### College of Health Sciences and Human Services

Susan Muller, Dean  
Kelly Kleinhans, Assistant Dean  
107C Applied Science Building  
(270) 809-3590

### DEPARTMENTS

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### PROGRAMS

#### UNDERGRADUATE

- Baccalaureate
- Athletic Training
- Communication Disorders
- Criminal Justice
- Exercise Science
- Nutrition, Dietetics and Food Management
- Occupational Safety and Health
- Recreation and Leisure Services
- Social Work
- Youth and Nonprofit Leadership
- Community Health (Pending CPE Approval)

#### GRADUATE

- Master's
  - Occupational Safety and Health
  - Nutrition
  - Speech-Language Pathology

- Certificate
  - Registered Dietian (R.D.)
  - Youth and Nonprofit Leadership
The College of Health Sciences and Human Services offers an array of exemplary accredited practice-based programs designed to prepare students for careers in some of the most important and rapidly growing fields.

Mission
The mission of the College of Health Sciences and Human Services is to prepare students for careers in the areas of allied health and human service. The faculty foster learning through student-centered activities including service learning projects, internships, and clinical experiences that are responsive to the needs of an evolving and diverse society. Each program develops graduates who exhibit interpersonal and critical thinking skills, cultural sensitivity, and the professional knowledge, skills and dispositions required to contribute to their chosen profession.

Programs
The College of Health Sciences and Human Services is organized into three departments: Applied Health Sciences; Community Leadership and Human Services; and Occupational Safety and Health.

The Department of Applied Health Sciences offers the following programs dealing with health promotion, pre-professional, clinical practice, and rehabilitation sciences.

A bachelor of science degree is offered in athletic training. This program prepares students to become certified athletic trainers and is accredited by the Commission on Accreditation of Athletic Training Education.

A bachelor degree is offered in communication disorders and a Master of Science in Speech-Language Pathology. These programs operate the Murray State University Speech and Hearing Clinic, which offers a full range of speech language pathology and audiology services to individuals of all ages throughout the western Kentucky area.

A bachelor of science degree is offered in exercise science. Two tracks are available in pre-health professional and wellness. This program prepares students to pursue graduate programs and to take national exams through the American College of Sports Medicine, the National Strength and Conditioning Association, or other recognized entities in related fields.

A bachelor of science degree is offered in nutrition, dietetics and food management with tracks in dietetics, food management, or nutrition and foods. The graduate Dietetics Internship Program prepares students to become Registered Dietitians (R.D.). These graduate internship hours may be applied to completion of the Master of Science in Nutrition.

The Department of Community Leadership and Human Services offers a Bachelor of Social Work (B.S.W.), and a bachelors of arts or science in recreation and leisure services, youth and nonprofit leadership, or criminal justice. Students in the degree programs gain hands-on experience by working in a variety of settings in regional and state agencies.

The criminal justice program affords students a broad-based overview of the criminal justice system and its components as well as the ability to specialize in an area of the student's interest. Through the choice of electives, students can emphasize policing, corrections, the nature of crime, and crime causation. Criminal justice graduates are prepared for a variety of professional careers as well as graduate studies in criminal justice or law.

The primary purpose of the social work program is to prepare students for entry-level professional generalist practice as social workers in a variety of social service agencies and organizations. To accomplish this purpose, a well-developed curriculum is offered that is responsive to the social problems and issues confronting society today, and which provides students a stimulating and provocative approach to preparing themselves for a social work career.

Bachelor degrees in recreation and leisure services offer two track choices: adventure leadership and community recreation. Graduates of this program are eligible to take the national examination to become Certified Park and Recreation Professionals (C.P.R.P.).

A major in youth and nonprofit leadership prepares students for leadership and volunteer roles in youth, human service, and nonprofit organizations by developing the whole person—mind, body, and spirit—for service to others.

There are also minors available in adventure leadership, community recreation, criminal justice, gerontology, social welfare, and youth and nonprofit leadership.

The Department of Occupational Safety and Health offers a nationally recognized program leading to a bachelor of science degree and Master of Science degree in occupational safety and health. The B.S. degree has two tracks: occupational safety and health and environmental health and safety. The department also offers a technical minor in occupational safety and health. The M.S. in Occupational Safety and Health provides the philosophical, scientific and technical knowledge needed for professional and administrative positions in the safety field.

Accreditations
The following degree programs hold national accreditations: M.S. in Speech-Language Pathology (Council on Academic Accreditation in Audiology and Speech-Language Pathology of the American Speech-Language-Hearing Association); B.S. in Athletic Training (Commission on Accreditation of Athletic Training Education); both the undergraduate dietetics and graduate Registered Dietitian Certificate (Accreditation Council for Education in Nutrition and Dietetics); Bachelor of Social Work (Council on Social Work Education); and the B.S. and M.S. in Occupational Safety and Health (Applied Science Accreditation Commission of the Accreditation Board for Engineering and Technology [ASAC/ABET]). Accreditation for the B.S. in Exercise Science is anticipated through the Committee on Accreditation for the Exercise Sciences (CoAES).

Note: L=literature; R=research; PT=professional training. See page 59.

