of whom are from Kinesiology and at least one is a cognate member. The student’s advisor serves as the Chair of the Dissertation Committee, and the composition of the committee must be approved by the Rackham School of Graduate Studies. The doctoral dissertation must be original research of high quality that makes a significant contribution to the body of knowledge within Kinesiology. The proposal takes the form of a scholarly document outlining the problem, its background and significance, summarizing relevant literature, and outlining the proposed research methods. It should include a tentative timetable, and outline any necessary resources (space, equipment, etc.) required. Research proposals that use animal or human subjects must receive approval from the appropriate Institutional Review Board.

Once the proposal has been approved, the dissertation advisor will supervise the conduct and progress of the student’s dissertation work. The student is responsible for apprising the Committee of progress and any modifications. If necessary, the Committee can be reconvened, for example, to approve substantial changes to the original proposal.

The dissertation may be either a traditional dissertation document or a compilation of thematically linked published or publication-ready manuscripts. The Rackham School of Graduate Studies publishes guidelines concerning these alternative formats. Once the dissertation document meets with committee approval, an oral defense takes place. At the time of the defense, the dissertation must be of publication-quality (as judged by the dissertation advisor and committee. The first portion of the defense is a public lecture, after which the Dissertation Committee meets with the candidate. The time and place of the public presentation must be announced with adequate time (e.g., at least a week) so that Kinesiology faculty and graduate students might attend if interested. Once satisfied with the work, the dissertation committee recommends to the Rackham School of Graduate Studies that the Ph.D. degree be conferred.

Ph.D. Application

Rackham has a set of specified procedures that govern the application process. These are detailed in Volume 1 of the Graduate School publication.
Students beginning the program for a Master’s or Ph.D. degree in Kinesiology should enter in the fall or winter terms. They enroll in the Horace H. Rackham School of Graduate Studies (usually referred to simply as the Graduate School) where the field of specialization for Kinesiology is code number 7041.

Graduate admission application forms and the University of Michigan bulletin entitled Information for Graduate Students are mailed to prospective students with Kinesiology’s supplementary admissions materials. You may also contact the Graduate School at (734) 764-8129 or via the internet at www.umich.edu.

The application fee is $55.

Please note that on the Graduate School application, the description of personal and academic goals is especially important. Take time to write a thorough description of your objectives and why you believe the University of Michigan would be an appropriate place to accomplish them.

Kinesiology requires:

1. three letters of recommendation, one or more from persons who can attest to your academic accomplishments;
2. Graduate Record Examination (GRE) scores;
3. two copies of the official transcript of all previous undergraduate and graduate coursework from all colleges and universities attended (including the University of Michigan and U-M extension graduate study center coursework). GRE scores, letters of recommendation, and transcripts should be sent separately to:
   - Kinesiology Graduate Program Secretary
   - 401 Washtenaw Ave.
   - Ann Arbor, MI 48109-2214

**Application Deadlines**

Master’s and Ph.D. admission decisions are made on a rolling basis throughout the year. Early applications are strongly encouraged, however, as the number of places is limited. Also, various campus-wide fellowships are decided early in the
year. Applicants who wish to be eligible for these should apply by February 1 for fall term admission.

**Graduate Record Examination**

GRE scores are required for both Master’s and Ph.D. applicants. It takes at least six weeks after the test date to process scores, so be sure you take them well in advance of Kinesiology’s decision dates. Have the scores sent to the Kinesiology graduate secretary.

**Types of Admission**

Regular applicants who satisfy all the admission requirements of the Rackham Graduate School and Kinesiology are granted regular admission.

**Conditional**

Applicants deficient in some of the admission requirements of the Rackham Graduate School or Kinesiology who nevertheless show promise of being able to satisfy these requirements, may be granted tentative admission for a limited period to make up these deficiencies. Any credits earned under tentative admission are considered graduate credits toward a degree only after the student has achieved regular admission status.

a. Graduates of a nonaccredited institution may be granted tentative admission on the condition that they complete one term of 12 credit hours of additional qualifying work at the University of Michigan before completing the normal degree requirements.

b. Graduates of foreign or American institutions whose previous preparation cannot be adequately evaluated and graduates who received any part of their qualifying education more than seven years before their application to the Rackham Graduate School may be granted tentative admission. Such applicants are permitted one term of study before regular admission and may be required to complete additional qualifying work beyond the normal degree requirements. A second term of study may be approved for these applicants by the Director of the Office of Student Services.

c. Undergraduate students in their final year of work toward a Bachelor’s degree may be granted tentative admission on the basis of academic credentials to date and pending the receipt of official transcripts indicating satisfactory completion of all coursework and receipt of the Bachelor's degree.

d. Undergraduate students at the University of Michigan may be granted tentative admission to the Rackham Graduate School if they are within six credit hours of graduation at the beginning of a full term or are within four credit hours of graduation at the beginning of a half term.

**Not a Candidate for Degree (NCFD)**

NCFD admission may be granted to qualified students who do not wish to pursue a degree but do wish to elect courses for graduate credit. NCFD applicants must submit the standard application form to the Rackham Graduate School. Subsequent consideration for admission to a degree program is contingent upon full review of credentials in competition with other degree applicants. If an NCFD student achieves regular admission to a Rackham degree program, some courses already taken may, under certain circumstances, be counted toward a graduate degree. If an NCFD student eventually wishes to complete a Rackham degree program, registration as an NCFD student for more than one term is not advisable since inappropriate coursework will not count toward a graduate degree. Contact the Office of Student Services for further details.

**Guest Status**

Guest status is also available through the Rackham Graduate School for one spring half or summer half term. Procedure for admission requires proof that one has a Bachelor’s degree; it does not require the usual application fee. This process is handled at the Rackham Graduate School Admissions Office.

**Visiting Scholar**

Admission as a visiting scholar is granted to qualified individuals who wish to study and conduct research at the University without earning academic credit. Visiting scholar status may be granted to persons who have earned the Doctor of Philosophy degree or its equivalent or who hold the rank of associate professor or higher at an accredited university. Special admission forms and further information are available from Rackham Graduate School.

**Probationary Admission**

Applicants to the Master’s program who are slightly deficient with respect to Kinesiology’s academic standards may be admitted on probation. Probationary admittance requires the maintenance of a 5.0 (B) average during the first eight credit hours of graduate work at Michigan.
Deferred Admission

The Graduate Program admission committee may grant deferred admission for the year following the one originally requested by the applicant. These decisions are made under carefully presented conditions and are few in number. No additional forms or fees are required.

Notification of Admission

Applicants for the Master’s degree are typically informed of the action on their applications within one month if their application fee and transcripts accompanied the application form. Review of applications for the doctoral degree takes longer. Students are notified by mail. Students planning to enroll at the Ann Arbor campus must submit a nonrefundable $100 enrollment deposit to the Cashier’s Office and a report of a physical examination to the University Health Service. Forms for these purposes are mailed to admitted students by the Rackham Graduate School. An admission certificate is sent to the student after the enrollment deposit is received. The enrollment deposit is applied to the student’s fees for the term to which he/she has been admitted. No enrollment deposit is required of students admitted for the spring/summer terms, special students, or students in U-M extension graduate study centers.

Admission is granted for a specific term and year. If the student does not enroll that term, admission is cancelled, and the application and supporting materials are placed in inactive status. Failure to enroll for that term results in forfeit of the $100 enrollment deposit. Upon written request an application may be reconsidered for the following two full terms. After one full year a new application and fee must be submitted.

Readmission

Students in the Rackham Graduate School who have not been enrolled for one full year must apply for readmission through the Rackham Admissions Office. Acceptance depends upon program approval and upon availability of space and facilities for the term in which readmission is desired.

