

COLLEGE OF APPLIED SCIENCES AND TECHNOLOGY

www.bsu.edu/cast

Applied Technology Building 202, 765-285-5818

Dean of the College: Mitchell Whaley

Associate Dean of the College: Jack Wescott

FAMILY AND CONSUMER SCIENCES

www.bsu.edu/fcs

Applied Technology Building Room 150, 765-285-5931

Chairperson: Alice Spangler

Graduate Advisor: Sue H. Whitaker

Graduate Faculty: Adams, Ahmadi, Altman, Birk, Burnett, Campbell, Chezem, Earhart, Friesen, Hall, Kandiah, Kurtz, Lazo-Flores, Leahy, Nam, Pike, Potts, Pucciarelli, Saiki, Sampson, Thompson, Whitaker

The Department of Family and Consumer Sciences prepares diverse students to improve the quality of life for individuals, families, and communities and the environments in which they function.

Programs empower individuals and families across the life span to manage the challenges of living and working in a diverse, global society through the integration and application of knowledge, skills, attitudes, and behaviors from family and consumer sciences as well as a variety of other disciplines.

The department encourages professional and community service by its faculty and students. The graduate degree options are designed to provide individualization and flexibility for students with varying needs and interests. The master of science in family and consumer sciences and in dietetics and the master of arts in family and consumer sciences can be accomplished with a wide variety of courses. The following options are available also:

Master of Arts in Family and Consumer Sciences

- Apparel Design Option
- Fashion Merchandising Option
- Interior Design Option
- Nutrition Option
- Residential Property Management Option

Master of Science in Family and Consumer Sciences

- Apparel Design Option
- Fashion Merchandising Option
- Interior Design Option
- Residential Property Management Option

In addition, students can develop programs in education, family life, food management, and interior design.

Admission

Applicants must meet the admission requirements of the Graduate School. All applicants must submit a letter of intent, a resume, and two letters of recommendation.

Programs

Master of arts (MA) in family and consumer sciences; master of science (MS) in dietetics and in family and consumer sciences. In general, depending on the program of study, students should anticipate 18–24 months to complete a master’s degree in family and consumer sciences or dietetics.

MASTER OF ARTS IN FAMILY AND CONSUMER SCIENCES

21–33 hours from family and consumer sciences major including a minimum of 9 hours to complete the research component:

Prefix	Number	Short Title	Course Credit Hrs	Program Required
Research component				
9–12 hours from				
BIO	548	Biometry (3)		
<i>or</i>				
EDPSY	641	Statist Meth (3)		
<i>or</i>				
EDPSY	642	Interim Stat (3)		
<i>or</i>				
HSC	687	Stat Mth HSc (3)		3
FCS	697	Res Methods		3
RES	697	Research Ppr (1–3)		
<i>or</i>				
CRPRJ	698	Creat Proj (3 or 6)		3 or 6
Family and consumer sciences courses or one of the options listed below				15
Electives inside or outside the Department of Family and Consumer Sciences (nutrition option students may include dietetic internship FCSFN 680, 681, 682)				6–9
				33 hrs

Apparel design option, 15 hours

Prefix	Number	Short Title	Course Credit Hrs	Program Required
FCSFA	500	Adv Flat Pat	3	
FCSFA	501	Adv Tailor	3	
FCSFA	503	Adv Draping	3	
FCSFA	505	Adv CAD Appr	3	
FCSFA elective				3
				15 hrs

Fashion merchandising option, 15 hours

Prefix	Number	Short Title	Course Credit Hrs	Program Required
FCSFA	555	Adv Fash Anl	3	
FCSFA	565	Adv Designer	3	
FCSFA	570	Adv Fash Buy	3	
FCSFA	575	Adv Int Appr	3	

FCSFA elective				3
				15 hrs

Interior design option, 15 hours

Prefix	Number	Short Title	Course Credit Hrs	Program Required
FCSID	506	Des Theo Cri	3	
FCSID	513	Id Digi Med	3	
FCSID	519	Env Psyc Prg	3	
FCSID	520	Incl Design	3	
FCSID	604	Prof Des Pra	3	
				15 hrs

Applicants must have an undergraduate degree in interior design or related design discipline.

Nutrition option, 15 hours

Prefix	Number	Short Title	Course Credit Hrs	Program Required
FCSFN	642	Nutr Assessm	3	
FCSFN	647	Cho Pro Lip	3	
FCSFN	648	Vit & Min	3	
6 hours from				
FCSFN	500	Cost Hosp Fd (3)		
FCSFN	575	Catering (3)		
FCSFN	643	Obes Wt Ctrl (3)		
FCSFN	644	Nut Exer Spt (3)		
FCSFN	650	Matrn Inf Nu (3)		
FCSFN	651	Pediatr Ntr (3)		
FCSFN	652	Geriatr Ntr (3)		
FCSFN	660	Adv F S Mgt (3)		
FCSFN	683	Adv Pra Diet (3)		6
				15 hrs

Residential property management option, 15 hours

Foundation courses at the undergraduate level (FCSPM 104, 235, 275, 305) are required except when equivalent competency has been documented. Students without an RPM undergraduate degree or with less than six months of industry experience must use 6 of the elective hours to complete FCS 569 Internship.

Students must meet the following additional requirements:

- Grade of C or better in FCSPM 535 and FCS 569 (if applicable)
- Sit for the Certified Apartment Manager (CAM) exam

Prefix	Number	Short Title	Course Credit Hrs	Program Required
FCSPM	530	Adv Apt Oper	3	
FCSPM	535	Adv RPM Proj	3	
FCSPM	585	Adv Sim RPM	3	
FCSPM	635	T&I Corp PM	3	
3 hours from				
FCSFC	680	Family Prob (3)		
FCSPM	525	Adv Gov Hous (3)		
FCSPM	615	Sr Hous Opt (3)		
FCSPM	696	P M Sem (3)		3
				15 hrs

MASTER OF SCIENCE IN FAMILY AND CONSUMER SCIENCES

Prefix	Number	Short Title	Course Credit Hrs	Program Required
Research component				
9–12 hours from				
BIO	548	Biometry (3)		
<i>or</i>				
EDPSY	641	Statist Meth (3)		
<i>or</i>				
EDPSY	642	Interim Stat (3)		
<i>or</i>				
HSC	687	Stat Mth HSc (3)		3
FCS	697	Res Methods	3	
THES	698	Thesis (1–6)		6
Family and consumer sciences courses or one of the options listed below				15
Electives inside or outside the Department of Family and Consumer Sciences (nutrition option students may include dietetic internship FCSFN 680, 681, 682)				6-9
				33-36 hrs

Apparel design option, 15 hours

Prefix	Number	Short Title	Course Credit Hrs	Program Required
FCSFA	500	Adv Flat Pat	3	
FCSFA	501	Adv Tailor	3	
FCSFA	503	Adv Draping	3	
FCSFA	505	Adv CAD Appr	3	
FCSFA elective				3
				15 hrs

Fashion merchandising option, 15 hours

Prefix	Number	Short Title	Course Credit Hrs	Program Required
FCSFA	555	Adv Fash Anl	3	
FCSFA	565	Adv Designer	3	
FCSFA	570	Adv Fash Buy	3	
FCSFA	575	Adv Int Appr	3	
FCSFA elective				3
				15 hrs

Interior design option, 15 hours

Prefix	Number	Short Title	Course Credit Hrs	Program Required
FCSID	506	Des Theo Cri	3	
FCSID	513	Id Digi Med	3	
FCSID	519	Env Psyc Prg	3	
FCSID	520	Incl Design	3	
FCSID	604	Prof Des Pra	3	
Applicants must have an undergraduate degree in interior design or related design discipline.				
				15 hrs

Residential property management option, 15 hours

Foundation courses at the undergraduate level (FCSPM 104, 235, 275, 305) are required except when equivalent competency has been documented.

Students without an RPM undergraduate degree or with less than six months of industry experience must use 6 of the elective hours to complete FCS 569 Internship.

Students must meet the following additional requirements:

- Grade of C or better in FCSPM 535 and FCS 569 (if applicable)
- Sit for the Certified Apartment Manager (CAM) exam

Prefix	Number	Short Title	Course Credit Hrs	Program Required
FCSPM	530	Adv Apt Oper	3	
FCSPM	535	Adv RPM Proj	3	
FCSPM	585	Adv Sim RPM	3	
FCSPM	635	T&I Corp PM	3	
3 hours from				
FCSFC	680	Family Prob (3)		
FCSPM	525	Adv Gov Hous (3)		
FCSPM	615	Sr Hous Opt (3)		

FCSPM	696	P M Sem (3)		3
				15 hrs

MASTER OF SCIENCE IN DIETETICS

Admission

Applicants must meet the admission requirements of the Graduate School. All applicants must submit a letter of intent, a resume, and two letters of recommendation.

Those applying for the MS in dietetics must provide an original, signed American Dietetic Association Verification of Completion Statement from the Didactic Program in Dietetics director or Declaration of Intent to complete a didactic program in dietetics that indicates that academic work is within the last five years. Courses for verification must be completed before the MS in dietetics is granted.

Dietetic Internship

The dietetic internship at Ball State University is a 26-week, full-time program that begins in January and June of each year. Students accepted into the program will have the opportunity to complete the requirements of the dietetic internship and at least 18 hours of the master's degree. The dietetic internship at Ball State University is currently granted accreditation by the Commission on Accreditation for Dietetics Education, 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995, (312) 899-0040. Students applying to the dietetic internship must provide a completed application form, a current resume, a letter of application, a letter of acceptance to the Ball State Graduate School, three original recommendations, and an American Dietetic Association Verification of Completion Statement or Declaration of Intent to complete a didactic program in dietetics, and must hold a baccalaureate degree from an accredited educational institution.

Prefix	Number	Short Title	Course Credit Hrs	Program Required
BIO	548	Biometry (3)		
<i>or</i>				
EDPSY	641	Statist Meth (3)		
<i>or</i>				
EDPSY	642	Interim Stat (3)		
<i>or</i>				
HSC	687	Stat Mth HSc (3)		3
FCS	697	Res Methods	3	
THES	698	Thesis (1-6)		6
Nutrition Core				
FCFSN	642	Nutr Assessm	3	
FCFSN	647	Cho Pro Lip	3	
FCFSN	648	Vit & Min	3	
6 hours from				
FCSFN	500	Cost Hosp Fd (3)		
FCSFN	575	Catering (3)		
FCSFN	643	Obes Wt Ctrl (3)		
FCSFN	644	Nut Exer Spt (3)		
FCSFN	650	Matrn Inf Nu (3)		
FCSFN	651	Pediatr Ntr (3)		

FCSFN	652	Geriatr Ntr (3)		
FCSFN	660	Adv F S Mgt (3)		
FCSFN	683	Adv Pra Diet (3)		6
9 hours from FCSFN dietetic internship sequence (FCSFN 680, 681, 682) or other electives inside or outside the Department of Family and Consumer Sciences such as public health, patient education and medical nutritional therapy interests				9
				36 hrs

FAMILY AND CONSUMER SCIENCES (FCS)

FCS 500 Field Studies in Family and Consumer Sciences (1–6) Field study sites may either be domestic or international, and in any area of family and consumer sciences. Readings related to the field experience will be included.

Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned.

FCS 569 Internship in Family and Consumer Sciences (3–6) Provides the opportunity for work in an established setting to gain professional experience in one's specific area of study.

Prerequisite: permission of the department chairperson.

A total of 9 hours of credit may be earned, but no more than 6 in any one semester or term.

FCS 594 Workshop: Family and Consumer Sciences. (1–3) Activity-oriented study of one topic in family and consumer sciences.

A total of 9 hours of credit may be earned, but no more than 3 in any one semester or term.

595 Independent Study in Family and Consumer Sciences. (1–3) Investigation and exploration of a topic in family and consumer sciences. Emphasizes extensive reading and the development of research skills.

Prerequisite: permission of the department chairperson.

A total of 9 hours of credit may be earned, but no more than 3 in any one semester or term.

FCS 596 Seminar in Family and Consumer Sciences (1–6) Seminar topics will focus on current issues in the family and consumer sciences profession. Using the seminar format students will research, discuss, and disseminate information gathered on a given topic.

Prerequisite: permission of the department chairperson.

A total of 9 hours of credit may be earned, but no more than 6 in any one semester or term.

FCS 697 Research Methodology in Family and Consumer Sciences (3) Analysis and application of research procedures in the various areas of family and consumer sciences. The focus is on critiquing research completed by others and developing a research proposal.

Prerequisite: permission of the department chairperson.

Parallel: EDPSY 641 or 642 or BIO 548 or HSC 697.

FAMILY AND CONSUMER SCIENCES: EDUCATION (FCSED)

FCSED 692 Family and Consumer Sciences Education Program Implementation (3) Standards for and history and philosophy of family and consumer sciences education (FCSED) are featured. Techniques

for implementing career and technical FCSED programs are included. Also incorporates strategies for developing leadership, youth organizations, public relations, and professionalism.

Not open to students who have credit in FCSED 492, except by permission of the department chairperson.

FCSED 693 Curriculum in Family and Consumer Sciences (3) A study of curriculum components. Features the principles of curriculum development and implementation in family and consumer sciences education. Existing curriculum standards at the state and national level are utilized in curriculum development.

Open only to students with an FCSED teaching license or by permission of the department chairperson.

FCSED 694 Assessment and Evaluation in Family and Consumer Sciences Education (3)

Assessment used by effective teachers in FCS education. Use of forms such as checklists, rubrics, scorecards, and other measures are explored. Emphasizes ways to incorporate assessment that promotes student learning and develops student confidence. Includes means of assessment for unique students and/or teaching/learning settings.

Open only to students with an FCSED teaching license or by permission of the department chairperson.

FCSED 695 Contemporary Methods for Teaching Family and Consumer Sciences Education (3)

Methods and techniques used by effective family and consumer sciences education teachers. Includes ways to incorporate methods that promote student directed learning, decision making, and the development of responsible citizens. Emphasizes methods that create an appropriate teaching/learning classroom and develop a community of learners.