Department of Applied Health Sciences
408B Applied Science Building
270-809-5742

Chair: TBA. Faculty: Broughton, Brown, Crouch, Dodd, Erdmann, Hart, Kleinhans, Moss-Robinson, Payne; B. Rice, Spruill-Young, Waggoner

The Department of Applied Health Sciences is comprised of four program areas: athletic training, communication disorders, exercise science, and nutrition, dietetics and food management.

Athletic Training
An athletic trainer is a qualified health care professional educated and experienced in the management of health care problems
associated with physical activity. In cooperation with physicians and other health care personnel, the athletic trainer functions as an integral member of the health care team in secondary schools, colleges and universities, professional sports programs, sport medicine clinics, and other health care settings. Through a combination of formal classroom instruction and clinical experiences, the athletic trainer is prepared to apply a wide variety of specific health care skills and knowledge.

Athletic Training Requirements for Admission

A considerable time commitment is required to successfully complete all the requirements in the Athletic Training Program (AT Program). Students are selected using a competitive admission process due to limited space availability at the clinical sites. To be considered for admission into the AT Program, students must achieve and maintain a cumulative GPA of 2.5 on a 4.0 scale, pass at least 30 semester hours of college credit, complete at least 30 observation hours and/or pass EXS 270, meet the Technical Standards (see AT Program web site), and apply by the deadline (by the first Friday in November or the first Friday of the spring semester). The AT Program Admission Committee reviews the following materials for admission: application, candidate interview, overall college GPA, ACT/SAT scores, prior experience, certifications/professional memberships, performance reviews during their observation hours and/or EXS 270, college courses completed, and three letters of recommendation. Only those candidates admitted into the AT Program and have successfully completed an approved CPR/First Aid course may take the clinical experience courses (EXS 271, 371, 372). Students may transfer into the program based on their credentials, courses completed at another institution, space availability, and permission from the AT Program Director. Department approval is required to transfer in EXS 295, 296, 301, 304, 305, 320, 390, 402, 403, 420, 421, and 471 from other institutions.

Students must earn a grade of B or better in EXS 271, 371, and 372; additionally, a grade of C or better is required in the other Athletic Training Core Courses. Students with a grade below a C in EXS 301 or 304 may not continue with the AT Program progression and must retake the course the next semester offered. Students must achieve a cumulative GPA of 2.5 or higher prior to enrolling in EXS 320, 390, 402, 403, 420, 421, and 471. If the student’s cumulative GPA drops below the required 2.5, the student will be placed on probation according to the program’s GPA policy (see AT Program web site).

Students must maintain confidentiality at the clinical site(s), show respect for faculty, staff, and patients at all times, and demonstrate adequate performance of the Essential Skills (see AT Program web site) to be admitted and retained in the AT Program. All students must meet the Technical Standards established to assure the health and safety of the candidate, other athletic training students, faculty, staff, and patients. All candidates are required to complete a physical exam upon acceptance into the AT Program and provide proof of proper immunizations, including the Hepatitis B vaccination (HBV) or a signed HBV waiver.

Athletic training students must purchase and consistently maintain personal liability insurance to a level of no less than $1,000,000/incident, $3,000,000 aggregate before participating in any clinical experience course. Students must purchase proper attire to be worn at the clinical sites, pay for annual trainings and/or certifications, provide their own transportation to their clinical experience sites, and be responsible for any other costs (see AT Program web site).

Any student who, after reasonable accommodations, cannot perform the essential skills may not be permitted to continue in the AT Program. It is the student’s responsibility to notify the Director, Office of Equal Opportunity/ADA Coordinator, Murray State University, to request a reasonable accommodation. All requests for accommodation must be accompanied by appropriate documentation from a qualified professional referencing the condition and specific need for the accommodation requested.

AREA: Athletic Training

Bachelor of Science Degree

CIP 51.0913

ACCREDITED BY: Commission on Accreditation of Athletic Training Education (CAATE)

University Studies Requirements ..................................................44 hrs

(See Academic Degrees and Programs.)

University Studies selections must include:

Scientific Inquiry, Methodologies, and Quantitative Skills:
BIO 101 Biological Concepts

or

BIO 221 Zoology: Animal Form and Function

CHE 111 Essentials of Chemistry and Biochemistry

or

CHE 201 General College Chemistry

MAT 140 College Algebra (or higher math)

Social and Self-Awareness and Responsible Citizenship:

PHI 202 Ethics

or

PSY 180 General Psychology

University Studies Electives:

CSC 125 Internet and Web Page Design

or

CSC 199 Introduction to Information Technology

MAT 135 Introduction to Probability and Statistics

Core Courses ..................................................................................79 hrs