Registration

Graduate students obtain registration materials in the Kinesiology Office of Student Services after meeting with their advisors. Master’s students consult an advisor in the Office of Student Services; Ph.D. students are assigned a faculty advisor according to their area of research. Students must consult their advisor for approval of course elections. NCFD students are not assigned an advisor but must have course elections approved by the Director of the Office of Student Services.

All Rackham graduate students who have not been enrolled or who have been on detached study for 12 consecutive months must apply for readmission one month prior to the term in which they wish to register. Registration is conducted via a telephone process, and must be completed during specific registration days. Late registrants pay an additional fee. Registration information is available from the Office of Student Services and is published in the University Time Schedule.
**Registration for Independent Study Courses**

All campus and off-campus students pursuing graduate work who use University facilities such as offices, libraries, laboratories, or computers, or who consult their advisors concerning their theses or dissertations must be registered. Such students may register for KIN. 682 (Readings), KIN. 684 (Research), or KIN. 686 (Internship); or, in the case of doctoral students, for Kinesiology 990 (pre-candidates for the dissertation) or KIN. 995 (dissertation candidates). Prior to registration the student and instructor agree on the amount and type of work to be done and the number of credit hours to be granted. The student then registers for the course using the instructor’s designated section number.

**Tuition**

The fees and charges of the University are determined by the Board of Regents and are subject to change without notice by the Regents. For further information see the Graduate School publication, Information for Graduate Students, which also gives estimates of an average student’s living expenses at the University of Michigan.

**Kinesiology Financial Assistance**

The Kinesiology graduate admissions committee awards small scholarships to a limited number of entering M.S. students. There is no application procedure; students are considered for scholarship support when they apply to the graduate program. Small amounts of emergency financial aid are available through the Office of Student Services. Research assistantships are available occasionally, and are typically supported by grant funds awarded to individual faculty. Thus, application for these limited resources (which typically go to advanced Master’s and Ph.D. students) are made directly to individual faculty members.

Other forms of financial assistance for graduate students in Kinesiology include: student loans and Work-Study employment, research assistantships, and fellowship awards. Students should begin to investigate financial aid possibilities in the fall term for the following academic year. Many financial aid programs have application deadlines. Since Kinesiology is able to provide only a few grants (which need not be repaid), students should apply for all types of aid for which they are eligible. Students will not lose grant funds when they indicate they will accept a loan or work-study position. However, distribution of need-based grants may be reconsidered should a student be awarded a merit-based grant. Contact the Kinesiology Office of Student Services or the U-M Office of Financial Aid for further information.

**Office of Financial Aid**

The Office of Financial Aid administers loan and Work-Study programs on the University of Michigan Ann Arbor campus. Graduate students may apply through this office for a Federal Direct Stafford Loan (FDSL), Perkins Loan, and Work-Study employment. Awards for FDSL, Perkins, and Work-Study programs are made on the basis of demonstrated financial need. Students must enroll at least half time to receive GSL funds, and full time to receive a Perkins Loan and Work-Study. However, since determination of full-time and part-time status differs among graduate and undergraduate programs, students should verify their eligibility status with the Office of Financial Aid. The procedures for applying for financial aid are outlined in the Rackham Admissions Brochure, or contact the Office of Financial Aid.
**Academic Appeals**

The appeals procedures of the Rackham Graduate School provide informal and formal address of grievances for Rackham students. The student and the subject of the grievance must meet certain eligibility criteria; for details concerning the criteria and the process of appeal, check the Academic Grievances Procedures section in the Rackham Bulletin, Vol. I (Student Handbook).

**Academic Discipline**

These types of academic dishonesty are subject to academic discipline: cheating, plagiarism, knowingly furnishing false information to the University, or forging, altering, or misusing University documents or academic credentials. Nonacademic misconduct subject to discipline include harassment, unprofessional conduct, and misuse of University property. Violations of conduct may result in dismissal from the graduate program. Policies are administered by the Office of Student Services. The Rackham Graduate School guidelines for academic behavior are provided in their publication Academic Integrity; Policies and Procedures.

**Transfer Credit**

Undergraduate level courses may not be counted toward the graduate degree. However, if a 400-level course in any department on campus is approved by Rackham for graduate credit, it may be elected for credit toward the Master’s degree. Courses numbered in the 400s that are required in order to meet the graduate program prerequisites may not count toward the Master’s degree. Be aware that such 400 level courses do count in the graduate student’s overall G.P.A.

In order to recognize graduate credit earned in other accredited higher education institutions and in other units of this University, the Rackham Graduate School provides, upon specific request, for the transfer of a limited amount of graduate credit to Master’s degrees sought here. Credit may be transferred only if the coursework is applicable to the student’s Master’s or Ph.D. program.

Rackham Graduate School differentiates two kinds of Transfer Credit: Inter-University and Intra-University Credit. Rackham accepts credits earned at the University of Michigan for up to half of a student’s program (however, be sure to check with Kinesiology to see if these credits are acceptable). Rackham accepts up to a maximum of six credits earned at institutions other than the University of Michigan. For further details of the University’s Transfer Credit policy, see the Rackham Bulletin, Vol. I (Student Handbook).

**Grading Policies**

Graduate students are graded by the letter grade system (A, B, C, D, E), except for specially designated courses. Grades of + and - may be given whenever such evaluation is possible. Grade point average (G.P.A.) is computed by translating letter grades into honor points for each hour of credit in a course.

\[
\begin{align*}
A+ &= 9 & C+ &= 3 \\
A &= 8 & C &= 2 \\
A- &= 7 & C- &= 1 \\
B+ &= 6 & D &= 0 \\
B &= 5 & E &= 0 \\
B- &= 4 & \end{align*}
\]

The total number of honor points divided by the total number of credit hours of the courses is the student’s G.P.A. An average of B, or 5.0, is required to remain in good standing. Grades of D or E cannot satisfy any degree requirement of Rackham Graduate School. Students whose G.P.A. falls below a B in a given term are placed on probation the following term or denied permission to register. Students whose G.P.A. falls below a B for two successive terms may, with permission of their program chairperson, be granted a final term during which the G.P.A. must be brought up to a B. Students whose G.P.A. falls below a B for three successive terms are required to withdraw from the University.

For further information, see the Rackham Bulletin, Vol. I (Student Handbook).
About Ann Arbor

Ann Arbor is a unique community offering the cultural experiences one might expect from a large metropolitan city along with the accessibility of a small college town. The picturesque campus blends historic and modern buildings, theaters, museums and concert halls. There are numerous bookstores, coffee shops, and boutiques, an extensive library system and numerous computing centers. Major national and European orchestras and soloists regularly perform here, and frequent talks by visiting scholars and writers enhance the University’s stimulating intellectual environment. You’ll find lots to do here in every season—football games and pep rallies in the fall, music and theatrical events throughout the winter and spring, and the nationally-renowned Art Fair each summer. Few cities its size match what Ann Arbor has to offer.

Recreational opportunities also abound in Ann Arbor. The Huron River is a natural focus of recreational activity throughout Washtenaw County. The extensive city and county park system offers opportunities for canoeing, sailing, cross-country skiing, ice skating, swimming, baseball, hiking, and jogging. The Arboretum adjoining the central campus provides a wonderful setting for a stroll, with rich displays of foliage in the fall and flowers in the spring.

In addition to these natural resources, students and their families have access to University facilities for individual and group activities. The U-M offers one of the largest intramural sports program in the nation. Students can choose among dozens of campus sports clubs which offer instruction, competition, and an opportunity to share interests, from skydiving and windsurfing to square dancing and water polo. Those who enjoy spectator sports may select from Big Ten competition in Ann Arbor, or travel to nearby Detroit to watch professional baseball, basketball, football, soccer, and hockey.