Open only to students with an FCSED teaching license or by permission of the department chairperson.

Family and Consumer Sciences: Fashion Merchandising and Apparel Design (FCSFA)

FCSFA 500 Advanced Flat Pattern (3) Fundamental principles of pattern modification using a basic pattern. Emphasis on pattern alteration and fitting of basic dress and pants. Use of computer-aided design to produce a pattern for a garment of original design.

FCSFA 501 Advanced Tailoring (3) Review of current trends in tailored garments. Construction of tailored garment using contemporary techniques.

FCSFA 503 Advanced Design by the Draping Method. (3) Provides basic knowledge of apparel design using the draping method.

FCSFA 505 Advanced Computer-Aided Design for Apparel. (3) Knowledge of the use of Computer-Aided Design (CAD) in fashion apparel designing.

FCSFA 555 Advanced Fashion Product Analysis. (3) Study of factors that contribute to the quality of fashion-related merchandise. Provides an opportunity to become skillful in evaluating the materials and construction quality and techniques used in the textile and apparel industry. Includes investigation of current trends related to apparel quality and sourcing.

Prerequisite: permission of the department chairperson.

FCSFA 565 Advanced Study of Fashion Designers and Forecasting. (3) Study of present and historical fashion designers from around the world. Emphasis on understanding their contributions to the

fashion industry and their influence in today's fashion markets. An understanding of the process of fashion forecasting is stressed.

Prerequisite: permission of the department chairperson.

FCSFA 570 Advanced Fashion Buying and Merchandising. (3) Review of current trends in fashion merchandising. Building a knowledge base to make decisions on buying and merchandising to satisfy customers and maintain an adequate profit level.

Prerequisite: permission of the department chairperson.

FCSFA 575 Advanced International Apparel Markets. (3) Provides an overview of the global textile and apparel industries. Considers the U.S. textile complex and market within an international context. Investigation of current trends in the international apparel marketplace.

Prerequisite: ECON 201 or 509; MKG 300 or 505; permission of the department chairperson.

Family and Consumer Sciences: Family and Child (FCSFC)

FCSFC 680 Family Problems. (3) Survey of the major problems experienced by families. Emphasizes whole-family functioning rather than individual functioning. Preventive measures, treatment approaches, and appropriate agencies and services are identified.

Family and Consumer Sciences: Foods and Nutrition (FCSFN)

FCSFN 500 Cost Control in Hospitality and Foodservice Industry (3) Controlling cost from a management perspective in the hospitality and foodservice industry.

Prerequisite: ACC 201.

Not open to students who have credit in FCSFN 300.

FCSFN 540 Human Nutrition. (3) Addresses the principles of nutrition, life-cycle nutrition, and the relationship of diet to health and disease.

Not open to students who have credit in FCSFN 340, 445 or equivalent.

FCSFN 571 Computer Applications in Family and Consumer Sciences. (3) Emphasizes applications of computer utilization in food management and hospitality, nutrition, and other family and consumer sciences professions. Software, including spreadsheet, database, presentation, publication, word processing, and the Internet, is employed. Includes selection and application of software specific to food management and hospitality, nutrition, and other family and consumer sciences professions.

Not open to students who have credit in FCSFN 371.

FCSFN 575 Catering for Profit. (3) Fundamentals of planning, organizing, preparing, and serving profitable and unique catering functions. Emphasizes menu development, customer service, marketing, and food production.

Prerequisite: FCSFN 400 or permission of the department chairperson.

Not open to students who have credit in FCSFN 475.

FCSFN 576 Event Management. (3) Management of hospitality and business-related activities such as conventions, professional and social events, catered activities, and their intra-industry interactions.

Not open to students who have credit in FCSFN 476.

FCSFN 642 Nutrition Assessment. (3) Techniques needed to evaluate nutritional status and plan appropriate nutrition intervention. Includes assessment of dietary intake, body composition, nutrient

requirements, and laboratory indices of nutritional status. Development of appropriate nutrition therapies will be addressed.

Prerequisite: FCSFN 446, 447 or equivalent.

FCSFN 643 Energy Balance, Obesity, and Weight Control. (3) In-depth study of the components of energy balance, theories regarding the etiology of obesity, and the impact of obesity and dieting on health. Includes evaluation of current weight control techniques and identification of the best methods for maintaining optimal body weight.

Prerequisite: FCSFN 340 or 345, 346 or equivalent.

FCSFN 644 Nutrition for Exercise and Sport. (3) Examination and integration of the principles of nutrition and energy metabolism as they apply to athletes and active individuals. Dietary recommendations for athletes participating in various sports will be reviewed. Current research in sports nutrition will be discussed.

Prerequisite: FCSFN 340 or 345, 346 or equivalent.

Not open to students who have credit in FCSFN 444.

FCSFN 647 Carbohydrates, Proteins, and Lipids. (3) Advanced study of carbohydrates, proteins, and lipids in humans. Includes macronutrient metabolism and the relationship of these dietary components to health and disease.

Prerequisite: FCSFN 345 or equivalent.

FCSFN 648 Vitamins and Minerals. (3) Advanced study of vitamins and minerals in humans including micronutrient metabolism and the relationship of these dietary components to health and disease.

Prerequisite: FCSFN 346 or equivalent.

FCSFN 650 Maternal and Infant Nutrition. (3) Nutrition during pregnancy, lactation, and infancy. Includes nutrient needs, growth and development, and common complications. Emphasizes reading in current professional publications.

Prerequisite: FCSFN 345, 346, or equivalent.

FCSFN 651 Pediatric Nutrition. (3) Principles of pediatric nutrition (preschool through adolescence). Nutritional needs of children in normal and therapeutic nutrition will be investigated. Current research in pediatric nutrition will be discussed.

Prerequisite: FCSFN 345, 346, or equivalent.

FCSFN 652 Geriatric Nutrition. (3) Nutritional needs of older adults in consideration of physiological and social changes and research in the field. Review recent literature, evaluate nutrition status of elderly persons in selected situations, and study and evaluate nutrition programs designed for older adults.

Prerequisite: FCSFN 340 or 540 or permission of the department chairperson.

FCSFN 660 Advanced Food Service Administration. (3) Identification and application of advanced foodservice management and marketing concepts; development of skills required of dietitians and other upper level managers.

Prerequisite or parallel: FCSFN 363 or permission of the department chairperson.

FCSFN 680 (580) Supervised Practices in Food Systems Management. (3) Application of management principles involved in the acquisition, production, quality control, distribution, and service of quality food in an acute care environment; development of a philosophy of excellence in administrative leadership through supervision of foodservice personnel (360 clock hours).

Prerequisite: permission of the department chairperson.

Open only to dietetic internship students.

FCSFN 681 (581) Supervised Practice in Nutrition Therapy. (3) Application of the healthcare team approach of dietary management to human pathophysiologic status through assessing, planning, documenting, and counseling individuals and educating groups in an acute care environment (520 clock hours).

Prerequisite: permission of the department chairperson.

Open only to dietetic internship students.

FCSFN 682 (582) Supervised Practice in Community Nutrition/Nutrition/ Business/Entrepreneur. (3) Application of concepts and methodologies of nutrition and health practices as related to the family and people in the community; provision of education programs for specific populations and the public through community agencies and related business and private organizations (320 clock hours).

Prerequisite: permission of the department chairperson.

Open only to dietetic internship students.

FCSFN 683 Advanced Practice in Dietetics. (3) Advanced directed study in an approved area of board certified or specialty certification as recognized by the American Dietetic Association. Areas of specialized practice could include sports nutrition, pediatrics, nutrition support, weight management, oncology, geriatrics, or diabetes.

Prerequisite: current registered dietitian status.

FCSFN 696 Seminar in Foods and Nutrition. (3–6) Student presentations and discussions of trends and issues related to food and nutrition. Emphasizes in-depth knowledge of current research findings and policy issues. Basic knowledge of food and nutrition required.

Prerequisite: permission of the department chairperson.

A total of 9 hours of credit may be earned, but no more than 6 in any one semester or term.

FAMILY AND CONSUMER SCIENCES: INTERIOR DESIGN (FCSID)

FCSID 506 Design Theory and Criticism. (3) Provides the opportunity to develop intellectual and imaginative abilities through the study of innovative methodologies, scholarly design researches, the works of key design practitioners, theorists, and critics, evolving design postulations and conceptual articulations within social, cultural and economic developments over time.

FCSID 513 Design with Digital Media. (3) Applying and integrating cutting edge software to the development of a comprehensive commercial project.

FCSID 519 Environmental Psychology and Programming. (3) Provide theories of interplay of human and interior space. Behavioral settings, proxemics, density and crowding, noise, personal space and territory will be discussed. Further, methods of gathering, organizing, and assessing data needed to design the interior spaces, developing design concepts, goals, and objectives will be discussed.

FCSID 520 Inclusive Design. (3) Focuses on design solutions for all users of the interior space with emphasis on the functional, cultural, and agronomical needs. Discusses alternative approaches to design process, materials, and user centric products. Concepts and principles of universal and global design and governmental regulations are covered.

FCSID 604 Professional Design Practices. (3) Focuses on the trends and issues embracing the professional, ethical and transnational interior design practices. Students will be introduced to successful

models and relevant strategies in design leadership, management and entrepreneurship, and conclude in developing a business plan.

FAMILY AND CONSUMER SCIENCES: MERCHANDISING (FCSMR)

FCSMR 596 Seminar in Merchandising. (3) Exploration and integration of concepts related to the various elements of merchandising.

Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

FAMILY AND CONSUMER SCIENCES: RESIDENTIAL PROPERTY MANAGEMENT (FCSPM)

FCSPM 515 Advanced Senior Housing: Design, Marketing, and Management. (3) Exploration of the principles that guide the design, marketing, and management of housing for older adults. Conceptual development of these principles, applicable to a local setting.

FCSPM 525 Advanced Management of Government-Assisted Housing. (3) Exploration of the practices that impact government-assisted housing programs and the role of management in meeting the needs of owners, residents, and regulatory agencies. Application of these practices through advanced projects and field experiences.

Not open to students who have credit in FCSPM 405.

FCSPM 530 Advanced Apartment Operations Management. (3) Residential property managers are responsible for day to day and long term financial condition of the housing communities they manage. This course equips students with the knowledge and skills necessary to add value to multifamily residential communities.

Not open to students who have credit in FCSPM 330.

FCSPM 535 Advanced Residential Property Management Project. (3) Provides an advanced, hands-on opportunity to use industry standards to analyze an apartment community. The resulting project can provide the management company with information to remain competitive and profitable in the apartment market.

FCSPM 585 Advanced Simulation in Residential Property Management. (3) Application of advanced residential property management skills practiced through simulation activities. Opportunity to research common problems in the industry to arrive at solutions.

FCSPM 615 Senior Housing Options. (3) Examination of the challenges and solutions in housing older adults from independent living through dependent custodial care. Investigation and evaluation of senior housing options through research projects and field experiences. Exposure to senior housing from a global perspective.

FCSPM 635 Trends and Issues at the Corporate Level in Property Management. (3) Research the trends and issues at the corporate level of property management making use of current demographic and other data. Examine legislative issues related to a balanced housing policy.

FCSPM 696 Property Management Seminar. (3) Exploration of the professional practices of specialized property types. Using the seminar format, students will research, discuss, evaluate, and disseminate information related to a given property type.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

NURSING

www.bsu.edu/nursing

Cooper Science Complex, Room 418, 765-285-5571

Director: Linda Siktberg

Graduate Advisors: Nagia Ali, Kay Hodson-Carlton, Marilyn Ryan

Graduate Faculty: Ali, Bantz, Dillard, Hodson-Carlton, Johnson, Kelsey, Ryan, Siela, Siktberg, Thomas, Twibell, Wieseke, Wolfe, Worrell-Carlisle

PROGRAMS

MASTER OF SCIENCE (MS) IN NURSING

Admission

Applicants must meet the admission requirements of the Graduate School. Applicants must also

- be a graduate of a National League for Nursing (NLN) or Association of Colleges of Nursing (CCNE) accredited nursing program. Registered nurses holding baccalaureate degrees in another field who demonstrate successful completion of an upper-division major in nursing may qualify.
- have earned overall grade point average (GPA) of 2.80 on a 4.0 scale or 3.0 upper-division GPA in the baccalaureate program.
- have earned a grade of *C* or better in at least 2-quarter, or -semester, hours in an undergraduate research course.
- have had a physical assessment course (required for clinical majors).
- hold an unencumbered license as a registered nurse in state of practice.
- show evidence of training in standard precautions.
- have health clearance.
- clear criminal background checks.
- have minimum of one year clinical experience before enrolling in clinical courses for new graduates.
- have recent clinical experiences (three of past five years) before enrolling in clinical courses for experienced nurses.

This program is delivered via the World Wide Web and requires computer access.

NUR 605 Nursing Information Technology is required for all students.

Retention Standards

An overall scholastic ratio of 3.0 (*B* average) must be attained before admission to candidacy and the final awarding of any master's degree. No course with grades below *C* (2.0) may be counted toward any degree program.

Registered Nurse to Master of Science Nursing Mobility

This program is designed for nurses holding an associate degree in nursing and a baccalaureate degree in another field. Contact the School of Nursing for more information.

All students take the following research and nursing core courses.