BIO 227 Human Anatomy

BIO 228 Human Anatomy Laboratory

BIO 229 Human Physiology

BIO 230 Human Physiology Laboratory

EXS 099 Transitions

EXS 101 Concepts and Careers in Exercise Science and Athletic Training

EXS 271 Clinical Experience: Introduction

EXS 295 Acute Care of the Physically Active

EXS 296 Acute Care of the Physically Active Laboratory

EXS 301 Care and Prevention of Injuries

EXS 304 Evidence-based Practice in Musculoskeletal Evaluation

EXS 305 Bracing, Splinting and Taping

EXS 320 Evaluation of Non-Orthopedic Conditions

EXS 333 Theory and Techniques in Strength and Conditioning

EXS 350 Exercise Physiology

EXS 353 Exercise Prescription

EXS 370 Kinesiology

EXS 371 Clinical Experience: Application

EXS 372 Clinical Experience: Integration

EXS 375 Biomechanics in Sport and Exercise

EXS 380 Sports Medicine Pharmacology

EXS 385 Sport and Exercise Psychology

EXS 390 Therapeutic Modalities

EXS 400 Research Design and Statistics for Allied Health
EXS 402 Evaluation of the Lower Extremity  
EXS 403 Evaluation of the Upper Extremity  
EXS 420 Rehabilitation Techniques  
EXS 421 Rehabilitation Techniques Lab  
EXS 471 Administration in Exercise Science  
NTN 230 Nutrition

Total Curriculum Requirements ........................................ 123 hrs  
1Students must obtain a grade of B or better.  
2Students must obtain a grade of C or better to progress in the AT Program sequence of courses.  
3Students must complete a total of 12 hours from EXS 371 and 372, but no more than nine hours from each.

Communication Disorders
The communication disorders program provides pre-professional undergraduate and professional graduate training leading to certification by the American Speech-Language-Hearing Association and to Kentucky certification and licensure in speech-language pathology. Degrees offered in this program include a Bachelor of Arts and Bachelor of Science in Communication Disorders and a M.S. in Speech-Language Pathology. Students in the communication disorders program are strongly encouraged to study abroad.

Admission Requirements
Students may declare communication disorders as their area of choice at any point. However, students cannot enroll in CDI 325, 345, or 400-level CDI classes until they have been admitted to the communication disorders program.

In order to be admitted to the communication disorders program, a student must 1) have completed 40 semester hours of coursework with a minimum GPA of 2.65; 2) complete an application for admission to the program; 3) apply by February 15, for fall admission or by October 1, for spring admission; 4) follow the most current bulletin when admitted to the program.

Once admitted to the program, students must maintain an overall GPA of 2.65 and an area GPA of 2.85. Any student whose GPA falls below this minimum must meet with the division retention committee before participating in the upper-level CDI classes. The decision of the division retention committee will be final.

AREA: Communication Disorders

Bachelor of Science/Bachelor of Arts Degree
CIP 51.0204

ACCREDITED BY:
Council on Academic Accreditation in Audiology and Speech-Language Pathology (CAA); National Council for Accreditation of Teacher Education (NCATE)

University Studies Requirements ................................ 41-47 hrs  
(See Academic Degrees and Programs.)

University Studies selections must include:
• Scientific Inquiry, Methodologies, and Quantitative Skills:
  One biological science course  
  One physical science course  
• Social and Self-Awareness and Responsible Citizenship:
  PSY 180 General Psychology

Required Courses.......................................................... 48 hrs
CDI 099 Transitions  
CDI 205 Introduction to Communication Disorders  
CDI 215 Clinical Phonetics  
CDI 310 Anatomy and Physiology  
CDI 315 Speech Science  
CDI 325 Pediatric Speech Disorders I  
CDI 340 Speech and Language Development  
CDI 345 Pediatric Language Disorders II  
CDI 405 Audiology  
CDI 440 Neurogenic Communication Disorders  
CDI 451 Aural Rehabilitation  
CDI 465 Neuroanatomy and Physiology for the Speech-Language Pathologist

Required Support Courses............................................. 6 hrs
EDP 260 Psychology of Human Development  
PSY 260 Lifespan Development  
SED 300 Educating Students with Disabilities

Required Support Courses............................................. 12 hrs
Choose from the following. Six hours must be upper-level electives.  
BIO 120 Scientific Etymology  
COM 131 Introduction to Interpersonal Communication  
COM 340 Intercultural Communication  
COM 353 Team Communication and Leadership  
COM 367 Communication and Critical Thought  
COM 384 Communication Skills for Professionals  
ENG 228 Standard English Usage  
ENG 310 Introduction to English Linguistics  
GTY 305 Services to Older Americans  
HEA 195 First Aid and Safety  
MAT 135 Introduction to Probability and Statistics  
PSY 180 Principles and Methods of Statistical Analysis  
PSY 326 Psychology of Language  
PSY 471 Behavior Modification  
REC 520 Leisure and Aging  
SED 408 Functional Behavior Analysis  
SED 526 Education of Young Children with Severe Disabilities  
SOC 343 Minorities in the United States  
SWK 225 Human Diversity  
One course offered through Study Abroad

Required Toward K-12 Certification1 ................................ 12 hrs
CDI 480 School Services for Communication Disorders  
COM 161 Introduction to Public Speaking  
CSC 199 Introduction to Information Technology2  
EDP 260 Psychology of Human Development2

Note: A teaching certificate is required to obtain a tenured position as an SLP in Kentucky schools. Specific undergraduate courses must be taken and grade requirements met before a student can meet qualifications for a teaching certificate. Students should meet with academic advisors to ensure they meet these requirements.