University Resources

The following listings describe a few of the most frequently-used University resources and services. A comprehensive list of resources is distributed to new students during Orientation. Questions about the University community may also be directed to the Kinesiology Office of Student Services, 734-764-4472.
Office of Undergraduate Admissions
1220 Student Activities Office, 764-7433
The Admissions Office processes, reviews, and makes decisions about over 24,000 applications to the University each year. The office also handles undergraduate applications for non-degree status, auditors and cross-campus transfers including those from U-M-Dearborn and U-M Flint.

Career Planning and Placement
3200 Student Activities Building, 764-7460
Career Planning and Placement assists students and alumni in making career decisions and conducting effective job searches. It offers an extensive library of graduate school listings and employer information as well as current job postings. CP&P’s free services also include seminars, workshops, individual and group counseling, on-campus recruiting, internship information, pre-professional advising, and computer-accessed listings of job openings and on-campus interviews.

Cashier’s Office
1015 LSA Building, 764-8230
This office, located in the lobby of the LSA Building, is the central cash receipt and disbursement office of the University. The office handles payments to student accounts, loan repayments and disbursements, financial hold credit payments, late penalty fees, lab and term fees, late registration fees, and enrollment deposits, as well as other financial transactions. A full security 24-hour depository is located on the front wall of the office for all payments and departmental deposits.

Center for the Education of Women (CEW)
330 E. Liberty, 998-7080; 998-7210
The Center is open to everyone who is considering education and career decisions. Individual counseling, informal counseling groups, support groups, conferences, and a Women in Science program are among the services, as is a series of monthly forums on adult development. The CEW Evening Program of credit classes is designed especially for students with daytime commitments to jobs and/or families. CEW offers some scholarships and educational emergency grant money. Services are free of charge.

Counseling and Psychological Services
3100 Michigan Union, 764-8312
This office provides students with short-term counseling that will enable them to overcome a variety of personal and interpersonal difficulties that interfere with their academic and career objectives. The office is staffed by doctoral level professionals, senior counselors, a psychiatrist and interns from the graduate programs in Clinical Psychology and Social Work.

Office of Financial Aid
2100 Student Activities Building, 763-6600
This office administers financial aid programs, including grants, loans and Work-Study; helps locate financial resources and assists with budgeting. Students are encouraged to use the counseling services even if they are not receiving direct financial assistance.

University Health Service
207 Fletcher, General Information 764-8320
Emergencies: 763-4511
University Health Service (UHS) offers comprehensive primary health care to students, faculty and staff including a general medical clinic; an emergency clinic; an infirmary; and specialty clinics including allergy, dermatology, gynecology and contraception, immunization, eye care, ear-nose-throat, nutrition, ophthalmology, orthopedics, rheumatology, and physical therapy. It offers anonymous HIV Antibody testing. The Health Service also has its own x-ray department, laboratory, and pharmacy. Most services provided at UHS that are not covered by a student’s private health insurance are covered by the Health Service fee.

University Housing Office
1011 Student Activities Building, 763-3164
The Housing Office provides information on traditional and specialized residence halls including women’s or coeducational facilities, single rooms, doubles, triples, apartments, cooperatives and family housing. This office can also provide information on how to become a residence advisor, peer advisor or minority peer advisor. Juniors and seniors usually hold these positions. Most residence halls offer meal service.

Human Resources
4005 Wolverine Tower, 763-0235
The Human Resources Office aims to ensure that protected groups (racial and ethnic minorities, women, individuals with disabilities, Vietnam-era veterans, older people and lesbians and gay men) have equal opportunity and receive the support they need to be effective and successful as students, faculty and staff members. Services include pre-grievance counseling, training and educational programs.

Information Technology Division
General Information: 764-4636
The Information Technology Division oversees student access to computers, with several dozen across campus. Some sites are specially equipped for students with disabilities. ITD also offers on-site consulting to schools and departments, and recovery of information on hard disks and floppy disks, for a fee. Through its various units, ITD provides electronic mail and computer conferencing services, phone and walk-in counseling, educational discounts on computer hardware and software purchases, a computer service center, and hundreds of computer-related workshops, all free to students. Its hotline, 764-HELP, offers advice on computing-related problems.

International Center
South Wing, Michigan Union, 764-9310
The International Center serves a dual function. For non-U.S. citizens, it provides information and orientation on immigration, cultural adjustment and other matters of concern to international students. It also provides information for overseas study, travel, work abroad and summer internships as well as interna-
ational careers, to all U-M students. Eurail passes and ID cards can be purchased here. The Center also hosts international social events which are open to the entire university community.

**Office of Lesbian, Gay, Bisexual, Transgender Affairs**
3200 Michigan Union, 763-4186
Staff in this office provide direct assistance to students on matters related to sexual orientation. The office offers professional counseling and referral, educational and consciousness-raising programs and intervention in civil rights grievances.

**Shapiro Undergraduate Library**
919 S. University, 764-7490
The undergraduate and science libraries contain a large collection of books, periodicals, and other materials. There are course reserve books, reference services to help students with research, as well as a large collection of recordings, cassettes, and videotapes. There are special study rooms for the blind and visually impaired. Instruction in library use, computerized bibliographic data base searches, and other specialized services and facilities are also available.

**Harlan Hatcher Graduate Library**
920 N. University, 763-3257
The Graduate Library, the largest unit in the University Library System, offers many different types of materials (books, periodicals, microforms, documents, maps, etc.) and is primarily a research collection. The library’s computer catalogue, MIRLYN, can be accessed through in-library terminals or remotely through the campus network. The stacks are open for browsing, and study carrels, copying machines, and microform readers are available, as well as specially-equipped study carrels for handicapped students.

In addition to the main undergraduate and graduate libraries, the U-M Library system includes the Gerald R. Ford Presidential Library, the Bentley Historical Library and libraries within the individual schools and colleges.

**Multi-Ethnic Student Affairs**
2204 Michigan Union, 763-9044
This office advises minority students and organizations, offering personalized attention to help plan events and activities. The office is comprised of four programming coordinators representing the interests of Black Hispanic, Native American, and Asian American students. They also provide information on developing, funding, and publicizing cross-cultural programs.

**Office of the Ombudsperson**
3000 Michigan Union, 763-3545
The Office of the Ombudsperson helps graduate and undergraduate students solve problems encountered when dealing with this complex university. Its staff hears and investigates student complaints, helps to achieve equitable settlements for students through existing channels of redress, and provides information about University processes. All discussions with the Ombudsperson are confidential.

**Office of New Student Programs**
3511 Student Activities Building, 764-6413
This office is open year-round to provide information and descriptive materials to new and prospective students. The orientation program includes campus tours, academic counseling, placement testing and credit evaluations for transfer students. It oversees a faculty/student mentorship program and also conducts an annual orientation for graduate students.

**Office of the Registrar**
1524 LSA Building, 764-6280
This office handles a variety of functions including address changes. Staff at this office also direct students to other Registrar functions, such as fee assessments, issuing of diplomas and certificates, and questions about social security. The recorders for all schools except Medicine, Law, and Dentistry are in the Registrar’s Office. A division of the office, the Office of Residence Status (1514 LSA building), handles residency applications. Nonresident students who want to apply for Michigan residence status should begin here.

**Services for Students With Disabilities**
G625 Haven Hall, 763-3000
This office is concerned with issues of reasonable accommodation for students on campus with permanent or temporary disabilities. A disability is any condition which significantly limits a student’s ability to pursue important daily activities; examples include diabetes, asthma, dyslexia, and depression, as well as difficulties in sight, hearing or mobility. Special audio-visual equipment, readers, and a braille campus map are available for blind students. A campus accessibility map, lift-equipped transportation, and special registration procedures are available for physically and otherwise health-impaired students. The office assists with awareness presentations, limited scholarships and small equipment loans.