Prefix	Number	Short Title	Course Credit Hrs	Program Required
Research core				
EDPSY	641	Statist Meth (3)		
<i>or</i>				
NUR	607	Data Anly (3)		3
NUR	604	Research	3	
				6 hrs
Nursing core				
NUR	603	Nur Theory	3	
NUR	605	Nur Info	2	
NUR	610	Concp Anls 1	3	
NUR	611	Concp Anls 2	3	
				11 hrs

Complete one of the following tracks: Clinical Nurse Specialist Adult Health Track, 46 hours

Prefix	Number	Short Title	Course Credit Hrs	Program Required
Research core				6
Nursing core				11
NUR	614	Concp Anls 3	3	
NUR	630	Clin Role	3	
NUR	632	Pathophys	3	
NUR	634	HI Assessmnt	3	
NUR	638	Pharm	3	
NUR	672	Role Expct	4	
NUR	680	Adv Adult	7	
RES	697	Research Ppr (1-3)	3	
				46 hrs

Nursing Leadership Track, 33 hours

Prefix	Number	Short Title	Course Credit Hrs	Program Required
Research core				6
Nursing core				11
Role core				9
Select from one role core option				
<i>Administrative core</i>				
NUR	640	Nur Adm Theo (3)		
NUR	642	Adm Mgt Nurs (3)		

NUR	643	Fin Mgt (3)		
<i>Educator core</i>				
NUR	620	Curr Designs (3)		
NUR	622	Teach in Nur (3)		
NUR	626	Prog Eval (3)		
<i>Clinical core, 3 courses from</i>				
NUR	630	Clin Role (3)		
NUR	632	Pathophys (3)		
NUR	634	HI Assessmnt (3)		
NUR	638	Pharm (3)		
Practicum				
NUR	672	Role Expct	4	
Scholarship option				
RES	697	Research Ppr (1-3)	3	
				33 hrs

Nurse Practitioner (Adult/Family), 43–50 hours

Adult Nurse Practitioner

Prefix	Number	Short Title	Course Credit Hrs	Program Required
<i>Research core</i>				6
<i>Nursing core</i>				11
NUR	614	Concp Anls 3	3	
NUR	630	Clin Role	3	
NUR	632	Pathophys	3	
NUR	634	HI Assessmnt	3	
NUR	638	Pharm	3	
NUR	672	Role Expct	4	
NUR	680	Adv Adult	7	
				43 hrs

Family Nurse Practitioner

To extend degree to Family Practitioner the following courses are required.

Prefix	Number	Short Title	Course Credit Hrs	Program Required
NUR	682	Prim Child	4	
NUR	684	Prim Women	3	
				50 hrs

Post-Master's Certificate Nurse Practitioner (Adult/Family), 25–32 hours

Adult Nurse Practitioner

Prefix	Number	Short Title	Course Credit Hrs	Program Required
NUR	605	Nur Info	2	

NUR	630	Clin Role	3	
NUR	632	Pathophys	3	
NUR	634	HI Assessmnt	3	
NUR	638	Pharm	3	
NUR	672	Role Expct	4	
NUR	680	Adv Adult	7	
				25 hrs

Family Nurse Practitioner

To extend certificate to Family Practitioner the following courses are required:

Prefix	Number	Short Title	Course Credit Hrs	Program Required
NUR	682	Prim Child	4	
NUR	684	Prim Women	3	
				32 hrs

Post-Master's Certificate Nurse Educator, 15 hours

Prefix	Number	Short Title	Course Credit Hrs	Program Required
NUR	605	Nur Info	2	
NUR	620	Curr Designs	3	
NUR	622	Teach in Nur	3	
NUR	626	Prog Eval	3	
NUR	672	Role Expct	4	
				15 hrs

Post-Master's Certificate for Certified Nurse Practitioners (Adult or Gerontology), 13 hours

Prefix	Number	Short Title	Course Credit Hrs	Program Required
NUR	605	Nur Info	2	
NUR	672	Role Expct	4	
NUR	682	Prim Child	4	
NUR	684	Prim Women	3	
				13 hrs

Post-Baccalaureate Certificate Program in Nursing Education, 14 hours

Prefix	Number	Short Title	Course Credit Hrs	Program Required
NUR	603	Nur Theory	3	
NUR	605	Nur Info	2	
NUR	620	Curr Designs	3	
NUR	622	Teach in Nur	3	
NUR	626	Prog Eval	3	

				14 hrs
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Post-Baccalaureate Certificate Program in Evidence-Based Clinical Practice, 14 hours

Prefix	Number	Short Title	Course Credit Hrs	Program Required
NUR	603	Nur Theory	3	
NUR	604	Research	3	
NUR	605	Nur Info	2	
NUR	607	Data Anly	3	
RES	697	Research Ppr (1-3)	3	
				14 hrs

DOCTORATE IN NURSING PRACTICE (DNP)

Admission

Applicants must meet the admission requirements of the Graduate School as well as additional requirements of the School of Nursing. Contact the School of Nursing for additional information.

Applicants must also:

- Have graduated from a National League for Nursing Accrediting Commission (NLNAC) or Commission on Collegiate Nursing Education (CCNE) accredited baccalaureate or master's program in nursing with a minimum grade point average of 3.2 on a 4.0 scale.
- Have acceptable scores on the Graduate Record Examination (GRE).
- Have completed an undergraduate or graduate level statistics course and nursing research course.
- Have completed an undergraduate or graduate level health assessment course.
- Have an unencumbered license as a registered nurse in the state of practice.
- Have a minimum of one year of nursing clinical experience for new baccalaureate nursing graduates or recent clinical experience for other nurses before enrolling in clinical courses.
- Meet all health clearance, criminal background checks, and other requirements for clinical practice.

The Admission and Progression Committee will review all application materials and a phone interview will be conducted prior to determination of acceptance in the program.

The number of applicants admitted to the DNP program is limited. Admission will be competitive and meeting the minimum admission criteria does not ensure that an applicant will be admitted to the program.

Points of Entry into DNP Program

Nurses may apply and be admitted to the DNP program at two entry points—post nursing baccalaureate degree (BS to DNP) or after completion of a master's degree or higher in nursing.

Nurses who have a nursing baccalaureate degree but who do not have a master's degree in nursing may be admitted directly to the DNP program.

Nurses who have completed a master's degree in nursing at Ball State University School of Nursing in Adult or Family Nurse Practitioner or Adult Health Clinical Nurse Specialist track may be admitted to the DNP program and are able to apply earned master's degree credit hours toward the required minimum post baccalaureate 90 credit hours.

Nurses who have completed a master's degree in nursing at Ball State University School of Nursing in the Leadership track (Nurse Educator or Nurse Administrator) may be admitted to the DNP program but must complete Adult or Family Nurse Practitioner or Adult Health Clinical Nurse Specialist track

courses prior to starting the DNP core courses. Earned master's degree in nursing credit hours can be applied toward the required minimum post baccalaureate 90 credit hours.

Plans of study for nurses who have completed a master's or higher degree in nursing from another university will be designed to meet the requirements of Ball State University School of Nursing without duplication of equivalent courses. A minimum of 48 of the required minimum post baccalaureate 90 credit hours must be completed at Ball State University.

DNP Program Graduation Requirements

The DNP program requires completion of a minimum of 90 post baccalaureate credit hours including a minimum of 1000 post baccalaureate clinical hours. The DNP program requires completion of a scholarly project (4 credit hours) under the advisement of a nursing faculty member with evaluation by a faculty committee. The DNP project (NUR 792) is completed within the context of 360 supervised practicum hours (NUR 790/791). As is standard with other practice or professional doctorates, a dissertation is not required.

Doctorate in Nursing Practice (DNP)

Prefix	Number	Short Title	Course Credit Hrs	Program Required
NUR	603	Nur Theory	3	
NUR	604	Research	3	
NUR	605	Nur Info	2	
NUR	607	Data Anly	3	
NUR	610	Concp Anls 1	3	
NUR	611	Concp Anls 2	3	
NUR	614	Concp Anls 3	3	
NUR	630	Clin Role	3	
NUR	632	Pathophys	3	
NUR	634	HI Assessmnt	3	
NUR	638	Pharm	3	
NUR	672	Role Expct	4	
NUR	680	Adv Adult	7	
NUR	682	Prim Child	4	
NUR	684	Prim Women	3	
NUR	730	Stats HI Res	3	
NUR	740	Mdls of Care	3	
NUR	742	Research EBP	3	
NUR	744	Outcomes Res	3	
NUR	760	Popltn Care	4	
NUR	762	HI Bus Econ	3	
NUR	764	Ldshp Adv Pr	3	
NUR	780	Adv Topics	3	
NUR	790	Prac 1	3	
NUR	791	Prac 2	3	
NUR	792	DNP Project	4	
HSC	683	Epidemiology	3	
Directed elective courses				3
				91 hrs

Certificate Program in Evidence-based Clinical Practice

Admission requirements

- Graduate from a baccalaureate program, accredited by the National League for Nursing or the Commission on Collegiate Nursing Education, that included an upper-division nursing major.
- Meet requirements for admission to graduate study at Ball State University.
- Have earned a minimum overall cumulative grade point average (GPA) of 2.8 on a 4.0 scale or upper-division nursing GPA of 3.0 in the baccalaureate program.
- Complete an undergraduate research course, 2.0 quarter/semester hours, completed with a grade of C or above.
- Evidence of completion of a physical assessment course (for Clinical, NP Track).
- Hold current license as a registered nurse in state of practice.
- Have own professional liability insurance.
- Have a minimum of two full years of experience in professional nursing for full-time study.
- Have evidence of training in standard (universal) precautions.
- Health clearance.

NURSING (NUR)

NUR 603 Nursing Theory. (3) Exploration and analysis of theory development in the field of nursing, emphasizing current research, conceptual models, and theory development in nursing.

NUR 604 Research. (3) Research methodology in nursing emphasizing the critical evaluation of research and its applicability to practice.

Prerequisite or parallel: graduate statistics.

Open only to graduate nursing students.

NUR 605 Nursing Information Technology. (2) Evaluates the impact of information and health care technology in relationship to advanced nursing. Experiences include the utilization of computer hardware and software and initiating a line of inquiry via database use.

NUR 606 Nursing and Computer Technology 2. (2) Builds on experience in the use of computers. Emphasizes a further exploration of computer integration in nursing practice, service administration, education, or research. Computer laboratory experience included.

Prerequisite: NUR 605 or equivalent.

NUR 607 Data Analysis in Nursing Research. (3) Emphasizes the interpretation and application of descriptive, inferential, and advanced statistical analyses of data. Critical examination of data collection, data analyses, and interpretation of quantitative and qualitative nursing studies will be the focus.

NUR 610 Concepts Analysis 1. (3) Analyzes selected nursing concepts and related research with a focus on health promotion. Relationship of concepts to advanced practice models is explored. Clinical experience focuses on application of research findings to clinical populations in various stages of the life cycle.

Prerequisite recommended: full admission to program; NUR 603, 604.

NUR 611 Concept Analysis 2: Decision Making. (3) Builds on analysis of concepts from NUR 610. Emphasizes ethics and clinical decision making to facilitate client transition from acute illness to optimal health. Nursing theory and research-based interventions are incorporated into clinical experiences.

Prerequisite: NUR 603, 604, 610.

NUR 614 Concepts Analysis 3: Concepts Issues in Chronic Illness and Aging. (3) Builds on NUR 610 and 611 concepts and issues of chronic illness and aging are applied. Research findings are analyzed related to quality care. Impact of fiscal management health care policies and technology are explored.

Open only to nursing master's candidates.

NUR 618 Application of Clinical Concepts in Community-Based Settings. (3) Applies nursing process, primary health care principles, and primary and secondary prevention with community-based populations. Explores community practice models and the effect of health policy on health care delivery. Clinical focus includes interdisciplinary and intersectoral collaboration in addressing consumer health needs.

Prerequisite: NUR 603, 604.

NUR 620 Curricular Designs in Nursing. (3) Opportunity to develop, implement, and/or evaluate student-selected aspects of existing nursing curricula. Emphasizes a group experience in assessing a curricular problem and applying current theory of practice in seeking solutions to a practical curriculum issue.

Prerequisite: NUR 603.

NUR 622 Teaching in Nursing. (3) Focuses on teacher behaviors that promote student learning, including course development and use of technology in a variety of post-secondary nursing environments. Includes faculty roles and responsibilities in nursing education.

NUR 626 Program Evaluation. (3) Focuses on program evaluation of a nursing unit by exploring the components of a systematic evaluation plan and identifying evaluational tools for educational assessment using collaborative strategies.

Prerequisite: NUR 620, 622; or previous teaching experience and permission of the instructor.

NUR 630 Advanced Practice Nursing and Role Theory. (3) Nursing and related theories analyzed as the roles of advanced practice nurses are explored. Professional practice issues are examined through the synthesis of professional and research literature. A conceptual model to guide practice is developed.

Prerequisite recommended: NUR 604, 610, 611, 614.

NUR 632 Pathophysiology and Nursing Practice. (3) Provides a comprehensive scientific background and understanding of pathophysiology as it relates to client assessment across the lifespan in a variety of health care settings. Forms the basis for advanced nursing practice.

Prerequisite: NUR 603, 604.

NUR 634 Advanced Health Assessment. (3) Practice of advanced health assessment techniques across the lifespan. Emphasizes the use of critical thinking and decision-making abilities to formulate differential diagnosis and a plan of care based on assessment data.

Prerequisite: admission to program; NUR 603, 604.

NUR 638 Advanced Clinical Pharmacology. (3) Provides principles of advanced pharmacology based on pharmacotherapeutics, pharmacokinetics, and pharmacodynamics of broad categories of drugs. Emphasizes pharmacological management of clients across the lifespan in diverse settings.

NUR 640 Nursing Administration in Complex Organizations. (3) Introduction to administration of nursing. Relates organizational and administrative theories to the delivery of nursing care with emphasis on the health care environment.

Prerequisite: NUR 604.

NUR 642 Administrative Management for Nurses. (3) Introduction to organizational planning, budgeting, human resources management, conflict management issues, quality management, and ethics.

Prerequisite: NUR 604, 640.

NUR 643 Financial Management for Nurses. (3) Introduction to economic and budgeting processes and the impact of costs on nursing care delivery systems. Includes laboratory experience with budgets.

Prerequisite: NUR 604, 640, 642.

Open only to graduate nursing students.