Unrestricted Electives.................................................. 7-13 hrs

Total Curriculum Requirements ..................................... 120 hrs
1These courses are required only for students pursuing public school certification. Although these courses are taken at the bachelor’s level, requirements for certification are completed at the master’s level.  
2May be taken as a University Studies elective.
Speech-Language Pathology
Graduate Program

The Speech-Language Pathology program offers practicum experiences in the university’s Speech-Language and Hearing Clinic and various off-site settings. The program leads to Kentucky licensure in speech-language pathology, certification by the Kentucky Department of Education, and the ASHA Certificate of Clinical Competence in Speech-Language Pathology.

Requirements for Admission
Applicants must meet the Murray State University requirements (see Graduate Admissions). Additional requirements for unconditional admission are as follows.

• Complete application for admission to Murray State University Graduate School by deadline;
• Complete application to the Communication Disorders program by the deadline issued by the Communication Disorders program;
• A baccalaureate degree in communication disorders or equivalent from a regionally accredited institution;
• At least a 3.0 undergraduate grade point average.
• Submission of official Graduate Record Examination scores by program application deadline.
• Successful completion of the following prerequisite courses (or their equivalents) at time of application.

CDI 215 Clinical Phonetics
CDI 310 Anatomy and Physiology
CDI 315 Speech Science
CDI 325 Pediatric Speech Disorders I
CDI 340 Speech and Language Development
CDI 345 Pediatric Language Disorders I
CDI 405 Audiology
CDI 451 Aural Rehabilitation
CDI 465 Neuroanatomy and Physiology for the Speech-Language Pathologist
CDI 470 Pediatric Speech Disorders II
CDI 472 Pediatric Language Disorders II

Additional courses may be required to meet certification and/or graduate degree requirements.

The area in Exercise Science (EXS) is currently seeking accreditation through the Commission on Accreditation of Allied Health Education Programs (CAAHEP). Accreditation through CAAHEP ensures that our program meets specific standards. It therefore assures students that our program provides a quality educational opportunity that delivers the knowledge, skills and abilities required of exercise science professions.

Exercise Science
The Area in Exercise Science (EXS) is currently seeking accreditation through the Commission on Accreditation of Allied Health Education Programs (CAAHEP). Accreditation through CAAHEP ensures that our program meets specific standards. It therefore assures students that our program provides a quality educational opportunity that delivers the knowledge, skills and abilities required of exercise science professions.

The EXS program is divided into two tracks (Pre-Health Professional and Wellness) with choices in each track designed to meet the varied interests of students.

Exercise Science professionals often collaborate with other health care professionals to provide clients with information
designed to manage and prevent health issues associated with physical activity. Students who are passionate about working with people interested in developing healthier lifestyles through a combination of educational programs and exercise should consider the Wellness track. Students who choose the Wellness track complete the core course requirements and select two concentrations. Graduates may choose to work independently as a business owner or with other healthcare professionals in a variety of settings, including hospital wellness centers, cardiac rehabilitation, corporate fitness programs, private industry and other wellness-related facilities. Graduates may also consider pursuing a graduate degree in related fields.

Healthcare professionals are in high demand nationwide. Students choosing to pursue graduate programs in occupational therapy, physical therapy, physician assistant, or other health-related fields should consider the Pre-Health Professional track. The Pre-Health Professional track allows the student to complete the EXS core course requirements and the prerequisite coursework required for their intended graduate program. Students should note that completing MSU’s EXS Pre-Health Professional Track does not guarantee acceptance to graduate programs. Acceptance into graduate programs is challenging and highly competitive. Successful applicants demonstrate a competitive academic history, have knowledge of the profession, and are motivated to succeed. Considering these high standards necessary for graduate programs and MSU’s interest in each student’s career success, criteria have been established that must be met prior to taking specific upper-level EXS courses. Students who do not meet these requirements are encouraged to evaluate their career choice so the remaining coursework can be tailored to prepare them for the workforce or other graduate programs at the time of graduation from MSU.

The EXS Pre-Health Professional program’s flexible design provides opportunities for students, with advisor guidance, to tailor their coursework to meet specific demands that graduate programs require for admittance. Requirements necessary for acceptance to graduate programs differ depending on the field of study and the particular graduate programs. Students are strongly encouraged to explore potential graduate program or career options and narrow their area of interest(s) early in their undergraduate program. This will assist the student, under the guidance of their academic advisor, in developing an academic plan of action. Although academic advisors will be assisting students, it is the responsibility of the student to ensure all prerequisite coursework required for a specific graduate program has been completed.

With the exception of first semester freshman, all students must have a cumulative GPA of 2.0 and have completed all developmental courses prior to declaring exercise science as an area. Students must earn a C or better in all EXS core and track-specific courses. A cumulative grade point average of 2.5 for students pursuing the Wellness track and a 3.0 for students pursuing the Pre-Health Professional track is required prior to enrollment in most senior-level courses. The 2.5 (or 3.0 depending on the program) GPA must be maintained to graduate.

Pre-Health Professional Track
Prior to taking EXS 304, 320, 390, 402, 403, 420 and/or 435, students must have
- earned a grade of C or better in all EXS core and track-specific courses,
- completed as least one of the following with a grade of C or better: CHE 111, CHE 201, PHY 130, and PHY 131,
- earned a minimum 3.0 cumulative grade point average. The 3.0 GPA must be maintained to graduate.