**Student Legal Services**
2304 Michigan Union, 763-9920
Student Legal Services has a professional staff of full-time attorneys assisted by law students and undergraduate volunteers. The staff provides legal advice and assistance to currently-enrolled students in all areas of the law, which includes family and domestic relations, housing, criminal, employment discrimination, consumer, and wills. Professional staff are available on an appointment basis. Students may call the office for an appointment; (legal advice is not given over the phone).

**Students Offering Support (SOS) and 76-GUIDE**
Staffed by specially-trained student counselors, SOS and GUIDE phone lines offer confidential, personal peer counseling, including crisis intervention and/or referral information.

**University Center for the Child and the Family**
1007 E. Huron, 764-9466
The Center provides counseling services and support groups for children, adolescents, families and couples on a sliding scale basis. The staff consists of professional clinical psychologists and graduate students in clinical psychology.
Course offerings are subject to change. For the most current listings, access www.umich.edu/~divkines on the internet.

Prerequisites are listed in italics preceding the course description.

**Movement Science Courses (MVS)**

MVS 110. Biological and Psychological Bases of Human Movement (3). An introduction to exercise physiology, biomechanics and motor control. Students gain an appreciation of the study of human movement from a scientific perspective. The course includes lectures, discussions and natural laboratory experiences. FALL/WINTER TERMS.

MVS 241. Exercise, Nutrition and Weight Control (3). Study of body mass regulation including the understanding of food, digestion, metabolism and different intervention strategies such as diet and exercise. Students learn assessment and prescription principles and techniques. WINTER TERM ONLY.

MVS 300. Human Anatomy (4). MVS 110
This is a functional anatomy course for students interested in movement science. All organ systems of the human body are covered. Special emphasis is placed on systems involved in coordinating, supporting, and performing movement. FALL TERM ONLY.

MVS 305. New courses in development (1-3).
The current course description, if applicable, is available from the program chair. TO BE ARRANGED.

Introduces students to the neural and behavioral basis of motor control. It covers nervous system structures involved in planning, executing and learning movements, as well as the principles of motor control that apply to locomotion, reaching and grasping, eye movements and more complex skills. FALL/WINTER TERMS.

Applies fundamental biomechanical principles to the human musculoskeletal system. Topics include musculoskeletal mechanics, tissue biomechanics, and quantitative analysis of human movement. FALL/WINTER TERMS.

MVS 340. Exercise Physiology (4). MVS 110, Math 105, MVS 250, Anatomy 401 or MVS 300, Physiology 101. PE majors: see advisor.
Physiological principles of exercise. Topics include: bioenergetics, energy expenditure, functions of the cardiovascular, pulmonary, neuromuscular and neuroendocrine systems, muscle, renal function, training, environmental influences, ergogenic aids, nutrition, weight control, and body composition. FALL/WINTER TERMS.

MVS 380. Problems in Movement Science (1-2).
Students work with a faculty member to study the application of knowledge and principles from the Movement Sciences to specific "real-life" problems such as those found in the workplace, health care and rehabilitation, or physical performance in recreation, music and the arts. FALL/WINTER TERMS.

MVS 382. Honors Reading in Movement Science (1-2).
Upper division standing with minimum overall GPA of 3.00; permission of instructor. Directed readings on topics in Movement Science under the guidance of faculty. FALL/WINTER TERMS.

MVS 384. Honors Research in Movement Science (1-2).
Upper division standing with minimum overall GPA of 3.00; permission of instructor. Research experience under guidance of faculty. FALL/WINTER TERMS.

MVS 386. Internship (1-4).
Upper division standing; permission of instructor. Field experiences in activities related to the academic discipline of Movement Science. Experiences are typically outside of the facilities of the Department of Movement Science. S/U grading only. FALL/WINTER TERMS.

MVS 402. Teaching Experience for MVS Students (1-3). Permission of instructor; junior/senior status; minimum B+ in related MVS core courses recommended. Undergraduate students participating in this course are responsible for (1) aiding regularly assigned teaching faculty in a particular course; (2) providing tutorial help for undergraduate students enrolled in the course they are assisting in; (3) meeting regularly with discussion and/or laboratory sessions; (4) participating with teaching faculty in instructional activities. May be repeated once in a different area or with a different professor. Credits count as Kinesiology elective credit. FALL/WINTER/SPRING/SUMMER.

Includes practical and theoretical approaches to the acquisition and analysis of human movement data. Includes demonstration and laboratory-type instruction. Projects all students to demonstrate proficiency with instrument use and data interpretation to properly answer research questions. ONE TIME PER YEAR FALL OR WINTER.

Students draw upon core knowledge, scientific and coaching literature, and discussions with coaches to develop training and conditioning programs for different types of athletes based on scientific principles. FALL TERM ONLY.

An introduction to a variety of common disease conditions affecting cognitive and neural aspects of motor performance. Emphasis is placed on relating structure to function and the application of motor control principles in describing motor disturbances. ONE TIME PER YEAR FALL OR WINTER.

MVS 422/KIN 422. Motor Learning (3). MVS 320.
Covers theories including conventional information processing theories and connectionist (neural networks) models, theories of motor learning, the effects of different practice regimens, feedback, context and other effects of learning environments. Also considers the neural basis of motor learning and adaptation in humans. ONE TIME PER YEAR FALL OR WINTER.

MVS 429/KIN 429. Laboratory Rotation in Motor Control (1-3). MVS 320.
Students work in a professor’s laboratory to learn research methods and participate in the scientific process. May be taken twice. TO BE ARRANGED.

Explores biomechanical principles and techniques used to understand human movement. This course focuses on the biomechanics of muscle and tendon and examines the relationship between musculotendon structure and function during movement. The effect of acute and chronic changes in the force-producing capability of muscle is discussed. ONE TIME PER YEAR FALL OR WINTER.

Applies principles of biomechanics to the analyses of sport, training, and conditioning of athletes. Topics include analyses of projectile-related activities, aerodynamics in sport, balance related activities, throw and push patterns, and qualitative and quantitative analysis of sport activities. FALL/SPRING TERMS.

MVS 439/KIN 439. Laboratory Rotation in Biomechanics (1-3). MVS 330; permission of instructor.
Students work in a professor’s laboratory to learn research methods and participate in the scientific process. May be taken twice. TO BE ARRANGED.

Emphasizes an integrative view of exercise physiology that includes discussion of the neuroendocrine control mechanisms in homeostatic functions and in the adaptive responses of an organism to the challenge of exercise. WINTER TERM ONLY.

Review of the mechanisms of hormone release and hormone action; examination of the effects of different types of acute exercise (high resistance, intermittent, endurance), and of the adaptation to habitual exercise on release of endocrine paracrine, and autocrine humoral agents and the functional significance of such release. WINTER TERM ONLY.

MVS 449/KIN 449. Laboratory Rotation in Exercise Physiology (1-3). MVS 340.
Students work in a professor’s laboratory to learn research methods and participate in the scientific process. May be taken twice. TO BE ARRANGED.
MVS 471/KIN 471. Physical Activity, Health and Disease (3). MVS 340. Students examine current social trends and policies related to the role exercise plays in maintaining health and wellness. Covers cardiovascular disease, lower back pain, obesity and weight control, muscular strength and endurance, mental health and stress, aging, longevity and quality of life. ONCE EVERY SECOND YEAR.

MVS 488. Independent Study (1-2). Junior standing, permission of instructor. Students work with an individual professor on a mutually agreed-upon project that may include readings, research or other academic experience. TO BE ARRANGED.