NUR 672 Practicum of Role Expectations. (4) Practicum in (clinical/educational/ administrative/nurse practitioner) setting of student's selected functional role. Seminars for guidance and analysis of role relationships. Topics include teacher in nursing; administrator in nursing; role of clinical nurse in advanced practice; nurse practitioner.

Prerequisite: all required role courses.

NUR 680 Advanced Care of Adult. (7) Focuses on the application and evaluation of advanced practice knowledge and skills required for the care of adults.

Prerequisite: NUR 630, 632, 634, 638.

Open only to nurse practitioner or clinical nurse specialist students.

NUR 682 Primary Care of Children. (4) Focuses on the application and evaluation of advanced nursing practice knowledge and skills required for the care of children and their families.

Prerequisite: all courses required for adult nurse practitioner program.

Open only to family nurse practitioner students.

NUR 684 Primary Care of Women. (3) Focuses on the application and evaluation of advanced nursing practice knowledge and skills required for the care of women and their families.

Prerequisite: all courses required for adult nurse practitioner program.

Open only to family nurse practitioner students.

NUR 690 Special Studies in Nursing. (1–4) Group study of topics of special interest in nursing. A total of 4 hours of credit may be earned.

NUR 699 Independent Study. (1–3) Independent study under the direction of a faculty member. May involve experimental inquiry, independent exploration of literature and resources, or development of special techniques.

Prerequisite: permission of the coordinator of graduate studies in nursing and the department chairperson.

A total of 3 hours of credit may be earned.

NUR 730 Statistics for Health Care Research. (3) Focuses on application of advanced statistical methods and analysis of data used in research for evidence-based practice and clinical decision making.

NUR 740 Theory Based Models of Care. (3) Focuses on the development and evaluation of models of care within the framework of nursing theories and theories from other disciplines. Emphasis on

integrating nursing science with knowledge from the biophysical, psychosocial, and behavioral sciences and ethics as the basis for advanced nursing practice.

NUR 742 Research for Evidence-Based Practice. (3) Focuses on critical analysis of scientific evidence and its application and evaluation in advanced nursing practice. Emphasis on ethical, cultural, and financial implications of evidence-based practice. The role of the advanced practice nurse in collaborative research and dissemination of findings is explored.

Prerequisite: NUR 730.

NUR 744 Outcomes Research and Evaluation. (3) Focuses on the design and implementation of processes to evaluate health outcomes at patient, population, community, and health care systems levels. Emphasis on the application of relevant outcomes research and evaluation findings for quality improvement at all levels of care.

Prerequisite: NUR 730.

NUR 760 Population Focused Care. (4) Focuses on the advanced practice nursing role in disease prevention and health promotion for populations. Emphasis on designing, implementing, and evaluating care that will eliminate health disparities. Global health issues are explored. Clinical experience will be in a population focused care environment.

Prerequisite: NUR 730; HSC 683.

NUR 762 Health Care Business and Economics. (3) Focuses on principles of business, finance, economics, and health care informatics utilized in developing and evaluating care delivery approaches within health care systems and clinical practice. Emphasis on cost-effective practice initiatives for elimination of health disparities and improvement of health care outcomes.

NUR 764 Leadership in Advanced Practice. (3) Explores the advanced practice nurse leadership role at organizational and systems levels. Emphasis on the inter-professional dimension of health care with use of collaborative and consultation skills. Analysis, development, and implementation of health care policies will be explored. Clinical experience will be in a leadership environment.

NUR 780 Seminar: Advanced Topics in Management of Client Health/Illness Status. (3) Explores current client health/illness management issues to include: assessment and management of health and illness parameters in complex situations incorporating diverse and culturally sensitive approaches. Use of advanced levels of clinical judgment and systems thinking in designing, delivering, and evaluating evidence-based care to improve patient outcomes.

NUR 790 Practicum 1. (3) Practice experiences are designed to achieve specific learning objectives related to the DNP Essentials and NONPF Competencies. Experiences include in-depth work with experts from nursing as well as other disciplines and provide opportunities for meaningful engagement within practice environments. These experiences provide the context for the DNP project.

Prerequisite: all other courses except NUR 792.

NUR 791 Practicum 2. (3) Practice experiences are designed to achieve specific learning objectives related to the DNP Essentials and NONPF Competencies. Experiences include in-depth work with experts from nursing as well as other disciplines and provide opportunities for meaningful engagement within practice environments. These experiences provide the context for the DNP project.

Prerequisite: all other courses except NUR 792.

NUR 792 DNP Project. (4) A creative scholarly project designed by the student in collaboration with a faculty advisor. The project must be a significant, evidence based endeavor to improve practice or patient outcomes and be suitable for publication in a peer reviewed journal.

Prerequisite: 15 completed credit hours of 700 level courses.

SCHOOL OF PHYSICAL EDUCATION, SPORT, AND EXERCISE SCIENCE

www.bsu.edu/physicaleducation

Health and Physical Education Building 205, 765-285-8753

Interim Chairperson: Anthony Mahon

Coordinator of Graduate Programs: David Pearson

Coordinator of Sport and Physical Education Graduate Studies in Exercise Science: David Pearson

Graduate Faculty: Bell, Blom, Buck, Burt, Costill, Dugan, Harber, Hargens, Ignico, Ivan, Jemiolo, Judge, Jutte, Kaminsky, Mahon, Nagelkirk, Pearson, Petersen, Smith, S. Trappe, T. Trappe, Vidoni, Wang, Weidner, Whaley

PROGRAMS

Master of arts (MA) or master of science (MS) in exercise science with specialization in clinical exercise physiology, biomechanics, sports performance, and exercise physiology; master of arts (MA) or master of science (MS) in physical education and sport with specialization in sport management, sport and exercise psychology, sport administration, adapted physical education, coaching, and teacher education; doctor of philosophy (PhD) in human bioenergetics.

MASTER OF ARTS OR MASTER OF SCIENCE IN EXERCISE SCIENCE

Admission

Applicants must meet the admission requirements of the Graduate School; have bachelor's degrees from regionally accredited institutions in education, physical education, biology, or other appropriate majors; have grade point averages (GPA) of at least 2.75 on a scale of 4.0; and submit transcripts, three letters of recommendation, resumes, and the exercise science application form. Applicants for the exercise science division must obtain approval from a review board in the area of specialization. A student with a GPA of less than 2.75 on a 4.0 scale must take the Graduate Record Examination (GRE) general test. Students with satisfactory scores on the GRE will be considered for admission to the program. Any deficiencies must be made up through course work taken in addition to degree requirements.

Degree Requirements

Students must complete a minimum of 33 hours of graduate courses including 6 hours of a thesis project (THES 698) for the master of science or 3 hours of a research project (RES 697) for the master of arts degree. Students electing THES 698 must take a final oral examination covering the thesis to be given by the thesis committee. In the exercise physiology and biomechanics specializations, the MS is the only degree option.

Clinical Exercise Physiology, 33 hours

Prefix	Number	Short Title	Course Credit Hrs	Program Required
EXSCI	603	Exer Phys 1	3	
EXSCI	611	Res Design	3	
EXSCI	622	Found Adu Pf	3	
EXSCI	623	Prin Ex Test	3	
EXSCI	630	Exer Phys 2	3	
EXSCI	637	Appl Physl	3	
EXSCI	638	Electcard	3	
EXSCI	639	Sem Cr P R	3	
Research requirement				
RES	697	Research Ppr (1-3)		
<i>or</i>				
THES	698	Thesis (1-6)		3-6
3-6 hours from				
EXSCI	633	Sem Ex Sci (2-6)		
EXSCI	634	Mechan Anls (3)		
EXSCI	640	Ex Prev Reha (3)		
EXSCI	698	Fit Cardiac (1-3)		
CPSY	634	Behv Medicin (3)		
EDPSY	641	Statist Meth (3)		
<i>or</i>				
EDPSY	642	Interim Stat (3)		
FCSFN	644	Nut Exer Spt (3)		
HSC	683	Epidemiology (3)		
PHYSL	514	Cardiovsclur (3)		3-6
				33 hrs

Biomechanics

Prefix	Number	Short Title	Course Credit Hrs	Program Required
Core requirement				
EXSCI	611	Res Design	3	
EXSCI	634	Mechan Anls	3	
EXSCI	651	Lab Tech Bio	3	
EDPSY	641	Statist Meth	3	
3-6 hours from				
EXSCI	652	Clinical Bio (3)		
EXSCI	655	Adv Biomechn (3)		
4-6 hours from				
EXSCI	633	Sem Ex Sci (2-6)		4-6
Research requirement				
THES	698	Thesis (1-6)		6
3-9 hours from electives				
EXSCI	603	Exer Phys 1 (3)		

EXSCI	604	Ess Res Trng (3)		
PUMET	111	Statics (3)		
PUMET	213	Dynamics (2)		
BIO	548	Biometry (3)		
EDPSY	642	Interim Stat (3)		
CS	699	Read Honor (3)		3-9
				33-34

Sports Performance

Prefix	Number	Short Title	Course Credit Hrs	Program Required
EXSCI	603	Exer Phys 1	3	
EXSCI	604	Ess Res Trng	3	
EXSCI	634	Mechan Anls	3	
PEP	600	Internship (1-3)	3	
PEP	609	Sp & Ex Psy	3	
PEP	696	Ath Training	3	
FCSFN	644	Nut Exer Spt	3	
12 hours from one area				
THES	698	Thesis (1-6)		6
EXSCI	611	Res Design	3	
Electives				3
RES	697	Research Ppr (1-3)		3
PEP	601	Res Methods	3	
Electives				6
SPTAD	601	Resh Pract	3	
EDPSY	641	Statist Meth	3	
Electives				6
				33 hrs

Exercise Physiology

Prefix	Number	Short Title	Course Credit Hrs	Program Required
Core requirements				
EXSCI	603	Exer Phys 1	3	3
EXSCI	623	Prin Ex Test	3	3
EXSCI	630	Exer Phys 2	3	3
EXSCI	637	Appl Physl	3	3
Directed Electives 6-10 hours from				
EXSCI	633	Sem Ex Sci (2-6)		
CHEM	563	Prn Biochm 1 (3)		
CHEM	564	Prn Biochm 2 (3)		
<i>or</i>				
CHEM	560	Essen Biochm (4)		6-10
Research requirements				

Master of Science, thesis				
9 hours from				
EXSCI	611	Res Design (3)		
THES	698	Thesis (1-6)		
Electives 6 hours from				
EXSCI	634	Mechan Anls (3)		
EDPSY	641	Statist Meth (3)		
<i>or</i>				
EDPSY	642	Interim Stat (3)		
BIO	557	Molecular (4)		
PHYSL	514	Cardiovsclur (3)		
				33–34 hrs

MASTER OF ARTS OR MASTER OF SCIENCE IN PHYSICAL EDUCATION AND SPORT

Admission

Applicants must meet the admission requirements of the Graduate School and complete an application from the Department of Sport and Physical Education. Applicants must also have a bachelor's degree from accredited institutions in education, physical education, biology, or other appropriate majors; grade point average (GPA) of at least 2.75 on a scale of 4.0; and submit a statement of purpose, three letters of recommendation, resume, and other supporting documents.

A student with a GPA of less than 2.75 on a 4.0 scale must take the Graduate Record Examination (GRE) general test. Students with satisfactory scores on the GRE will be considered for admission under probationary status to the program. Any deficiencies must be made up through course work taken in addition to degree requirements.

Degree requirements

All students must complete a minimum of 33 hours of graduate courses. In order to earn a master of science degree these courses must include 6 hours of a thesis project (THES 698). In order to earn a master of arts degree these courses must include 3 hours of a research project (RES 697) except students in sport administration (higher education and public school) and sport management have an additional option that includes 9 hours of internship (SPTAD 698). Students electing RES 697 or THES 698 must make a final oral defense.

Sport Management, 33–36 hours

(Not open to undergraduate majors in business)

Prefix	Number	Short Title	Course Credit Hrs	Program Required
Core requirements				
PEP	692	Sp Superv	3	
SPTAD	603	Ethics Phil	3	
SPTAD	645	Sport Law	3	
SPTAD	676	Sp Admin	3	

Research requirements

Prefix	Number	Short Title	Course Credit Hrs	Program Required
Master of Arts				
Choose one				
<i>Master of Arts, option 1</i>				
SPTAD	601	Resh Pract (3)		
SPTAD	698	Intern Sptad (6–9)		12
<i>Master of Arts, option 2</i>				
PEP	601	Res Methods (3)		
RES	697	Research Ppr (1–3)		6
Master of Science				
PEP	601	Res Methods (3)		
THES	698	Thesis (1–6)		9

Minor in General Foundations of Business

Prefix	Number	Short Title	Course Credit Hrs	Program Required
12 or more hours from				
ACC	501	Fin Acct (3)		
ECON	509	Survey Econ (3)		
FIN	500	Corporation (3)		
MGT	500	Mng Org Beh (3)		
MKG	500	Survey Mrktg (3)		
<i>or</i>				
SPTAD	611	Sp Marketing (3)		12
Students who have credit in any equivalent undergraduate course may substitute the following in the above minor:				
MGT	601	Int Mkg (3)		
MGT	661	Hman Res Mgt (3)		
Directed electives				
BL	560	Survey B L (3)		
PEP	600	Internship (1–3)		
PEP	609	Sp & Ex Psy (3)		
PEP	628	Compar Intsp (3)		
PR	660	Pr Theories (3)		
PR	664	Pr Eval Tech (3)		
SPTAD	605	Org Ad Rec (3)		
SPTAD	606	Aqua Fac Mgt (3)		
SPTAD	607	Aqua Prog (3)		
	611	Sp Marketing (3)		0-3
				33-36 hrs

Sport and Exercise Psychology, 33 hours

Prefix	Number	Short Title	Course Credit Hrs	Program Required
Core requirements				
PEP	609	Sp & Ex Psy	3	
PEP	644	Psy Soc SPA	3	
PEP	660	Psy Ex Hlth	3	
PEP	690	Sp Sociology	3	
AT	577	Psy Inj Rhb	3	
Research requirements				
Master of Arts, research paper				
PEP	601	Res Methods (3)		
EDPSY	641	Statist Meth (3)		
RES	697	Research Ppr (1-3)		9
Master of Science, thesis				
PEP	601	Res Methods (3)		
EDPSY	641	Statist Meth (3)		
THES	698	Thesis (1-6)		12
Directed electives				
ANTH	559	Ethno Method (3)		
CPSY	621	Theo Tch Cou (3)		
EDPSY	603	Human Devel (3)		
EDPSY	640	Methodology (3)		
EDPSY	642	Interim Stat (3)		
EDPSY	646	Tests Meas (3)		
EDPSY	742	Statist Tech (3)		
EXSCI	603	Exer Phys 1 (3)		
PEP	600	Internship (1-3)		
PEP	608	Motor Learn (3)		
PEP	612	Motor Dvlpt (3)		
ACE	610	Psych Coach (3)		
PSYSC	613	Developmentl (3)		
PSYSC	615	Learn Motiva (3)		
PSYSC	616	Percp Cognit (3)		
PSYSC	623	Theor Persnl (3)		
PSYSC	632	Abnormal (3)		6-9

Requirements for graduation (sport and exercise psychology)

- Students must have a minimum of 6 hours of prerequisites in physical education and psychology.
- Students must be a member of one of the professional associations such as the American Alliance for Health, Physical Education, Recreation and Dance (AAHPERD); Association for the Advancement of Applied Sport Psychology (AAASP); or an advisor-approved sport psychology-related organization (e.g., American College of Sports Medicine).