Wellness Track
Prior to taking EXS 353, 354, 415, 433, 445, 446, 465, 469, and 470, students must have
- earned a grade of C or better in all EXS core and track-specific courses,
- earned a minimum 2.5 cumulative grade point average. The 2.5 GPA must be maintained to graduate.

Any EXS student that is not adequately progressing through the program and/or has not met program requirements are held to the following:
- If a student earns below a C, the course must be retaken the next opportunity it is offered. If the course is not offered the next semester, but the student meets the cumulative GPA requirements, they will be allowed to progress in other courses.
- If on the third attempt, the student is still unable to earn a C or better, the course cannot be repeated again for the EXS program and the student can no longer progress through the EXS program.

AREA:
Exercise Science/Pre-Health Professional Track

Bachelor of Science Degree
CIP 31.0505

University Studies Requirements ................................. 47 hrs
(See Academic Degrees and Programs.)

University Studies selections must include:
- **Scientific Inquiry, Methodologies, and Quantitative Skills:**
  BIO 101 Biological Concepts
  or
  BIO 216 Biological Inquiry and Analysis
  or
  BIO 221 Zoology: Animal Form and Function
  CHE 111 Essentials of Chemistry and Biochemistry
  or
  CHE 201 General College Chemistry
  MAT 150 Algebra and Trigonometry (or higher math)
- **Social and Self-Awareness and Responsible Citizenship:**
  PHI 202 Ethics
  PSY 180 General Psychology
- **University Studies Electives:**
  CSC 125 Internet and Web Page Design
  or
  CSC 199 Introduction to Information Technology
  MAT 135 Introduction to Probability and Statistics
  PHY 130 General Physics I
  PHY 131 General Physics I Laboratory

Core Courses .......................................................... 50 hrs

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<td>EXS 099 Transitions</td>
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<td>EXS 101 Concepts and Careers in Exercise Science and Athletic Training</td>
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<td>EXS 275 Group Fitness Instruction</td>
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EXS 351 Exercise Physiology Laboratory
EXS 353 Exercise Prescription
EXS 354 Exercise Prescription Laboratory
EXS 370 Kinesiology
EXS 375 Biomechanics in Sport and Exercise
EXS 385 Sport and Exercise Psychology
EXS 415 Exercise Concepts in Special Populations
EXS 469 Professional Experience I
EXS 471 Administration in Exercise Science
NTN 230 Nutrition

**Profession Specific Courses** ............................................... 23 hrs
Selected from the following based on requirements of intended graduate program. Eleven hours must be 300-level or above.

BIO 120 Scientific Etymology
BIO 220 Clinical Terminology
BIO 300 Introductory Microbiology
CHE 202 General Chemistry and Qualitative Analysis
CHE 312 Organic Chemistry I
EXS 296 Acute Care of the Physically Active Laboratory
EXS 304 Evidence-based Practice in Musculoskeletal Evaluation
EXS 320 Evaluation of Non-Orthopedic Conditions
EXS 380 Sport Medicine Pharmacology
EXS 390 Therapeutic Modalities
EXS 400 Research Design and Statistics for Allied Health
EXS 402 Evaluation of the Lower Extremity
EXS 403 Evaluation of the Upper Extremity
EXS 420 Rehabilitation Techniques
EXS 421 Rehabilitation Techniques Lab
EXS 435 Neurological Anatomy and Physiology
PHY 132 General Physics II
PHY 133 General Physics II Laboratory
PSY 260 Lifespan Development
PSY 407 Abnormal Psychology
SOC 133 Introduction to Sociology
Career Elective (advisor approved)

**Total Curriculum Requirements** ....................................... 120 hrs

**AREA:**
**Exercise Science/Wellness Track**

Bachelor of Science Degree
CIP 31.0505

University Studies Requirements ........................................44 hrs
(See Academic Degrees and Programs.)

University Studies selections must include:

- **Scientific Inquiry, Methodologies, and Quantitative Skills:**
  BIO 101 Biological Concepts
  or
  BIO 221 Zoology: Animal Form and Function
  CHE 111 Introductory Chemistry I
  or
  CHE 201 General College Chemistry
  MAT 140 College Algebra (or higher math)
- **Social and Self-Awareness and Responsible Citizenship:**
  PHI 202 Ethics
  PSY 180 General Psychology
- **University Studies Electives:**
  CSC 125 Internet and Web Page Design
  or

College of Health Sciences and Human Services

CSC 199 Introduction to Information Technology
MAT 135 Introduction to Probability and Statistics
Advisor approved elective (2 hrs)