MVS 490. Senior Honors (2). Senior standing, permission of instructor. Students work with a professor to prepare an original research paper that includes a proposal, data collection and written article. TO BE ARRANGED.

MVS 500/KIN 500. (1-3). Permission of instructor. It is intended to teach students the theory, validation, administration and interpretation of physical fitness, motor, cognitive and affective skill and behavior tests in physical education and adult physical fitness/activity programs. WINTER TERM ONLY.

MVS 520/KIN 520. Graduate Seminar in Motor Control (3). Seniors with outstanding academic record may be admitted; MVS 320; permission of instructor. Focuses on current issues in movement control from either a neurophysiological or behavioral viewpoint. Students will present assigned readings and will write a paper on an approved topic. ONCE EVERY SECOND YEAR.

MVS 521/KIN 521. Visuomotor Coordination (3). MVS 320. Covers the basic principles involved in coordination of the ocular and motor systems during visually-guided motor tasks. Topics include the generation and control of different types of eye movements, role of the afferent feedback during visuomotor tracking and the mechanisms involved in visuomotor coordination. ONCE EVERY SECOND YEAR.

MVS 530/KIN 530. Graduate Seminar in Biomechanics (3). Seniors with outstanding academic record may be admitted; MVS 330; permission of instructor. Focuses on current theoretical and practical issues in the biomechanics of movement. Students will present assigned readings and will write a paper on an approved topic. ONCE EVERY SECOND YEAR.

MVS 532/KIN 532. Human Musculoskeletal Dynamics (3). MVS 330. The dynamical human musculoskeletal system is studied to understand the forces and torques acting on the body during movement. The role of muscle force in controlling movement is emphasized. Methods used to study dynamics are discussed and assessed. ONCE EVERY SECOND YEAR.

MVS 540/KIN 540. Graduate Seminar in Exercise Physiology (3). Seniors with an outstanding academic record may be admitted. MVS 320; MVS 340; permission of instructor. Focuses on contemporary topics related to causes and consequences of movement from a physiological perspective. Students will present assigned readings and will write a paper on an approved topic. ONCE EVERY SECOND YEAR.

MVS 541/KIN 541. Experiments in Human Exercise Physiology (3). MVS 340. Students review classic studies in energy metabolism, body mass regulation, exercise training, respiratory and circulatory mechanisms in a seminar setting. ONCE EVERY SECOND YEAR.


MVS 572/KIN 572. Fitness Evaluation and Exercise Prescription (3). MVS 340. Study and practice of concepts and techniques for evaluating physical fitness. Topics include health and medical histories, liability concerns, blood pressure, graded exercise stress testing, ECG recording and basic interpretation, strength assessment, body composition analysis, pulmonary function tests, CHD risk-factor analysis and health risk appraisal. Lab results and case studies are used to practice writing exercise prescriptions following existing standards of practice. ONCE EVERY SECOND YEAR.

**Physical Education Courses (PE)**

**PE 141. Beginning Swimming (1).** Kinesiology majors and minors only. For students with limited or no previous aquatic experience. Emphasizes techniques to equip individuals with basic water safety skills and knowledge in order to make them reasonably safe in, on, or near the water. FALL, WINTER, SPRING, AND SUMMER TERMS.

**PE 142. Intermediate Swimming (1).** Pre-Swim Conditioning, Kinesiology majors and minors only. Emphasizes basic stroke improvement and endurance to help the student further learn the elements of good swimming. For students who can swim at least two lengths of the pool and are familiar with two strokes. FALL, WINTER, SPRING, AND SUMMER TERMS.

**PE 143. Lifeguard Training (1).** Follows the American Red Cross format for Lifeguard Training. Provides instruction for both self preservation and rescuing others. Students earn Red Cross certification upon successfully completing the course. Prerequisite: The ability to swim 20 consecutive lengths of the pool and to tread water five minutes. FALL/WINTER/SPRING TERMS.

**PE 144. Advanced Beginning Swimming (1).** PE 141. Increases aquatic ability of individuals who have already passed the beginner course by: increasing endurance, improving self-preservation skills and increasing confidence. Students perfect skills which require more coordination, including rhythmic breathing, front crawl, elementary backstroke and combinations of front and back stroke. FALL, WINTER, SPRING, AND SUMMER TERMS.

**PE 145. Introduction to Tae kwon do (1).** Fundamentals of martial arts (Korean style). Improves physical fitness, confidence, self-esteem, and the ability to defend yourself. FALL/WINTER TERMS.

**PE 252. Tests & Measurements in Physical Education (3).** It is intended to teach students the theory, validation, administration and interpretation of physical fitness, motor, cognitive and affective skill and behavior tests in physical education and adult physical fitness/activity programs. WINTER TERM ONLY.

**PE 256. Science of Diving (3).** This course presents the concepts, principles, and techniques of diving with self-contained underwater breathing apparatus (scuba). Primary lecture topics address physical, physiological, medical, psychological, technological, and operational aspects of scuba diving. Complementary lectures address selected advanced diving science and technology topics. Practical exercises include fundamental scuba diving and emergency skills, oxygen administration, and fitness evaluation. There will be one-hour lectures and one two-hour laboratory per week. Students will be evaluated through quizzes, examinations, and practical exercises. Course satisfies diving theory and confined water training for NAUI and PADI open water scuba diver certification. Student acceptance into this course is based on demonstrated ability to swim 400 meters, satisfactory completion of a diver’s medical examination (UMHS), and provide a mask and snorkel. FALL/WINTER TERMS.

**PE 310. Applied Human Anatomy and Physiology (5).** MVS 110. Designed to give the student a basic understanding of the structural and functional organization of the human body. Analyses the relationships of the human body at the biochemical, cellular, tissue, organ, and systems level, emphasizing the applications to physical education. FALL/WINTER TERMS.

**PE 313. Special Topics (1-3).** New courses in development can be introduced provisionally into the curriculum under this number. The current course description, if applicable, is available from the Department chair. TO BE ARRANGED.

**PE 316. First Aid and Safety Education (2).** First aid and safety education in relation to home, school, and community. Strongly emphasizes safety principles as applied to activities of the gymnasium, playground, and athletic field. FALL & WINTER TERMS.

**PE 326. Personal Training (3).** PE 310. Personal Training is designed to help students develop competence in the skills necessary for developing personal fitness programs for others and self. Emphasis will be placed on the essential components of fitness/activity, cardiovascular and muscle training and evaluation of home exercise equipment. Students will be required to design a personal exercise program for another student. Course is designed to prepare students to take personal training certification examinations. FALL TERM ONLY.

**PE 332. Principles of Motor Behavior (3).** PE 310. Principles of motor control, motor development and motor learning as they relate to the acquisition of fundamental locomotion and manipulative skills will be examined. Students will learn and apply motor behavior theories and concepts in a physical education setting. Teaching methods, skill assessment and testing, as well as interpretation of data needed in physical education curriculums, will be incorporated. WINTER TERM ONLY.