- Students must attend a sport psychology-related conference while registered as a student in the sport and exercise psychology specialization.

Sport Administration, 33 hours

Prefix	Number	Short Title	Course Credit Hrs	Program Required
<i>Choose one option</i>				
Public school option, 33 hours				
Core requirements				
PEP	613	Phys Fit Sem	3	
PEP	692	Sp Superv	3	
SPTAD	603	Ethics Phil	3	
SPTAD	615	Sport Law	3	
SPTAD	676	Sp Admin	3	
Professional requirements				
6 or more hours from				
PEP	594	Tec PE Disab (3)		
PEP	616	Motor Behavr (3)		
PEP	695	Tch Methodol (3)		
EDTEC	550	Curric Tech (3)		
EDSEC	534	Class Mgt (3)		
EDPSY	600	Adv Ed Psy (3)		
EDMUL	660	Mlti Clt Eth (3)		
EDFON	631	Philosphy Ed (3)		
Research requirement				
Master of Arts				
Choose one				
<i>Master of Arts, Option 1</i>				
SPTAD	601	Resh Pract (3)	3	
SPTAD	698	Intern Sptad (6-9)	6-9	12
<i>Master of Arts, Option 2</i>				
PEP	601	Res Methods (3)		
RES	697	Research Ppr (1-3)		6
Master of Science				
PEP	601	Res Methods (3)		
THES	698	Thesis (1-6)		
Directed electives				
PEP	609	Sp & Ex Psy (3)		
PEP	628	Compar Intsp (3)		
PEP	630	Eval P E (3)		
PEP	644	Psy Soc SPA (3)		
PEP	685	P E Curr (3)		
PEP	690	Sp Sociology (3)		
PEP	696	Ath Training (3)		
EDAD	600	Intro Ed Led (3)		
EDAD	630	Humn Resourc (3)		

EDAD	640	Public Rel (3)		
EDAD	686	School Law (3)		
EDAD	687	Legal Aspect (3)		
EDAD	688	Sch Bldg Grs (3)		
EDAD	698	Semnr Theory (3)		
EDFON	631	Philosphy Ed (3)		
PR	660	PR Theories (3)		
PR	664	PR Eval Tech (3)		
SPTAD	605	Org Ad Rec (3)		
SPTAD	606	Aqua Fac Mgt (3)		
SPTAD	607	Aqua Prog (3)		
SPTAD	611	Sp Marketing (3)		0-6
				33 hrs

Higher education option, 33 hours

Prefix	Number	Short Title	Course Credit Hrs	Program Required
Core requirements				
PEP	692	Sp Superv	3	
SPTAD	603	Ethics Phil	3	
SPTAD	615	Sport Law	3	
SPTAD	676	Sp Admin	3	
Research requirements				
Master of Arts				
Choose one				
<i>Master of Arts, option 1</i>				
SPTAD	601	Resh Pract (3)		
SPTAD	698	Intern Sptad (6–9)		12
<i>Master of Arts, option 2</i>				
PEP	601	Res Methods (3)		
RES	697	Research Ppr (1–3)		6
Master of Science				
PEP	601	Res Methods (3)		
THES	698	Thesis (1–6)		9
Directed electives				
PEP	600	Internship (1–3)		
PEP	609	Sp & Ex Psy (3)		
PEP	613	Phys Fit Sem (3)		
PEP	628	Compar Intsp (3)		
PEP	630	Eval P E (3)		
PEP	644	Psy Soc SPA (3)		
PEP	685	P E Curr (3)		
PEP	690	Sp Sociology (3)		
EDAD	600	Intro Ed Led (3)		
EDAD	630	Humn Resourc (3)		
EDAD	640	Public Rel (3)		

EDAD	686	School Law (3)		
EDAD	687	Legal Aspect (3)		
EDAD	688	Sch Bldg Grs (3)		
EDAD	698	Semnr Theory (3)		
EDFON	631	Philosophy Ed (3)		
PR	660	PR Theories (3)		
PR	664	PR Eval Tech (3)		
SPTAD	605	Org Ad Rec (3)		
SPTAD	606	Aqua Fac Mgt (3)		
SPTAD	607	Aqua Prog (3)		
SPTAD	611	Sp Marketing (3)		9-15
				33 hrs

Adapted Physical Education, 33 hours

Prefix	Number	Short Title	Course Credit Hrs	Program Required
Core requirements				
EDPSY	641	Statist Meth	3	
PEP	619	Intro to APE	3	
SPCED	600	Except Child	3	
Professional requirements				
9 hours from one option				
<i>Educational option</i>				
PEP	594	Tec PE Disab (3)		
PEP	612	Motor Dvlpt (3)		
PEP	621	Assess in APE (3)		
Clinical option				
EXSCI	604	Ess Res Trng (3)		
EXSCI	634	Mechan Anls (3)		
PEP	660	Psy Ex Hlth (3)		9
Research requirements				
Master of Arts, research paper				
PEP	601	Res Methods (3)		
RES	697	Research Ppr (1-3)		6
Master of Science, thesis				
PEP	601	Res Methods (3)		
THES	698	Thesis (1-6)		9
Electives (approved by program coordinator)				6-9
				33 hrs

Coaching, 33–36 hours

Prefix	Number	Short Title	Course Credit Hrs	Program Required
Core requirements				
PEP	600	Internship (1–3)	3	
ACE	604	Phy Prep Con	3	
ACE	610	Psych Coach	3	
ACE	612	Grw Dev	3	
ACE	618	Skill Tact	3	
ACE	632	Phil Ethic	3	
ACE	670	Sp Saf Inj	3	
ACE	675	Teach Motiv	3	
ACE	692	Org Admin	3	
Research requirements				
Master of Arts				
PEP	601	Res Methods	3	
Choose one				
ACE	688	Cur Is Co Re (3)		
<i>or</i>				
RES	697	Research Ppr (1–3)		3
Master of Science				
PEP	601	Res Methods (3)		
THES	698	Thesis (1–6)		9
				33-36 hrs

Teacher Education, 33 hours

Prefix	Number	Short Title	Course Credit Hrs	Program Required
Core requirements				
PEP	612	Motor Dvlpt	3	
PEP	613	Phys Fit Sem	3	
PEP	616	Motor Behavr	3	
PEP	630	Eval P E	3	
PEP	685	P E Curr	3	
PEP	695	Tch Methodol	3	
Professional requirements				
6 hours from				
EDTEC	550	Curric Tech (3)		
EDSEC	534	Class Mgt (3)		
EDPSY	600	Adv Ed Psy (3)		
EDMUL	660	Mlti Clt Eth (3)		
EDFON	631	Philosophy Ed (3)		6
Research requirements				
Master of Arts, research paper				

PEP	601	Res Methods (3)		
RES	697	Research Ppr (1-3)		6
Master of Science, thesis				
PEP	601	Res Methods (3)		
THES	698	Thesis (1-6)		9
Directed electives				
PEP	594	Tec PE Disab (3)		
PEP	608	Motor Learn (3)		
PEP	609	Sp & Ex Psy (3)		
PEP	690	Sp Sociology (3)		
EXSCI	634	Mechan Anls (3)		
EDPSY	641	Statist Meth (3)		0-3
				33 hrs

DOCTOR OF PHILOSOPHY IN HUMAN BIOENERGETICS

The doctor of philosophy (PhD) degree in human bioenergetics is designed to prepare students for research careers in exercise physiology. The doctoral degree will require approximately three years to complete and will give students the competencies necessary to deal with biochemical and physiological problems in exercise physiology. It is conducted in cooperation with the Department of Biology.

Admission

Applicants must meet the admission requirements of the Graduate School; have a master's degree from an accredited institution in physical education, biology, or other appropriate majors; have a grade point average (GPA) of 3.2 on a scale of 4.0; complete the Graduate Record Examination (GRE); submit three letters of recommendation; demonstrate interest and ability to conduct independent research; and obtain the approval of the Human Performance Laboratory selection committee.

Degree Requirements

Students must complete a minimum of 90 hours of graduate work including the dissertation and master's degree hours. In addition to the core requirement, one 24-hour cognate or two 15-hour cognates in such related fields as biology, physiology, and chemistry are required. Students must complete the dissertation (DISS 799) for 10–24 hours on research problems that will contribute new knowledge to the field. Candidates will take final oral examinations given by their PhD committees when the dissertation is completed.

Prefix	Number	Short Title	Course Credit Hrs	Program Required
Core requirements				
EXSCI	603	Exer Phys 1	3	
EXSCI	623	Prin Ex Test	3	
EXSCI	630	Exer Phys 2	3	
EXSCI	637	Appl Physl	3	
Cognates				24–30
Dissertation				10–24
Electives				8–13
Master's degree hours (maximum allowed)				30
				90 hrs

Students with two 15-hour cognates will complete 10 elective hours; students with one cognate (24 hours) will complete 15 elective hours.

ATHLETIC COACHING EDUCATION (ACE)

ACE 604 (SPTAD 604) Physical Preparation and Conditioning. (3) Study of the response of physiological systems to training and conditioning, design training and conditioning programs, the effects of nutrition on health and performance, and the use and abuse of drugs in athletes.

Prerequisite: permission of the graduate coaching program coordinator.

Open only to students in coaching specialization.

ACE 610 (SPTAD 610) Psychology of Coaching. (3) Study of the social psychological forces that have profound effects on the interactions of coach and athlete.

Prerequisite: permission of the graduate coaching program coordinator.

Open only to students in coaching specialization.

ACE 612 (SPTAD 612) Growth and Development for Coaches. (3) Study of the physical, social, and emotional development of athletes from youth through adulthood, providing experiences appropriate to the development period.

Prerequisite: permission of the graduate coaching program coordinator.

Open only to students in coaching specialization.

ACE 618 (SPTAD 618) Skills and Tactics for Coaches. (3) Study of competitive tactics and strategies, scouting, practice planning, and some analysis in athletics.

Prerequisite: permission of the graduate coaching program coordinator.

Open only to students in coaching specialization.

ACE 625 (SPTAD 625) Evaluation in Coaching. (3) Includes development of athlete, team, athletic personnel, and program evaluation procedures.

Prerequisite: permission of the graduate coaching program coordinator.

Open only to students in coaching specialization.

ACE 632 (SPTAD 632) Philosophy and Ethics. (3) The study of methods to reinforce and advocate for positive opportunities resulting from sport involvement, values to be developed through sport involvement, ethical conduct, and how to facilitate social and emotional growth of athletes.

Prerequisite: permission of the graduate coaching program coordinator.

Open only to students in coaching specialization.

670 (SPTAD 670) Sport Safety and Injury Prevention. (3) Includes methods for recognizing and ensuring safe playing conditions; role of protective equipment and proper conditioning procedures for injury prevention; management of injuries.

Prerequisite: permission of the graduate coaching program coordinator.

Open only to students in coaching specialization.

ACE 675 (SPTAD 675) Teaching and Motivation for Coaches. (3) The study of the use of effective teaching methods to introduce and refine sport principles and technical skills and to appropriately and effectively motivate athletes.

Prerequisite: permission of the graduate coaching program coordinator.

Open only to students in coaching specialization.

ACE 688 (SPTAD 688) Current Issues in Coaching Research. (3) In-depth study of emerging research in coaching athletic teams. Special emphasis on collecting, analyzing, and applying research from related disciplines for application to future research on coaching.

Prerequisite: permission of the graduate coaching program coordinator; PEP 601.

Open only to students in coaching specialization.

ACE 692 (SPTAD 692) Organization and Administration for Coaches. (3) Studies the development of objective and effective procedures for the evaluation and selection of personnel involved in athletic programs and for program reviews, facilitation of appropriate emergency care procedures, legal responsibilities associated with coaching, and organization required for implementing sport programs.

Prerequisite: permission of the graduate coaching program coordinator.

Open only to students in coaching specialization.

ATHLETIC TRAINING (AT)

AT 577 Psychology of Injury Rehabilitation. (3) Presents the psychological impact of musculoskeletal injury and related factors involved in the rehabilitation process. Includes the sociocultural, mental, emotional, and physical behaviors of patients involved in injury rehabilitation.

Prerequisite: AT 373 or PEP 609.

Not open to students who have credit in AT 477.

EXERCISE SCIENCE (EXSCI)

EXSC I600 Internship in Exercise Science. (1-3) An in-depth practical experience in the application of knowledge and skills related to one of the specialization areas within exercise science.