**Core Courses** ................................................................. 50 hrs

BIO 227 Human Anatomy
BIO 228 Human Anatomy Laboratory
BIO 229 Human Physiology
BIO 230 Human Physiology Laboratory
EXS 099 Transitions
EXS 101 Concepts and Careers in Exercise Science and Athletic Training
EXS 275 Group Fitness Instruction
EXS 295 Acute Care of the Physically Active
EXS 301 Care and Prevention of Injuries
EXS 302 Essential Prevention and Management of Injuries
EXS 333 Theory/Techniques in Strength and Conditioning
EXS 350 Exercise Physiology
EXS 351 Exercise Physiology Laboratory
EXS 353 Exercise Prescription
EXS 354 Exercise Prescription Laboratory
EXS 370 Kinesiology
EXS 375 Biomechanics in Sport and Exercise
EXS 385 Sport and Exercise Physiology
EXS 390 Therapeutic Modalities
EXS 400 Research Design and Statistics for Allied Health
EXS 402 Evaluation of the Lower Extremity
EXS 403 Evaluation of the Upper Extremity
EXS 420 Rehabilitation Techniques
EXS 421 Rehabilitation Techniques Lab
EXS 435 Neurological Anatomy and Physiology
PHY 132 General Physics II
PHY 133 General Physics II Laboratory
PSY 260 Lifespan Development
PSY 407 Abnormal Psychology
SOC 133 Introduction to Sociology
Career Elective (advisor approved)

**Area of Wellness Courses** ............................................... 26-27 hrs
Select from the following, choosing courses from two concentrations. A minimum of 12 hours from each of the chosen concentrations is required.

**Business**
EXS 470 Professional Experience II
LST 240 Legal Environment in Business
MGT 350 Fundamentals of Management
MGT 358 Entrepreneurial Business Plan Development
MGT 370 Sports Business
MKT 360 Principles of Marketing

**Fitness Specialist**
EXS 400 Research Design and Statistics for Allied Health
EXS 433 Advanced Practices in Strength and Conditioning
EXS 445 Senior Seminar I
EXS 446 Senior Seminar II
EXS 465 Advanced Exercise Physiology
EXS 470 Professional Experience II
HEA 415 Communication Techniques for Health Care Providers

**Health Promotion**
EXS 356 Health Promotion Programming
EXS 470 Professional Experience II
GCM 151 Introduction to Print Media Management
HEA 210 Health Behavior
HEA 311 Epidemiology
NTN 333 Nutrition Throughout the Life Cycle
YNL 502 Workshop in Financial Resource Development

**Total Curriculum Requirements** ....................................... 120-121 hrs
Nutrition, Dietetics and Food Management

The nutrition, dietetics, and food management program offers a B.S. degree with a choice of three options: dietetics, food management, and nutrition and foods, as well as a Master of Science.

The Dietetics Track focuses on the application of principles of nutrition, physiology, biochemistry, behavioral and social sciences and management to promote optimal health in individuals, and leads to credentialing as a Registered Dietitian (R.D.). The R.D. is the nationally recognized credential in nutrition. It is required for most employment in the health care industry and preferred for many other employment opportunities in foods and nutrition. The admission requirements for the Dietetics Track are explained below. Upon successful completion of the B.S. degree program in Dietetics, a graduate must complete an accredited post-baccalaureate supervised practice program (Dietetic Internship Program) to gain eligibility for the national examination for R.D. status. Murray State also offers a post-baccalaureate dietetic internship program.

The Food Management Track prepares students for careers in the hospitality industry. Skills developed can be applied to a wide range of jobs across the industry. There will be no shortage of exciting opportunities and fresh challenges in the years ahead. Necessary skills include basic business skills, motivation, and supervisory skills as well as food purchasing, preparation, and service. Careers you can explore include theme parks, country clubs, corporate dining, university dining, bed and breakfast, restaurants, consulting, and sales.

The Nutrition and Foods Track provides a broad education in basic nutrition and food studies leading to a variety of career possibilities in food and nutrition. Today’s interest in healthy lifestyles is translating into a remarkable range of career opportunities related to health, diet, and fitness. Graduates may be employed in a variety of settings such as education, government agencies, school, media, food management, or any position where the R.D. credential is not required.

Dietetics Admission Requirements

The Dietetics Program is accredited by the Accreditation Council for Education in Nutrition and Dietetics as a Didactic Program in Dietetics (DPD). In order to be admitted into the DPD, a student must have completed at least 30 credit hours and have a GPA of 3.0 or above with a B or better in NTN 230 and a C or better in two required science courses such as BIO 101, BIO 227, CHE 105, or CHE 210. In order to obtain a verification statement upon completion of the DPD, a student must have a GPA of at least 2.8 and at least a C in all DPD required courses.

University Studies selections must include:
• **Scientific Inquiry, Methodologies, and Quantitative Skills:**
  - BIO 101 Biological Concepts
  - CHE 105 Introductory Chemistry I
  - CHE 201 General College Chemistry
  - MAT 117 Mathematical Concepts (or higher math)
• **Social and Self-Awareness and Responsible Citizenship:**
  - PSY 180 General Psychology
  - **University Studies Electives:**
    - CSC 199 Introduction to Information Technology
    - SOC 133 Introduction to Sociology

Core Requirements .................................................. 45-46 hrs

- BUS 140 Foundations of Business
- MAT 135 Introduction to Probability and Statistics
  - or
- PSY 300 Principles and Methods of Statistical Analysis
- FCS 462 Methods of Teaching Family and Consumer Sciences
- MGT 350 Fundamentals of Management
- NTN 099 Transitions
- NTN 200 Introduction to the Profession
- NTN 220 Food Safety and Sanitation
- NTN 230 Nutrition
- NTN 231 Principles of Food Science and Preparation
- NTN 303 Research Concepts in Foods and Nutrition
- NTN 333 Nutrition Throughout the Life Cycle
- NTN 371 Quantity Food Production Practicum
- NTN 372 Quantity Food Production and Purchasing
- NTN 373 Management of Food Service Personnel and Facilities
- NTN 412 Community Nutrition and Health
- NTN 422 Meal Management
- NTN 432 Experimental Foods
- NTN 499 Senior Seminar