**PE 336. Children’s Rhythms (3).** This course includes basic concepts, teaching techniques and ideas for implementing key experiences in rhythmic movement to provide active learning for the elementary age child. Content includes activities that produce rhythmic coordination; that help a child use sequencing; that aid in aural and visual discrimination; that help a child with “basic timing,” and that aid in kinesthetic awareness. FALL/WINTER/SPRING TERMS.
PE 349. Water Safety Instructor/Life Guard Instructor (2). PE 143.
Emphasizes improving students’ personal aquatic skills and understanding the
mechanics involved in preparation for teaching persons of varying swimming
abilities. Also covers basic considerations in planning and administering the
instruction program and addressing problems and special programs. (An
American Red Cross Certification program). FALL/WINTER/SPRING TERMS.
PE 350. Selected Secondary Activities (3). Junior standing; permission of instructor.
This course will study basic progressions and teaching skills of soccer, track and
field, volleyball, basketball and other selected activities applicable to junior high,
middle school and senior high school levels of education. FALL TERM ONLY.
PE 353. Selected K-12 Activities and Mainstreaming (3).
Junior standing; permission of instructor.
Focuses on a variety of movement, fitness and sport activities with an emphasis
on mainstreaming techniques for the elementary and secondary levels of
education. Students will design various strategies and techniques for implementa-
tion. FALL TERM ONLY.
PE 354. Selected Elementary School Activities (3).
Junior standing; permission of instructor.
This course will introduce a variety of activities for utilization in Elementary
Physical Education settings. The focus will be on movement exploration,
educational gymnastics, fitness activities and a variety of games that can be
utilized in both indoor and outdoor settings. WINTER TERM ONLY/ SUMMER
BY PERMISSION OF INSTRUCTOR.
PE 360. Athletic Training (3). MVS 110, Anatomy 401, PE 310 Anatomy and
Physiology or equivalent.
Introduces clinical approaches to the prevention and treatment of injuries common
to active lifestyles, including acute and overuse injuries. This class is designed to
give a general overview of all aspects of athletic training. FALL/WINTER TERMS.
PE 370. Honors Reading (1-2).
Upper division student with minimum overall GPA of 3.00; permission of instructor.
Directed readings on Physical Education topics under the guidance of faculty.
TO BE ARRANGED.
PE 373. Issues in Health and Wellness (3).
This course presents the major health issues that teachers encounter in today’s
school system. The physiological, psychological, social, and economic aspects of
these issues will be discussed. WINTER TERM ONLY
PE 380. Honors Research (1-2).
Upper division student with minimum overall GPA of 3.00. Permission of instructor.
Basic and applied research experience in Physical Education under the guidance of
faculty. TO BE ARRANGED.
PE 390. Field Experience (1-8).
Junior standing and designated area of concentration; permission of instructor.
Provides an opportunity for supervised observation and participation in a
variety of school, university or business settings related to a student’s major
program of concentration. TO BE ARRANGED.
Drawing on the directed teaching experience, this seminar is designed to explore
the theories and practices of physical education as students apply them in their
directed teaching environments. FALL/WINTER TERMS.
PE 415/ED 415. Directed Teaching in Physical Education (6-12). PE 444, ED
307, ED 391, ED 392.
Designed to provide practical experience and to develop teaching competencies
under the joint supervision of University and K-12 school personnel. FALL/
WINTER TERMS.
PE 444/ED 444/KIN 444. Methods of Teaching of Physical Education K-12 (4).
Studies the specific foundation of teaching methods, content, organization, and
evaluation of physical education programs in schools. WINTER TERM ONLY.
PE 460. Therapeutic Modalities (3). PE 360.
Advanced principles and practice regarding dosage, time, and frequency of
therapeutic modalities utilized in the treatment of athletic injuries. Topics
include: cryotherapy, thermotherapy, electrotherapy, ultrasound, traction,
biofeedback, massage, intermittent compression. SEE FACULTY ADVISOR.
PE 461 Practicum in Athletic Training (1-4).
First Aid, CPR, permission of instructor.
An opportunity for concentrated study and clinical experience for student athletic
trainers. It will enable the students to work with a variety of certified athletic trainers
and varsity level athletic teams. The clinical instructors strive to make this an optimal
experience to both broaden the students’ educational background and better
prepare them to become a certified athletic trainer. FALL/WINTER TERMS.

The following courses are taught through the U-M Extension Service:

PE 570. Certification Program (4).
This two-year summer program promotes mastery of concepts and teaching
strategies in movement, fitness, and folk dance. SPRING TERM ONLY.
PE 571. Endorsed Trainer Program (4),
Designed as a third year for persons who have successfully completed the
Certification Program (PE 570) and who are involved in training adults.
SPRING TERM ONLY.
PE 573. Integrating Basic Movement and Music Concepts in the Preschool
and K-3 Curriculum (2).
Provides early childhood educators with strategies for incorporating basic
movement and music in existing curricula. SPRING TERM ONLY.
PE 575. Techniques for Teaching Movement and Folk Dance to All Ages (2).
An overview of movement, fitness, and folk dance concepts and teaching
strategies for persons who work with any population or age group. SPRING
TERM ONLY.
This 5-day course is signed for educators who would like to develop their own
personal skills in movement and music. SPRING TERM ONLY.

Sports Management & Communication Courses (SMC)

SMC 100. Freshman Seminar (2). Permission of instructor.
An academic skills development course designed to help students improve reading,
learning, library, and computer skills, so they may be better able to undertake the
demands of their undergraduate program. FALL/WINTER TERMS.
SMC 101. Public Speaking and Interpersonal Communication (3). Required of all Kinesiology undergraduate students. This course will explore the basic principles of persuasive speaking, focusing on content, organization, audience motivation, language and writing skills. FALL/WINTER TERMS.

SMC 103. Skill Development II (2). Permission of instructor. This non-graded course on fundamental reasoning skills in mathematics is open to all undergraduate students. Emphasizes mathematical knowledge and problem-solving skills that can be applied to any field of study. TO BE ARRANGED.

SMC 111. Historical and Sociological Bases of Human Movement (3). Required of all Kinesiology undergraduate students. Examines the evolution of physical education and sport as well as sociological concepts of human movement and sport in American society. FALL/WINTER TERMS.

SMC 202. Principles and Practices in Athletic Coaching (3). Students will study a variety of issues and responsibilities associated with athletic coaching in an educational setting using the Program for Athletic Coaches Education (PACE). Content areas include administrative planning and organization; social and interpersonal skills, motivation, role of the coach, conditioning, legal aspects and media relations. After completing PACE course requirements, student can become PACE-certified coaches. WINTER TERM ONLY.

SMC 203. Sport Business (3). Sophomore standing and permission of instructor. This course will introduce students to a variety of career options, human resources, management, finance and accounting practices in sporting enterprises. FALL/WINTER TERMS.

SMC 204. Writing for Media and Management (3). SMC 101 and English 124/125. It’s a look inside the sports business scene and shows you how it works. ONCE SUMMER TERMS.

SMC 205. Career Development (1). Students explore their values, skills, and preferred work styles; practice interviewing and job-search skills; prepare resumes and cover-letters, and examine many career resources, including the Internet. FALL/WINTER TERMS.

SMC 208. Community Recreation (2). The development of the modern recreational movement; principles and practices in recreational group work; organization and administration of community recreation programs, and community planning for recreation. Provides opportunities for securing experience in developing and conducting recreational programs for children and adults. COURSE PENDING.

SMC 226. Personal Exercise and Weight Training Programs (3). MVS 110, PE 310. Sophomore standing. This course is designed to provide the student with the information and skills needed to develop a strategy for healthful living for others and themselves throughout life with an emphasis on the role of physical fitness in the maintenance of wellness. WINTER TERM ONLY.

SMC 280. Research Opportunities (1-4). SMC 300. Sport Management (3). SMC 203 and Junior standing. An introduction to basic theories of management as they relate to sports management settings. Traditional administrative and leadership theories and research will be discussed in addition to more innovative modern approaches. FALL TERM ONLY.

SMC 301. Facility Planning (3). SMC 203 and Junior standing. Studies procedures in the planning and management of athletic, physical education, and recreational facilities. Emphasizes the planning process for indoor and outdoor facilities, including recreation parks and open spaces; planning for the handicapped; and trends in facility design. Guest speakers on related topics and visits to appropriate sites. FALL/WINTER TERMS.