Prerequisite: permission of the program coordinator.

A total of 3 hours of credit may be earned.

EXSC 603 Exercise Physiology 1. (3) Advanced study of the physiological responses to exercise. Emphasis is on the neuromuscular, metabolic and cardiorespiratory responses.

Prerequisite: permission of the program coordinator.

EXSC 604 Essentials of Resistance Training and Conditioning. (3) Designed to give the scientific basis of resistance training and conditioning and the ability to apply that knowledge with specific training techniques.

Prerequisite: permission of the program coordinator.

EXSC 611 Research Design and Data Analysis for Exercise Science. (3) Focuses on research methods used in exercise science. Emphasizes selecting a research topic, writing, and presenting a research proposal, and using appropriate statistical methods.

Prerequisite: permission of the program coordinator.

EXSC 622 Foundations of Adult Physical Fitness. (3) Introduction to the exercise specialist curriculum. Provides the foundation for acquiring the philosophy, principles, and guidelines for establishing and directing adult fitness programs.

Prerequisite: permission of the program coordinator.

EXSC 623 Principles of Exercise Testing and Interpretation. (3) Involves the study of the theoretical bases for exercise testing and the practical procedures used in pre-exercise screening and exercise testing. Students will learn how to interpret information from pre-exercise screening and apply this to the selection of appropriate exercise test protocols. Interpretation of results from various exercise test protocols will be emphasized using a case-study approach.

Prerequisite: permission of the program coordinator.

EXSC 630 Exercise Physiology 2. (3) Examines the physiological adaptations resulting from aerobic and anaerobic exercise training as well as from environmental stress.

Prerequisite: permission of the program coordinator.

EXSC 633 Seminar in Exercise Science. (2) In-depth study of a selected physiological parameter in relation to exercise and the environment. Specific topics include respiratory physiology, fluid-electrolyte balance, muscle physiology, environment, and exercise: one topic per semester.

Prerequisite: permission of the program coordinator.

A total of 6 hours of credit may be earned, but no more than 2 in any one semester or term.

EXSC 634 Mechanical Analysis of Movement. (3) Applications of the principles of mechanics to the analysis of motor skills; study of methods of execution of various athletic and sporting skills.

Prerequisite: permission of the program coordinator.

EXSC 637 Applied Physiology. (3) A concise summary of physiology as applied to human bioenergetics using an organ-system approach.

Prerequisite: permission of the program coordinator.

EXSC 638 Electrocardiography. (3) A concise summary of cardiac electrophysiology. Identification of normal and abnormal resting and exercise electrocardiograms (ECG). Effects of various cardiac medications on resting and exercise ECG will be discussed.

Prerequisite: permission of the program coordinator.

EXSC 639 Seminar in Cardiac and Pulmonary Rehabilitation. (3) Study of the characteristics of contemporary cardiac and pulmonary rehabilitation programs. Includes an overview of routine diagnostic assessments, exercise prescription principles, and program administration issues associated with these rehabilitation programs. Also includes a review of current research related to cardiac and pulmonary rehabilitation.

Prerequisite: EXSCI 622, 623, 638; permission of the program coordinator.

EXSC 640 Exercise in Prevention and Rehabilitation of Chronic Diseases. (3) Covers the role of regular aerobic exercise and/or resistance training in the prevention and rehabilitation of various chronic diseases through discussions of disease etiology and review of available exercise training literature.

Prerequisite: permission of the program coordinator.

EXSC 651 Laboratory Techniques in Biomechanics. (3) Theoretical and practical applications of data recording methods commonly used in biomechanical analysis.

Prerequisite: permission of the program coordinator.

EXSC 652 Clinical Biomechanics. (3) Biomechanical concepts related to disorders of the skeletal system.

Prerequisite: permission of the program coordinator.

EXSC 655 Advanced Biomechanics. (3) Biomechanical analyses emphasizing research techniques and procedures.

Prerequisite: EXSCI 634; permission of the program coordinator.

EXSC 698 Internship in Fitness and Cardiac Rehabilitation. (1–3) Provides practical experiences in physical fitness and clinical assessments and in exercise programming in both health/fitness and clinical environments.

Prerequisite: permission of the program coordinator.

A total of 3 hours of credit may be earned.

EXSC 699 Independent Study. (1-3) Designed for students who wish to conduct independent study in exercise science.

Prerequisite: permission of the program coordinator.

A total of 3 hours of credit may be earned.

PHYSICAL EDUCATION: PROFESSIONAL (PEP)

PEP 560 Development of Exercise Program for the Older Adult. (3) Characteristics of the older adult and the implications of the aging process for exercise potential. Students will plan, implement, and evaluate a program of activity based upon the special needs of the older adult.

Not open to students who have credit in EXSCI 312.

PEP 594 Teaching Physical Education to People with Disabilities. (3) Understanding of the various physical (orthopedic, muscular-skeletal, cardiovascular, and postural) defects and sensory (hearing and sight) disorders in relation to physical education programming and activities.

PEP 595 Medical Aspects of Sport and Physical Activity. (3) A collection of knowledge, skills, and values that the entry-level certified athletic trainer must possess to recognize, treat, and refer, when appropriate, the general medical conditions and disabilities of athletes and others involved in physical activity.

Prerequisite: AT 370, 371, 372, 373; permission of the instructor.

Open only to athletic training and nursing majors.

PEP 600 Internship in Sport and Physical Education. (1–3) An in-depth practical experience in the application of knowledge and skills related to one of the specialization areas within sport and physical education.

Prerequisite: permission of the department chairperson.

A total of 3 hours of credit may be earned.

PEP 601 Research Methods in Sport and Physical Education. (3) Focuses on research methods employed in sport and physical education. Emphasis placed on selecting a research topic, five-chapter writing format, and presentation of proposal.

PEP 602 Technology Applications in Sport and Physical Education. (3) An introduction to technology and its application in sport and physical education. Emphasis placed on cutting-edge hardware and software available to the practitioner.

PEP 608 Motor Learning. (3) A study of the relationship between principles of psychology and the learning of motor activities. Classroom and laboratory experience.

PEP 609 Introduction to Sport and Exercise Psychology. (3) Introduces the field of sport and exercise psychology, emphasizing the role of psychological phenomena in behavior in sport and physical activity settings and how participation in sport and physical activity influences the psychological characteristics of the individual.

PEP 612 Motor Development. (3) Lifespan human motor development emphasizing major theoretical viewpoints, research methodology, and conditions affecting motor development including physical growth, physiological change, perceptual change, cognitive change, sociocultural practices, and intervention.

PEP 613 Physical Fitness Seminar. (3) The role of physical fitness in society today with emphasis on scientific principles and methods for developing physical fitness. Promotion and future directions of physical fitness programs.

PEP 616 Developing Motor Behavior: Theory and Practice. (3) Focus on the theory and practice of movement skill learning with emphasis on Laban's movement analysis framework, stages of learning, teaching styles, and application of research findings to the instructional setting.

PEP 619 Introduction to Adapted Physical Education. (3) Designed to expand graduate students' knowledge in the area of adapted physical education activity. Framed around the national standards, or APENS, and prepares students to take the national certification exam.

PEP 620 Physical Education Workshop. (1–8) Workshop offerings: physical education and sports, athletic training, officiating and judging, athletic administration, and specialized coaching.

A total of 8 hours of credit may be earned.

PEP 621 Assessment in Adapted Physical Education. (3) Students will review how to establish appropriate program placement in the least restrictive environment (LRE) for students with disabilities in physical education. Students will administer, interpret, plan, and develop appropriate programming using their assessment data. Students will develop a top-down plan based on their assessment results.

PEP 628 Comparative Physical Education and Sport. (3) A comparative analysis of physical education and sports of world regions—aims, objectives, and programs; the involvement of national governments in sports and physical education of selected countries.

PEP 630 Evaluation in Physical Education. (3) Designed to acquaint learners with various types of performance-based assessments and show how they can be integrated into the curriculum to enhance student learning.

PEP 644 Psycho-Social Processes of Sport and Physical Activity. (3) Focuses on dynamic nature and function of sport teams and physical activity groups. Topics include group structure, norms, and roles; motivation and climate; and group/team identity, cohesion, and leadership. Introduces concepts, principles, theories, and practical applications.

PEP 660 Psychology of Exercise and Health. (3) Provides an overview of psychological and social issues related to exercise and health behavior. Emphasizes understanding concepts, principles, and theories, and their application in the practice of promoting and supporting regular exercise participation and positive health behaviors.

PEP 685 Curriculum Development in Physical Education. (3) Curriculum development in physical education focusing on current theories and models including conditions affecting the curriculum, proper

scope and sequence, scheduling, implementation and change theories, and curriculum evaluation techniques.

PEP 690 Sport Sociology. (3) An insight into America's heritage of sports and physical education and how this and various cultural and social institutions influence contemporary sports in the United States.

PEP 692 Sport Supervision. (3) Development of supervision policies and procedures for use with coaches and other athletic personnel.

PEP 695 Current Teaching Methodology in Physical Education. (3) The sequential experiences of public school children, special problems encountered, and methods for improving the effectiveness of teaching physical education.

PEP 696 Advanced Techniques in Athletic Training. (3) Study in the administration of and techniques involved in athletic training practice.

PEP 699 Independent Study. (1–3) Designed for students who wish to conduct independent study in physical education.

Prerequisite: permission of the director of physical education graduate studies through formal petition.

A total of 3 hours of credit may be earned.

SPORT ADMINISTRATION (SPTAD)

SPTAD 601 Research for the Sport Practitioner. (3) Examination of research related to sport studies. Emphasis placed on the critical evaluation of research and its applicability to practice.

SPTAD 603 Seminar in Ethics and Philosophy in Sport Administration. (3) The ethical and philosophical concepts that determine the direction and reputation of amateur and professional sport programs. Major current issues and problems in sports will be studied.

Prerequisite: permission of the sport studies program director.

SPTAD 605 Organization and Administration of Recreation Programs. (3) Study of the general functions and overall operations of recreational programs, services, and facilities.

SPTAD 606 Aquatic Facility Management. (3) An investigation of elements involved in managing an aquatic facility. Topics discussed include management strategies, budgeting, programming, staffing, safety, and professional development.

SPTAD 607 Aquatic Programming. (3) A study of aquatic special events and daily programs. Includes discussion of staff budgeting, safety, marketing, registration, and organization of events.

SPTAD 611 Sport Marketing. (3) The application of the principles of promotion and marketing to the sport and fitness industry including the area of professional sports, corporate fitness, college/high school athletics, clubs, and resorts.

SPTAD 615 Sport Law. (3) The study of legal issues related to all aspects of amateur sports and the professional sports industry.

SPTAD 676 Sport Administration. (3) Administrative theory and guidelines for the operation of sports programs at the interscholastic and intercollegiate levels. An overview of changing emphasis in the

operation of sports programs, administrative theory as the framework for decision making, a look at athletics in current societal thought, and consideration of sound practices in the various areas of athletic administration.

SPTAD 698 Internship in Sport Administration. (6-9) A field assignment with an appropriate sport administration organization or agency.

Prerequisite: permission of the coordinator of graduate studies in sport and physical education; completion of 18 credits in the program.

TECHNOLOGY

www.bsu.edu/technology

Applied Technology Building, Room 131, 765-285-5642

Chairperson: Ray Shackelford

Graduate Advisors: Sam Cotton, James Flowers, Ed Lazaros, Mary Annette Rose, Ray Shackelford, Richard Seymour

Graduate Faculty: Chen, Cotton, Flowers, Jones, Lazaros, Leduc, Rose, Seymour, Shackelford, Spotts, Xu, Yang

PROGRAMS

Master of Arts (MA) in technology education and in career and technical education; an alternative route to a secondary license in technology education

MASTER OF ARTS IN TECHNOLOGY EDUCATION

Designed for students whose educational goals are to increase and update their knowledge and skills in technology education. The degree requires 30 graduate hours with courses in technology education, research, and directed electives. Students select a thesis or non-thesis option. This program may be completed entirely through distance education.

Admission

Applicants must meet the admission requirements of the Graduate School.

Prefix	Number	Short Title	Course Credit Hrs	Program Required
Professional Courses				
ITEDU	635	Impl Tech Ed	3	
ITEDU	690	Hist Tech Ed	3	
ITEDU	691	Mat Tch T Ed	3	
ITEDU	694	Curric Devel	3	
ITEDU	698	Seminar T Ed	3	
Research requirements 3-9 hours from				
ITEDU	699	Rsrch Tch Ed (3)		
THES	698	Thesis (1-6)		3-9

Directed electives (with approval of program advisor)	6–12
	30 hrs

ITEDU 699 is a program requirement and a prerequisite for those seeking the thesis option.

MASTER OF ARTS IN CAREER AND TECHNICAL EDUCATION

The program is designed for students who wish to acquire an advanced level teacher license in career and technical education or to add a career and technical area to a current teacher license of another area. The degree is also designed for post-secondary educators of trade-related programs or persons in industry seeking a program that includes training techniques, safety, and technical courses. This program may be completed entirely through distance education.

Admission

Applicants must meet the admission requirements of the Graduate School.

Prefix	Number	Short Title	Course Credit Hrs	Program Required
Professional Courses: must complete at least 9 hours				
ITEDU	550	CTE Stu Orgn (3)		
ITEDU	552	Strt Mat CTE (3)		
ITEDU	568	Prin CTE Ed (3)		
ITEDU	569	Org Crd CTE (3)		
ITEDU	696	Cond Coop Ed (3)		
ITMFG	560	Occp Safety (3)		9-18
Research requirements 3–9 hours from				
ITEDU	699	Rsrch Tch Ed (3)		
THES	698	Thesis (1-6)		3-9
<i>Directed electives (with approval of program advisor)</i>				3–18
				30 hrs

All professional courses in the CTE program are required for Indiana Career and Technical Education teacher license in a trade and industrial program area. ITEDU 699 is a program requirement and a prerequisite for those seeking the thesis option.