Dietetics Courses .................................................. 30-31 hrs

- BIO 227 Human Anatomy and
  - or
- BIO 228 Human Anatomy Laboratory
- EXS 250 Anatomical Concepts in Wellness
- BIO 229 Human Physiology
- BIO 230 Human Physiology Laboratory
- BIO 300 Introductory Microbiology
- CHE 210 Brief Organic Chemistry
- CHE 330 Basic Biochemistry
- HEA 415 Communication Techniques for Health Care Providers
- NTN 430 Advanced Nutrition
- NTN 434 Clinical Dietetics Practicum
- NTN 440 Medical Nutrition Therapy I
- NTN 450 Medical Nutrition Therapy II

Electives .............................................................. 3 hrs

Total Curriculum Requirements .......................... 120 hrs
AREA: Nutrition, Dietetics and Food Management/Food Management Track

Bachelor of Science Degree
CIP 19.0501

University Studies Requirements ...................... 42-44 hrs
(See Academic Degrees and Programs.)

University Studies selections must include:
• Scientific Inquiry, Methodologies, and Quantitative Skills:
  BIO 101 Biological Concepts
  CHE 105 Introductory Chemistry I
  or
  CHE 201 General College Chemistry
  MAT 117 Mathematical Concepts (or higher math)
• Social and Self-Awareness and Responsible Citizenship:
  PSY 180 General Psychology
• University Studies Electives:
  CSC 199 Introduction to Information Technology
  SOC 133 Introduction to Sociology

Core Requirements ....................................... 45-46 hrs
BUS 140 Foundations of Business
MAT 135 Introduction to Probability and Statistics
  or
PSY 300 Principles and Methods of Statistical Analysis
FCS 462 Methods of Teaching Family and Consumer Sciences
MGT 350 Fundamentals of Management
NTN 099 Transitions
NTN 200 Introduction to the Profession
NTN 220 Food Safety and Sanitation
NTN 230 Nutrition
NTN 231 Principles of Food Science and Preparation
NTN 303 Research Concepts in Foods and Nutrition
NTN 333 Nutrition Throughout the Life Cycle
NTN 371 Quantity Food Production Practicum
NTN 372 Quantity Food Production and Purchasing
NTN 373 Management of Food Service Personnel and Facilities
NTN 412 Community Nutrition and Health
NTN 422 Meal Management
NTN 432 Experimental Foods
NTN 499 Senior Seminar

Food Management Courses ................................ 24 hrs
ACC 200 Principles of Financial Accounting
ECO 230 Principles of Macroeconomics
MGT 550 Human Resource Management
MKT 360 Principles of Marketing
NTN 374 Food Service Management Practicum

Choose nine hours from the following:
ACC 201 Principles of Managerial Accounting
CSC 125 Internet and Web Page Design
MGT 358 Entrepreneurial Business Plan Development
MGT 551 Organizational Behavior
MGT 553 Human Resource Selection
MKT 361 Selling and Sales Management
MKT 565 Marketing Research
NTN 488 Cooperative Education/Internship
NTN 597 Trends and Issues in Nutrition and Foods

Electives .......................................................... 9 hrs

Total Curriculum Requirements ...................... 120 hrs

AREA: Nutrition, Dietetics and Food Management/Nutrition and Foods Track

Bachelor of Science Degree
CIP 19.0501

University Studies Requirements ...................... 42-44 hrs
(See Academic Degrees and Programs.)

University Studies selections must include:
• Scientific Inquiry, Methodologies, and Quantitative Skills:
  BIO 101 Biological Concepts
  CHE 105 Introductory Chemistry I
  or
  CHE 201 General College Chemistry
  MAT 117 Mathematical Concepts (or higher math)
• Social and Self-Awareness and Responsible Citizenship:
  PSY 180 General Psychology
• University Studies Electives:
  CSC 199 Introduction to Information Technology
  SOC 133 Introduction to Sociology

Core Requirements ....................................... 45-46 hrs
BUS 140 Foundations of Business
MAT 135 Introduction to Probability and Statistics
  or
PSY 300 Principles and Methods of Statistical Analysis
FCS 462 Methods of Teaching Family and Consumer Sciences
MGT 350 Fundamentals of Management
NTN 099 Transitions
NTN 200 Introduction to the Profession
NTN 220 Food Safety and Sanitation
NTN 230 Nutrition
NTN 231 Principles of Food Science and Preparation
NTN 303 Research Concepts in Foods and Nutrition
NTN 333 Nutrition Throughout the Life Cycle
NTN 371 Quantity Food Production Practicum
NTN 372 Quantity Food Production and Purchasing
NTN 373 Management of Food Service Personnel and Facilities
NTN 412 Community Nutrition and Health
NTN 422 Meal Management
NTN 432 Experimental Foods
NTN 499 Senior Seminar