SMC 302. Sports and the Media (3). SMC 203 and Junior standing. Examines the relationships that exist between the media and sports in America, including the roles newspapers, magazines, radio, and television have assumed as commercial enterprises in reporting sports. Also examines development, organization, objectives and performance of the media as well as the technology they use. Studies economic and legal issues as they pertain to the administration of sports programs. WINTER TERM ONLY.

SMC 303. Legal Aspects of Sports Administration (3). SMC 203 and Junior standing. Explores legal concepts and terminology, designed to heighten the student’s sensitivity to an administrator’s duties, obligations, and potential liabilities. Actual and hypothetical legal cases are discussed. WINTER TERM ONLY.

SMC 304. Sport Ethics (3). This course focuses on current ethical and social issues faced by career professionals in sport, including physical education teachers, coaches, community recreation directors, “front office” managers, communication specialists, and athletes. WINTER TERM ONLY.

SMC 305. Advertising and Promotion Strategy (3). SMC 203, SMC 306, and Junior standing. Designed for students who have been exposed to introductory marketing, this course offers a thorough introduction to the basic elements of the promotional mix, the strategic planning process for advertising, segmentation and positioning, media planning and publicity management. Students will be challenged to interpret these marketing concepts and to formulate creative applications to the sport and fitness marketing industry. FALL TERM ONLY.

SMC 306. Principles of Marketing (3). SMC 203 and Junior standing. Intended for students with no previous exposure to marketing, this course introduces basic marketing concepts, advertising, consumer behavior, strategic planning and the marketing of sport, fitness and health as a consumer service. FALL TERM ONLY.

SMC 307. Psychological Aspects of Sport and Exercise (3). Junior standing and permission of instructor. Examines the scientific evidence supporting the psychological determinants of sports performance and exercise adherence. Students interview clients and apply scientific principles to real-life situations. FALL TERM ONLY.

SMC 308. International Sport Policy (3). Introductory politics, policy management, and comparative political systems elective. The course is an examination of several transformations forces in the world today; the end of communism, the global economy, the electronic village, and their impact on SportsWorld. FALL TERM ONLY.

SMC 313. New courses in development (1-3). New courses in development are assigned this number. Current titles are listed in the Time Schedule. TO BE ARRANGED.

SMC 370. Honors Reading (1-2). Upper division with minimum overall GPA of 3.00; permission of instructor. Directed readings on topics in Sports Management and Communication under the guidance of faculty. TO BE ARRANGED.

SMC 380. Honors Research (1-2). Upper division with minimum overall GPA of 3.00; permission of instructor. Basic and applied research experiences in Sports Management and Communication under the guidance of faculty. TO BE ARRANGED.

SMC 390. Field Experience (1-8). Junior standing and designated area of concentration; permission of instructor. Provides an opportunity for supervised observation and participation in a variety of school, university or business settings related to a student’s major program of concentration. TO BE ARRANGED.

SMC 401. Sport Marketing (3). SMC 203, Senior standing and permission of instructor. An overview of how to conceptualize and market an event to participants, spectators and sponsors. Particular emphasis is placed on the design and pricing of sponsorship packages so they meet the needs of corporate markets. FALL/WINTER TERMS.

SMC 403. Internship in Sports Management and Communication (4). Internships must be approved by the internship coordinator in the Office of Student Services. The internship is designed to provide practical experience in the sports-related industries according to individual interests and goals for students completing the Sports Management and Communication program. FALL/WINTER/ SUMMER TERMS.

SMC 435. Sport and the Consumer (3). Senior or Graduate standing. Sports is a business like no other. There are six important consumer groups that make this business a success. These include: the participant, the spectator, the volunteer the advertiser, the sponsor, and the affinity consumer. These groups have power that makes sports the big business that it is. In this course, we will study the role each group plays and the forces impacting their equity to sports. It’s a look inside the sports business scene and shows you how it works. ONCE EVERY SECOND YEAR.
SMC 470. Independent Study (1-2). Upper Division standing; permission of instructor. Students work with an individual professor on a mutually agreed-upon project that may include readings, research or other academic experience. TO BE ARRANGED.

SMC 501/KIN 501. Facility Planning and Management (3). Examines the feasibility, methods, procedures and administration of sport facility, capital improvement projects as well as the operational, maintenance, event planning and hosting functions of facility management. FALL TERM ONLY.

SMC 502/KIN 502. Telecommunications in Sport, Health and Fitness (3). Introduces the student to two aspects of telecommunication within the fields of sport, health, and fitness: media production and media research. Students produce a short video piece on a topic related to their area of interest. During the development and production process, students are introduced to the concept and methods of formative research. FALL TERM ONLY.

SMC 513/KIN 513. Legal Aspects of Facility Management (3). Examines legal liabilities in management and operation of sport and recreation facilities; and introduces risk management application. WINTER TERM ONLY.

SMC 518/KIN 518. New courses in development can be introduced provisionally into the curriculum under this number. Current titles are listed in the Time Schedule. TO BE ARRANGED.

Kinesiology Graduate Courses (KIN)

KIN 411/MVS 411. Instrumentation and Measurement in Motor Control and Biomechanics (3). MVS 320, 330. Includes measurement and issues common to different pieces of equipment (relevant sampling theory, leasing, properties of amplifiers, etc.) Projects allow students to acquire and demonstrate proficiency with instrument use to properly answer research questions. ONE TIME PER YEAR FALL OR WINTER.

KIN 421/MVS 421. Disorders of Voluntary Movement (3). MVS 320. An introduction to a variety of common disease conditions affecting cognitive and neural aspects of motor performance. Emphasis is placed on relating structure to function and the application of motor control principles in describing motor disturbances. FALL TERM ONLY.

KIN 422/MVS 422. Motor Learning (3). MVS 320. Covers theories including conventional information progressing theories and connectionist (neural networks) models, theories of motor learning, the effects of different practice regimens, feedback, context and other effects of learning environments. Also considers the neural basis of motor learning and adaptation in humans. ONE TIME PER YEAR FALL OR WINTER.

KIN 429/MVS 429. Laboratory Rotation in Motor Control (1-3). MVS 320. Students work in a professor’s laboratory to learn research methods and participate in the scientific process. May be taken twice. TO BE ARRANGED.

KIN 431/MVS 431. Muscle Mechanics of Human Movement (3). MVS 330. Explores biomechanical principles and techniques used to understand human movement. This course focuses on the biomechanics of muscle and tendon and examines the relationship between muscle-tendon structure and function during movement. The effect of acute and chronic changes in the force-producing capability of muscle is discussed. ONE TIME PER YEAR FALL OR WINTER.

KIN 432/MVS 432. Biomechanics of Sport (3). MVS 330. Applies principles of biomechanics to the analysis of sport and training and conditioning of athletes. Topics include analysis of projectile-related activities, aerodynamics in sport, balance related activities and throw and push patterns. FALL/SPRING TERMS.

KIN 439/MVS 439. Laboratory Rotation in Biomechanics (1-3). MVS 330; permission of instructor. Students work in a professor’s laboratory to learn research methods and participate in the scientific process. May be taken twice. TO BE ARRANGED.

KIN 441/MVS 441. Exercise and Human Biology (3). Physiology 101, MVS 340. Emphasizes an integrative view of exercise physiology which includes discussion of the neuroendocrine control mechanisms in homeostatic functions and in the adapt-tive responses of an organism to the challenge of exercise. WINTER TERM ONLY.