ALTERNATIVE ROUTE TO A SECONDARY LICENSE IN TECHNOLOGY EDUCATION

Prefix	Number	Short Title	Course Credit Hrs	Program Required
ITEDU	635	Impl Tech Ed	3	
ITEDU	691	Mat Tch T Ed	3	
ITEDU	694	Curric Devel	3	
ITEDU	697	Prob Tech Ed (1-3)		3
ITMFG	508	Prob in CADD	3	
Directed elective				3
				18 hrs

Open only to Indiana-licensed educators.

DIRECTOR OF CAREER AND TECHNICAL EDUCATION

Initial Practitioner License Requirements

Designed for students who seek a Director of Career and Technical Education license required for administering career programs and facilities. This addresses Indiana license requirements.

Admission

Applicants must meet the admission requirements of the Graduate School.

Who can qualify?

Candidates must meet one of the following:

1. A career and technical proficient practitioner license. A workplace specialist proficient practitioner instructional license with a master's degree or higher.
2. A standard license with two (2) years of full-time teaching experience in an accredited school in the grade level and a vocational education content area listed on the license. A proficient practitioner license as a superintendent or building level administrator.
3. A provisional license with two (2) years of full-time teaching experience in an accredited school in the grade level and a vocational education content area listed.
4. A Workplace Specialist proficient practitioner instructional license with a master's degree or higher.
5. An Occupational Specialist II or III with a master's degree or higher and two (2) years of full-time teaching experience in an accredited vocational school in the grade level and vocational education content area listed on the license.
6. A proficient practitioner license as a superintendent or building level administrator.
7. A proficient practitioner license as a school counselor and any instructional proficient practitioner license.
8. A standard or provisional secondary administration and supervision license with two (2) years of full-time experience as superintendent or assistant superintendent in an accredited P-12 school district.
9. A standard or provisional secondary administration and supervision license with two (2) years of full-time experience as a principal or assistant principal in an accredited junior high school, middle school, or high school.
10. A standard or provisional school counseling license with two (2) years of full-time experience as a school counselor and any standard or provisional teaching license with two (2) years of full-time teaching experience as a teacher in an accredited K-12 school.
11. A valid proficient practitioner business education or technology education instructional license.
12. A standard or provisional business education or industrial technology license with two (2) years of full-time experiences as a business education or industrial technology teacher in an accredited junior high school, middle school, or high school.

Also required:

- Successful completion of the School Leadership Licensure Assessment (SLLA) test or proof of a valid administrative license.
- Verified valid CPR certification through a State approved training program.

Prefix	Number	Short Title	Course Credit Hrs	Program Required
EDAC	631	Adult & Comm (3)		
<i>or</i>				
EDAC	632	Org Adult Ed (3)		
EDAD	600	Intro Ed Led (3)		
EDAD	685	Fiscal Mangt (3)		
EDAD	692	In Serv Wksp (6)		
SPCED	637	Or Adm Sp Ed (3)		18
3 hours from				
BED	582	Imp Inst Mkg (3)		
BED	625	Prob Bus Ed (3)		
FCS	692	FCS Ed Prog (3)		
ITEDU	568	Prin CTE Ed (3)		3
3 hours from				
BED	593	Phil Org Adm (3)		
ITEDU	569	Org Crd CTE (3)		3
3 hours from				
BED	592	Lab/Coop Pgm (3)		
BED	594	Survey CTE (3)		
ITEDU	552	Strt Mat CTE (3)		
ITEDU	696	Cond Coop Ed (3)		3
3 hours from				
EDPSY	640	Methodology (3)		
FCS	697	Res Methods (3)		
ITEDU	699	Rsrch Tch Ed (3)		3
				30 hrs

INDUSTRY AND TECHNOLOGY: DEPARTMENT (ITDPT)

ITDPT 530 Statistical Quality Control. (3) Emphasis on application of statistics to quality control. Includes hypothesis testing, statistical process control, measurement systems analysis, tolerance analysis, multivariate analysis, sampling plans, and review of current quality standards.

ITDPT 563 Design of Experiments. (3) Extensive study of experimentation in organizational research. Includes, but is not limited to, single-factorial, multi-factorial, robust design, and Design for Six Sigma (DFSS).

Prerequisite: ITDPT 530.

ITDPT 604 Six Sigma Concepts. (3) Introduces the tenets of Six Sigma and Lean performance. Uses statistics to develop analytical and problem solving skills. Topics include: project planning and time management, tactical and strategic planning, process mapping, survey development and Chi-square analysis, and other advanced Six Sigma and Lean tools.

ITDPT 610 Six Sigma for Service. (3) Six Sigma for research focused on service organizations such as government, transactional, and health care; and service functions of other organizations.

Prerequisite: ITDPT 604.

ITDPT 620 Six Sigma Capstone Project. (3) As a capstone experience, students will be required to successfully complete a Six Sigma Black Belt project during their final semester.

Prerequisite: permission of the instructor and FIN 500 or MBA 661.

Technology: Education (ITEDU)

ITEDU 510 Technology: Use and Assessment. (3) Analyzes the use and assessment of technology. Topics include usability testing, user surveying, technology assessment techniques, environmental impact assessment, and forecasting.

ITEDU 550 Career and Technical Education Student Organizations. (3) Emphasizes the development, operation, and evaluation of career and technical education student organizations, with a concentration on co-curricular organizations.

ITEDU 552 Strategies and Materials for Career and Technical Education. (3) A study of resources, instructional materials, and strategies for career and technical education programs.

ITEDU 564 Practicum in Technology Education for Elementary Grades. (3) Study and field practice of the philosophy, psychology, and objectives of integrating technology education in the elementary and special education classes. Students develop and integrate technology-based curricula in the classroom. Strategies related to classroom organization, physical planning, and tool and material acquisition are discussed and implemented. 10 to 20 hours spent in contact with children.

ITEDU 568 Principles and Philosophy of Career and Technical Education. (3) Principles and philosophies of career and technical education programs are investigated. The role of legislation is analyzed.

Not open to students who have credit in ITEDU 690.

ITEDU 569 Organization and Coordination of Career and Technical Education. (3) Examines organizational structures, responsibilities, programs, and facilities dedicated to career and technical education. Current legislation directly impacting these programs will also be examined.

ITEDU 600 Special Topics. (1–3) The title and description are determined for each offering, allowing students to engage in relevant investigations in the changing field of technology.

Prerequisite: permission of the department chairperson.

A total of 9 hours of credit may be earned, but no more than 3 in any one semester or term.

ITEDU 635 Implementing Technology Education. (3) A laboratory-based experience that emphasizes the implementation of technology education.

ITEDU 636 Implementing Communication Technology Education. (3) A study of the concepts and strategies used in teaching communication technology classes (grades 6–12). Emphasizes graphic, electrical, visual, acoustic, and mass-communication systems and their effects on people and society.

ITEDU 637 Implementing Construction Technology Education. (3) A study of the concepts and strategies used in teaching construction technology classes (grades 6–12). Emphasizes designing and constructing structures and community planning activities and their effects on people and society.

ITEDU 638 Implementing Manufacturing Technology Education. (3) A study of the concepts and strategies used in teaching manufacturing technology classes (grades 6–12). Emphasizes industrial materials, processes, and management systems; their application to industrial enterprises; and their effects on people and society.

ITEDU 639 Implementing Transportation Technology Education. (3) A study of the concepts and strategies used in teaching transportation technology classes (grades 6–12). Emphasizes the design, use, and effects of transportation systems and related energy-conversion techniques in modern society.

ITEDU 690 History and Philosophy of Technology Education. (3) An examination of the historical development and philosophical foundations of technology education.

Not open to students who have credit in ITEDU 568.

ITEDU 691 Strategies and Materials for Teaching Technology Education. (3) A study of individualized and group teaching and learning strategies and the selection, production, and use of instructional materials to support them.

ITEDU 694 Curriculum Development in Technology Education. (3) A review of the philosophical, sociological, and psychological bases for curriculum analysis and development in technology education.

ITEDU 696 Coordinating and Conducting Cooperative Education Programs. (3) Examines the regulations and guidelines governing the coordination of cooperative education programs and unique methods and strategies used to facilitate work-based learning.

ITEDU 697 Problems in Technology Education. (1–3) Independent study in advanced industrial or professional techniques.

Prerequisite: permission of the department chairperson.

A total of 3 hours of credit may be earned.

ITEDU 698 Seminar in Technology Education. (3) An exploration of current problems and issues in technology education.

ITEDU 699 Research in Technical Education. (3) A review of existing research in technology education and career and technical education with reference to its scope and usefulness. Design and interpretation of individual or group research is required.

INDUSTRIAL TECHNOLOGY: MANUFACTURING (ITMFG)

ITMFG 508 Problems in Computer-Aided Design and Drafting. (3) Emphasizes two- and three-dimensional modeling applications in design and manufacturing using a CAD system.

Prerequisite: a technical drawing course or permission of the department chairperson.

ITMFG 526 Advanced Plastics Technology. (3) Individual investigation of problems and new developments in the plastics (synthetics) industry. Problem solving, research, and experimentation with product design and associated mold making is encouraged. Prior experience in plastics is essential.

Prerequisite: ITMFG 225 or the equivalent.

ITMFG 530 Problems in Metals. (3) Intensive study of special concerns of metal processing not covered in other courses. Manufacturing is emphasized. Problem solving, research, and experimentation are encouraged.

ITMFG 560 Occupational Safety and Health. (3) Study of the practices used to ensure a safe and healthy environment for industrial and educational sectors. Examines hazard recognition and correction and the impact of safety and health regulating agencies.

ITMFG 563 Manufacturing Operations. (3) Focuses on activities associated with the design and installation of industrial production methods and facilities. Laboratory activities offer opportunities to perform basic tasks associated with developing a production system.

ITMFG 570 Advanced Studies in Electronics. (3) Individual study of major problems in electronics. Applies new techniques and developments to these problems and experiments.

ITMFG 580 Advanced Studies in Graphic Arts. (3) Individual study of new developments in graphic arts. Provides opportunities to study new developments in light-sensitive materials, computer applications in graphic arts processes, and current industry trends.

ITMFG 590 Developing Human Resources. (3) Activities, roles, and competencies of human resource developers in industrial organizations. Emphasizes activities that allow for the development of selected HRD competencies.

FISHER INSTITUTE FOR WELLNESS AND GERONTOLOGY

www.bsu.edu/wellness

Health and Physical Activities Building, PL 225, 765-285-8259

Interim Director: Kathy Segrist

Program Director for Wellness Management: Jane Ellery

Program Director for Gerontology: Kathy Segrist

Graduate Faculty: Ellery, Haber, Segrist

The Fisher Institute for Wellness and Gerontology sponsors two distinct but related programs in Wellness Management and Applied Gerontology. Each program has academic, research, and service components. Academic programs include master's degrees in wellness management and a master's degree, an undergraduate minor, and certificate programs in applied gerontology. Services include wellness residence halls, faculty and staff health assessment and screening, and campus and community health screening and educational programs. One such community educational program is the annual Kirkpatrick Memorial Conference on Aging. Graduate students assist in the provision of all services offered through the institute.

The research mission of the institute is to assist corporations, community agencies, and health care facilities in designing, implementing, and evaluating programs dedicated to lifespan wellness. Major research topics of the institute include development and investigation of a multidimensional systems model for lifespan wellness and the application of the Ball State Model for Wellness in assessment of individuals, worksite programs, health care facilities, and community organizations. Research interests also include effective techniques for reducing health care costs, motivating people to practice wellness-related activities, and the effects of health behaviors on longevity, morbidity, and mortality.

In general, the institute is concerned with the processes of maintaining well being for people, organizations, communities, and societies. Both faculty and student research are related to this broad focus on keeping people well and developing techniques for achieving higher levels of functioning across the lifespan.

Students receiving degrees in wellness management and/or applied gerontology will enter a rapidly expanding job market for wellness and gerontology professionals. Typical work settings include corporations, hospitals, YMCAs, entrepreneurial businesses, health care facilities, governmental agencies, and educational institutions. Graduates will be challenged to solve the difficult problems of meeting the wellness needs of people and organizations in an aging society. The challenges and opportunities are limited only by the energy, talent, and imagination of each graduate.

PROGRAMS

Master Of Arts (MA) And Master Of Science (MS) In Wellness Management; Master Of Arts In Applied Gerontology

MASTER OF ARTS IN APPLIED GERONTOLOGY

Admission

Applicants must meet the admission requirements of the Graduate School. A grade point average (GPA) of 3.0 on a scale of 4.0, a combined score of 900 on the verbal and quantitative sections of the Graduate Record Examination (GRE), and/or approval of the program director for gerontology are required for acceptance into the program.

Degree Requirements

The minimum requirement for the degree is 36 hours, including a core of gerontology courses, a research experience, and electives in related areas.

Prefix	Number	Short Title	Course Credit Hrs	Program Required
15 hours from				
GERON	535	Aging Commun	3	
GERON	605	Aging Well	3	
GERON	630	Hlth Wel Age	3	
GERON	635	Adp Late Lif	3	
GERON	640	Servc Learn	3	
3-9 hours from				
EDPSY	641	Statist Meth (3)		
WELNS	670	Well Res Dgn (3)		
RES	697	Research Ppr (1-3)		
THES	698	Thesis (1-6)		3-9
12-18 hours from				
Electives either from Track 1 or Track 2				
<i>Track 1—Aging well electives, 12-18 hours</i>				
GERON	540	Women Aging (3)		
GERON	598	Seminr Geron (3)		
GERON	610	Public Policy (3)		
GERON	620	Guid Lif Rev (3)		
GERON	625	Ch Heal Beh (3)		
GERON	641	Pract Applic (3)		
GERON	699	Intern Geron (1-6)		

FCSFN	652	Geriatr Ntr (3)		
PHYSL	515	Physio Aging (3)		
WELNS	680	Eval Hlt Wel (3)		12-18
<i>Track 2—Aging management electives, 12–18 hours</i>				
GERON	515	Tech Aging (3)		
GERON	598	Seminr Geron (3)		
WELNS	605	Wlns Mgt Adm (3)		
WELNS	645	Soc Mkt Wlns (3)		
WELNS	665	Technology (3)		
WELNS	680	Eval Hlt Wel (3)		
ACC	501	Fin Acct (3)		
BL	560	Survey B L (3)		
ECON	509	Survey Econ (3)		
ECON	548	Health Econ (3)		
FIN	500	Corporation (3)		
MGT	500	Mng Org Beh (3)		
MKG	505	Survey Mrktg (3)		12-18
				36 hrs

The course work for the degree in applied gerontology may be completed in one year or it may be combined with another degree program in order to obtain a double major. For example, a student in an MA program in adult education, biology, counseling, physical education, wellness management, etc. may take the core course requirement in gerontology and then apply related electives and internship experience to a degree in applied gerontology.

The master's degree in applied gerontology is an interdisciplinary degree that provides the student with a broad-based overview of aging, as well as more focused training in a selected area of study. Faculty from wellness, health sciences, educational psychology, sociology, counseling, physical education, nutrition, nursing, and other disciplines teach a variety of courses on special issues in aging and in serving an older population.

Educational programs are focused on three levels: exposure to information about processes of aging and the needs of an aging society for a wide variety of students and the general public; proficiency training of professionals and other service providers who are involved with serving older adults; and the development of expertise for professionals who are planning to specialize in geriatric services.

Research programs center on two aspects of gerontology: interdisciplinary studies of the processes of aging and applied research regarding the delivery of services and program evaluation.

The faculty provide consultation, training, and other resources for agencies serving an older clientele and for community groups of older adults.

In addition to the MA degree in applied gerontology, several other options are available for the study of gerontology, including an undergraduate minor, a graduate minor, an undergraduate certificate, and a graduate certificate. A curriculum advisor is available to discuss these options with any interested student.

MASTER OF ARTS (MA) AND MASTER OF SCIENCE (MS) IN WELLNESS MANAGEMENT

Admission

Applicants must meet the admission requirements of the Graduate School and have a grade point average (GPA) of 3.0 on a 4.0 scale, Graduate Record Examination (GRE) score of at least 1000 (quantitative and verbal), and the approval of the director of the Fisher Institute for Wellness and Gerontology. Students who do not meet these standards may be admitted on probation at the discretion of the director. Students

will be removed from academic probation upon successful completion (GPA of 3.0 or higher) of 9 semester hours of approved course work.

As a prerequisite for entry into the program, all students without undergraduate course work in allied health will be required to complete up to three basic undergraduate courses in health-related disciplines. All students will be required to participate in selected university and community wellness activities as part of the wellness management major.

Students who have not completed an undergraduate major or minor in business and an undergraduate major or minor in a health-related discipline will be required to complete graduate course work in these areas in addition to the core course work. Students without an undergraduate major or minor in business are expected to complete the minor in general foundations of business for wellness majors.

Students without an undergraduate major or minor in an approved allied health field will be required to complete at least 9–12 hours in an approved graduate minor or specialization. Typical areas of specialization include, but are not limited to, applied gerontology, adult education, community education, health science, pre-counseling psychology, exercise leadership, and family and consumer sciences (nutrition).

Degree Requirements

MASTER OF ARTS IN WELLNESS MANAGEMENT

The requirement for the degree is 36 semester hours for students who have undergraduate majors or minors in business and a supporting undergraduate major or minor in allied health. Students entering the program without this background will be required to complete a minor in general foundations of business through the Miller College of Business and a 12-hour allied health minor. All students complete the wellness core.

Prefix	Number	Short Title	Course Credit Hrs	Program Required
Core courses				
WELNS	605	Wlms Mgt Adm	3	
WELNS	630	Hlth Pro Mgt	3	
WELNS	650	Foundations	3	
WELNS	660	Issues	3	
WELNS	670	Well Res Dgn	3	
WELNS	698	Intern Well	6	
3 hours from				
RES	697	Research Ppr (1-3)		
HSC	687	Stat Mth HSc (3)		
EDPSY	641	Statist Meth (3)		3
Directed electives				12
				36 hrs

MASTER OF SCIENCE IN WELLNESS MANAGEMENT

The requirement for the degree is 39 semester hours for students who have undergraduate majors or minors in business and a supporting undergraduate major or minor in allied health. Students entering the program without this background will be required to complete a minor in general foundations of business through the Miller College of Business and a 12-hour allied health minor. All students complete the wellness core.

Prefix	Number	Short Title	Course Credit Hrs	Program Required
Core courses				
WELNS	605	Wlms Mgt Adm	3	
WELNS	630	Hlth Pro Mgt	3	
WELNS	650	Foundations	3	
WELNS	660	Issues	3	
WELNS	670	Well Res Dgn	3	
WELNS	698	Intern Well	6	
THES	698	Thesis (1-6)		6
Directed electives				12 hrs
				39 hrs

The master's degree in wellness management is an interdisciplinary degree that coordinates the university's strong resources to give students comprehensive training in wellness. Faculty from physical education, food and nutrition, psychological sciences, health science, and the Miller College of Business combine knowledge and skills in a well-rounded and challenging curriculum.

MINOR IN GENERAL FOUNDATIONS OF BUSINESS

For wellness majors only. Students must have an approved program of study on file in the Miller College of Business.

Prefix	Number	Short Title	Course Credit Hrs	Program Required
ACC	501	Fin Acct	3	
ECON	509	Survey Econ (3)		
<i>or</i>				
ECON	548	Health Econ (3)		3
MBA	601	Entr Ldrship	3	
MGT	500	Mng Org Beh	3	
MKG	505	Survey Mrktg	3	
Students who have credit in any equivalent undergraduate course may substitute the following:				
BL	560	Survey B L	3	
MGT	640	Entrep Innov	3	
MGT	661	Hman Res Mgt	3	
FIN	500	Corporation	3	

All substitutions will be approved by the Miller College of Business.

GERONTOLOGY (GERON)

GERON 515 Technology in Aging. (3) Explores the impact of assistive and other technologies on the lives of aging adults. Identification of technologies, utilization by and for aging adults, and implications for service delivery will be explored.

Not open to students who have credit in GERON 415.

GERON 535 Aging in Communities. (3) Focus on community aging as it applies to all the dimensions of life: biological, physiological, sociological, psychological, political, occupational, economical, educational, familial, and societal.

Not open to students who have credit in GERON 435.

GERON 540 Women and Aging. (3) Typical lifespan occurrences that largely impact women such as elder caregiving, familial systems maintenance, widowhood, health changes, and economic issues will be explored. Historical and theoretical perspectives; introduction to health, psychological and living issues; introduction to racial and ethnic diversity; and social relationships will also be covered.

Not open to students who have credit in GERON 440.

GERON 592 Workshop in Applied Gerontology. (1–10) Preservice or inservice education in selected topics in applied gerontology using a workshop format of concentrated study, presentations, demonstrations, and practice. Specific content will depend upon the problem or special interest with which the workshop is concerned. Learners are encouraged to work out a program of personal study with help from other workshop participants and resource persons. Prerequisite: permission of the director. Credit may be applied to a major or minor in applied gerontology only with permission of the program director for gerontology.

A total of 10 hours of credit may be earned in this course or in combination with GERON 392.

GERON 598 Topical Seminar in Applied Gerontology. (3–6) Individual and group investigation of topics, problems, or issues in applied gerontology with discussion by all seminar participants under the guidance of the instructor.

Credit may be applied to a major or minor in applied gerontology only with permission of the program director for gerontology.

A total of 6 hours of credit may be earned in this course or in combination with GERON 398.

GERON 605 Aging Well: A Systems Approach. (3) An application of the Fisher Institute Wellness Model to the processes of aging well. Seven dimensions of wellness will be examined, highlighting the potential for successful aging. Emphasizes mid-life to late-life challenges and how the principles of systems theory deepen understanding of wellness and aging.

GERON 610 Public Policy and Aging. (3) Emphasis on the governmental infrastructure that facilitates the development and implementation of policy that impacts aging Americans and the public and private response to policy initiatives.

GERON 615 Wellness and Aging: Practical Applications for Health Professionals. (3) Evidenced-based wellness and aging content for health professionals. Experience leading intergenerational discussions and conducting health contracts with older adults.

GERON 620 Guided Life Review. (3) Learn the skill of helping older adults produce written components of a life review. These components include family of origin, marriage, children, grandchildren, work career, major historical events, retirement, health, meaning and purpose, aging and death, and major turning points.

GERON 625 Changing Health/Wellness Behaviors. (3) Focus on helping adult clients increase exercise, improve nutrition, stop smoking, and manage stress using the instructor's field-tested health contract/calendar technique. Also includes theory, assessment, support groups, cultural competency, health materials, and proposal writing. Special emphasis on older adults.

GERON 630 Health, Wellness, and Aging. (3) An overview of the aging process and old age with specific emphasis on health. The range of topics includes exercise, nutrition, clinical preventive services, health behavior, mental health, professional–client communication, model programs, diversity, and public policy.

GERON 635 Aging Well: Adaptations in Later Life. (3) Examination of the adaptations of the last half of the life span (i.e. ages 50–100+). Content includes the various theories of aging, multidimensional perspectives on changes in health and well-being, and strategies for coping with the change. Emphases are placed on developmental process, adaptations, and mental/emotional changes as people age.

Prerequisite: GERON 605.

GERON 640 Service Learning in Gerontology. (3) Students will take a leadership role in a community-based project and apply research, theory, knowledge, and skills.

Prerequisite: GERON 605 and at least one additional core course.

GERON 641 Practical Applications of Gerontological Programming. (3) Students will focus on applying research, knowledge, and skills to deliver gerontological programming. Techniques for delivery and management of gerontological programs and evaluating effectiveness of programs/interventions will be examined.

Prerequisite: GERON 605, 640, and one additional core course.

GERON 699 Internship in Gerontology. (1–6) Experience in one or more of the agencies, institutions, or programs now providing gerontological services or otherwise related to gerontology. Carried out under the joint supervision of the program director and a practitioner representing the agency, institution, or program. A student chooses the setting with guidance from a faculty sponsor and approval of the practitioner.

Prerequisite: permission of the program director.

A total of 6 hours of credit may be earned.

WELLNESS (WELNS)

WELNS 605 Wellness Management Administration. (3) Improving the efficiency of administrative tasks and communication practices can greatly impact wellness management practice. This class focuses on computer skills and technologies important for wellness program administration, including developing budgets, communicating effectively, and writing and administering grants and contracts.

During this course, students assist in the administrative functions of community-based, professionally led wellness management projects.

WELNS 630 Wellness Programming for Health and Productivity Management. (3) Examination of Health and Productivity Management (HPM) as a wellness program approach in the workplace. Techniques for delivery and management of HPM programs and cost effectiveness of interventions will be examined.

WELNS 635 Wellness Coaching. (3) This course introduces theory, skills, and techniques related to guiding groups and individuals through meaningful lifestyle changes by emphasizing motivational strategies and behavioral and holistic practices. Features include lifestyle assessments, in-depth wellness and lifestyle change models, basic interviewing and referral skills, and contact with leaders in the wellness field.

WELNS 640 Survey of Wellness Policy, Advocacy, and Ethics. (3) Understanding political and ethical issues impacting well-being plays a role in the success of both individual and system-level changes that lead to more holistic, health-promoting lifestyles. This class introduces wellness program managers and other health professionals to important issues that need to be considered during decision-making processes.

WELNS 645 Social Marketing in Wellness Management Practice. (3) Social marketing is the use of marketing principles and a customer-driven approach when developing health behavior change strategies. This class focuses on helping wellness managers and other health professionals “think like a marketer” as they design, implement, and evaluate wellness-related programs.

WELNS 650 Foundations of Wellness. (3) First-year introduction to a wide variety of concepts and foundational thinking associated with the notion of wellness. Encourages integrative thinking about the meaning and application of wellness in life and in relation to careers as managers in the wellness environment.

WELNS 655 Practical Applications for Worksite Wellness. (3) Focuses on applying research, knowledge, and skills to manage the wellness process.

WELNS 660 Critical Issues in Worksite Wellness. (3) An exploration of critical wellness management issues covering organizational, programmatic, and emerging events affecting wellness and health promotion at the work site.

WELNS 665 Technology and Media for Wellness Managers. (3) Provides wellness professionals with the basic skills to initiate, maintain, and expand technology and media into daily business. Emphasizes obtaining resources, information, skills, and strategies through practical application.

WELNS 670 Interdisciplinary Wellness Research Design. (3) An introduction to basic research design and its application to wellness programs. Emphasizes the interdisciplinary nature of research from wellness-related disciplines and focuses on creating research hypotheses, design, data collection, and analysis.

WELNS 675 Alternative and Complementary Therapies. (3) A graduate seminar focusing on a cultural, philosophical, and intellectual analysis of a selective number of alternative, complementary “medical” delivery systems including their history. Key concepts, methods of delivery, effectiveness, and supportive research data will be reviewed emphasizing their potential for supporting wellness.

WELNS 680 Evaluating Health and Wellness Initiatives. (3) Provides an introduction to logic-model driven program evaluation. The knowledge and skills developed will help participants systematically examine health and wellness initiatives, design data collection methods, analyze information gathered, and generate reports that can be used to improve program services and assess program outcomes.

WELNS 697 Special Studies in Wellness. (1–3) Problems of special interest in wellness. Work under the direction of a staff member. May include one or more of the following: experimental work, attendance in special classes, wide reading, and development of special techniques or skills in wellness management.

Prerequisite: permission of the academic coordinator or the director of the institute.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

Management experience will be offered at the work site under the joint supervision of a university faculty member and a wellness director responsible for program management.

Prerequisite: completion of the wellness management core requirement.