KIN 442/MVS 442. Hormones and Exercise (3). MVS 340. Review of the mechanisms of hormone release and hormone action; examination of the effects of different types of acute exercise (high resistance, intermittent, endurance) and of the adaptation to habitual exercise on release of endocrine paracrine, and autocrine humoral agents and the functional significance of such release. WINTER TERM ONLY.

KIN 444/PE 444/ED 444. Methods of Teaching of Physical Education K-12 (4). Studies the specific foundation of teaching methods, content, organization, and evaluation of physical education programs in schools. WINTER TERM ONLY.
KIN 449/MVS 449. Laboratory Rotation in Exercise Physiology (1-3). MVS 340. Students work in a professor’s laboratory to learn research methods and participate in the scientific process. May be taken twice. TO BE ARRANGED.
KIN 461/PE 461. Practice in Athletic Training (1-4). First Aid, CPR, permission of instructor.
An opportunity for concentrated study and clinical experience for student athletic trainers. Typically there are four experience areas: rotation of facilities and sports, football, men’s sports and women’s sports. Uses a cooperative approach among athletic staff, medical staff and experienced student trainers. FALL/WINTER TERMS.
KIN 471/MVS 471. Physical Activity, Health and Disease (3). MVS 340. Students examine current social trends and policies related to the role exercise plays in maintaining health and wellness. Covers cardiovascular disease, lower back pain, obesity and weight control, muscular strength and endurance, mental health and stress, aging, longevity and quality of life. ONCE EVERY SECOND YEAR.
KIN 472/PE 472. Adult Exercise Program (3). Blends exercise physiology and practical fitness knowledge in a variety of instructional settings. Students will learn and practice teaching methods and strategies for fitness classes. Basic aerobic fitness, special populations, resistance/weight training and flexibility techniques are covered. ONCE EVERY SECOND YEAR.
KIN 500/MVS 500. (1-3). Permission of instructor.
New courses in development can be introduced provisionally into the curriculum under this number. The current course description, if applicable, is available from the program chair. TO BE ARRANGED.
KIN 501/SMC 501. Facility Planning and Management (3). Examines the feasibility, methods, procedures and administration of sport facility, capital improvement projects as well as the operational, maintenance, event planning and hosting functions of facility management. FALL TERM ONLY.
KIN 502/SMC 502. Telecommunications in Sport, Health and Fitness (3). Introduces the student to two aspects of telecommunication within the fields of sport, health, and fitness: media production and media research. Students produce a short video piece on a topic related to their area of interest. During the development and production process, students are introduced to the concept and methods of formative research. FALL TERM ONLY.
KIN 513/SMC 513. Legal Aspects of Facility Management (3). Examines legal liabilities in management and operation of sport and recreation facilities; and introduces risk management application. WINTER TERM ONLY.
KIN 518/SMC 518. (1-3). New courses in development can be introduced provisionally into the curriculum under this number. Current titles are listed in the Time Schedule. TO BE ARRANGED.
KIN 520/MVS 520. Graduate Seminar in Motor Control (3). Seniors with outstanding academic record may be admitted; MVS 320; permission of instructor. Focuses on current issues in movement control from either a neurophysiological or behavioral viewpoint. Students will present assigned readings and will write a paper on an approved topic. ONCE EVERY SECOND YEAR.
KIN 521/MVS 521. Visuomotor Coordination (3). MVS 320. Covers the basic principles involved in coordination of the ocular and motor systems during visually-guided motor tasks. Topics include the generation and control of different types of eye movements, role of the afferent feedback during visuomotor tracking and the mechanisms involved in visuomotor coordination. ONCE EVERY SECOND YEAR.
KIN 530/MVS 530. Graduate Seminar in Biomechanics (3). Seniors with outstanding academic record may be admitted; MVS 330; permission of instructor. Focuses on current theoretical and practical issues in the biomechanics of movement. Students will present assigned readings and will write a paper on an approved topic. ONCE EVERY SECOND YEAR.
KIN 532/MVS 532. Human musculoskeletal dynamics (3). MVS 330. The dynamics of the human musculoskeletal system are studied to understand the forces and torque’s acting on the body during movement. Methods used to study dynamics are discussed and assessed. ONCE EVERY SECOND YEAR.
KIN 540/MVS 540. Graduate Seminar in Exercise Physiology (3). Seniors with an outstanding academic record may be admitted. MVS 320; MVS 340; permission of instructor. Focuses on contemporary topics related to causes and consequences of movement from a physiologic perspective. Students will present assigned readings and will write a paper on an approved topic. ONCE EVERY SECOND YEAR.
KIN 541/MVS 541. Experiments in Human Exercise Physiology (3). MVS 340. Students review classic studies in energy metabolism, body mass regulation, exercise training, respiratory and circulatory mechanisms in exercise physiology. ONCE EVERY SECOND YEAR.
KIN 551. Sport and Fitness Consumer Research (3). Designed to show students how to discover what motivates people to engage in fitness activities in the “real world.” The course should be especially relevant to those who will be managing corporate fitness programs, health club programs, designing sport products for spectators, corporate sponsors, and other sport consumer groups or will be involved in sport and physical activity marketing. TO BE ARRANGED.
KIN 572/MVS 572. Fitness Evaluation and Exercise Prescription (3). MVS 340. Study and practice of concepts and techniques for evaluating physical fitness. Topics include health and medical histories, liability concerns, blood pressure, graded exercise stress testing, ECG recording and basic interpretation, stress assessment, body composition analysis, pulmonary function tests, CHD risk-factor analysis and health risk appraisal. Lab results and case studies are used to practice writing exercise prescriptions following existing standards of practice. ONCE EVERY SECOND YEAR.
KIN 574. Worksite Wellness (3). MVS 250, MVS 340. Examines legal liabilities in management and operation of sport and recreation facilities; and introduces risk management application. WINTER TERM ONLY.
KIN 576. Seminar: Selected Topics in Kinesiology (2). Includes advanced reading and seminar discussion of research on selected topics in exercise physiology, motor control, biomechanics or sports management and communication. May be repeated for a total of 6 hours credit. TO BE ARRANGED: WINTER TERM.
KIN 610. Current Issues in Kinesiology (3). Introduces students to a selected set of research issues within the field of human movement, emphasizing how different academic disciplines contribute to the field. Students will examine the strengths, weaknesses, and appropriateness of single-discipline and multi-disciplinary studies of human movement. FALL TERM ONLY.
KIN 615. Philosophy of Science and Research in Kinesiology (3). Topics include the nature of scientific inquiry, theories of knowledge acquisition; empirical vs. theoretical research; basic vs. applied research; induction and deduction; doubts and alternatives; objectivity of science; facts, laws and theories; pseudo-science; causation and mechanism; formulation of problems, research design and use of statistics. WINTER TERM ONLY.
KIN 680. Practicum in Physical Education (1-6). An opportunity for concentrated graduate study in certain phases of physical education and closely allied areas. Typically provides a review of current research and analysis of new developments and trends. Uses cooperative approach in which authorities from related fields will cover the operating phases of their work. SEE FACULTY ADVISOR.
KIN 682. Independent Reading in Kinesiology (1-2). Permission of instructor. Advanced reading on topics in Kinesiology under faculty direction. SEE FACULTY ADVISOR.
KIN 684. Independent Research in Kinesiology (1-6). Permission of instructor. Advanced basic and applied research under faculty guidance. SEE FACULTY ADVISOR.
KIN 686. Internship in Kinesiology (1-6). Permission of instructor. Field experiences in activities related to the academic discipline of Kinesiology. SEE FACULTY ADVISOR.
KIN 990. Dissertation, pre candidacy (1-8). Permission of instructor. SEE FACULTY ADVISOR.
KIN 995. Dissertation, candidacy (8 full term; 4 half term). Permission of instructor. SEE FACULTY ADVISOR.
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