Nutrition and Foods Courses .......................... 19-20 hrs
BIO 227 Human Anatomy and
BIO 228 Human Anatomy Laboratory
  or
EXS 250 Anatomical Concepts in Wellness
BIO 229 Human Physiology
BIO 230 Human Physiology Laboratory
CHE 210 Brief Organic Chemistry
HEA 191 Personal Health
College of Health Sciences and Human Services

HEA 415 Communication Techniques for Health Care Providers
NTN 430 Advanced Nutrition
Electives .......................................................10-14 hrs

Total Curriculum Requirements .......................120 hrs

Nutrition Graduate Programs

The Master of Science (M.S.) in Nutrition is a 35-credit-hour program which enables graduates of the Registered Dietitian (R.D.) certification program to pursue additional higher education in the areas of professional counseling, education, science, statistics, psychology, management, and nutrition research. The M.S. in Nutrition prepares students to effectively compete in a growing job market in which 5 of 10 dietitians nationally hold master’s degrees. Advances in nutrition and genetic research, aging demographics, and accelerating rates of nutrition-related diseases such as obesity and diabetes fuel the demand for highly trained nutrition professionals.

Master of Science in Nutrition

CIP 19.0501

Requirements for Admission
Applicants must meet the Murray State University requirements (see Graduate Admissions). Additional requirement for admission is as follows.
• Students must receive assignment to the MSU Dietetic Internship Program from the Commission on Dietetics Education’s agent.

Non-Thesis Requirements
Total Course Requirements ..................................35 hrs
NTN 640 Dietetics Clinical Training Primer
NTN 641 Nutrition Therapy I
NTN 642 Management Practice in Dietetics
NTN 643 Community Nutrition
NTN 650 Dietetic Clinical Nutrition Assessment and Care
NTN 651 Medical Nutrition Therapy II
NTN 652 Dietetics Clinical Practice in Long Term Care
NTN 653 Advanced Clinical Experience
NTN 656 Nutrition Research Literature Review
NTN 660 Research Project in Nutrition I
NTN 661 Research Project in Nutrition II
Advisor approved graduate level research methods/statistics course
Advisor approved graduate level behavior change, patient counseling and/or patient education course
Approved elective (1-4 hrs)

Other Degree Requirements
• Student must pass the Registration Examination after 18 hours of study to continue in the program.

CERTIFICATE: Registered Dietitian (R.D.)

CIP 19.0501

ACCREDITED BY:
Accreditation Council for Education in Nutrition and Dietetics (ACEND)

Requirements for Admission
Applicants must meet the Murray State University requirements (see Graduate Admissions). Additional requirement for admission is as follows.
• Students must receive appointment to the MSU Dietetic Internship Program from the Commission on Dietetics Education’s agent.

Total Course Requirements...............................18 hours
NTN 640 Dietetics Clinical Training Primer
NTN 641 Nutrition Therapy I
NTN 642 Foodservice Management
NTN 643 Community Nutrition
NTN 650 Dietetic Clinical Nutrition Assessment and Care
NTN 651 Medical Nutrition Therapy II
NTN 652 Dietetics Clinical Practice in Long Term Care
NTN 653 Advanced Clinical Experience

Community Health
Contingent upon the approval of the Council on Postsecondary Education, the Department of Applied Health Sciences will begin admission to the following B.S. degree in Community Health beginning August 2013. Contact the department for details.

Community Health Educators work in a variety of settings including hospitals, non-profit organizations, government, private business, as well as medical clinics and health departments. The area in Community Health provides an opportunity for students who have an interest in health related disciplines, but who may not wish to attend graduate school, to pursue a viable career in the field.

The Bachelor of Science in Community Health is designed to prepare students to:
• promote the health of individuals and groups within the community;
• demonstrate the ability to think critically and behave ethically while fulfilling the seven areas of responsibility for a health educator;
• work with individuals, groups, and families in the worksite, health behavior organizations, university-based health services, wellness centers, and community health programs at the local, state, or federal level;
• display positive professional dispositions consistent with current standards of practice;
• communicate with clients, families colleagues, and all stakeholders in implementing health promotion programs;
• limit instruction, communication, and counseling to the health educator’s professional scope of practice;
• pass the Certified Health Education Specialist (CHES) examination; and
• gain employment as a community-based health educator.
AREA: Community Health

Bachelor of Science Degree
CIP 51.2208

University Studies Requirements .........................43-44 hrs
(See Academic Degrees and Programs.)

University Studies selections must include:
• Scientific Inquiry, Methodologies, and Quantitative Skills:
  BIO 101 Biological Concepts
  CHE 105 Introductory Chemistry I
  or
  CHE 111 Essentials of Chemistry and Biochemistry
  MAT 140 College Algebra (or higher math)
• Social and Self-Awareness and Responsible Citizenship:
  PHI 202 Ethics
  PSY 180 General Psychology
• University Studies Electives:
  CSC 125 Internet and Web Page Design
  or
  CSC 199 Introduction to Information Technology

Core Courses ..................................................49 hrs
  HEA 099 Transitions
  HEA 110 Foundations of Community Health Education
  HEA 191 Personal Health
  HEA 200 Community and Consumer Health
  HEA 210 Health Behavior
  HEA 301 Chronic and Communicable Diseases
  HEA 311 Epidemiology
  HEA 356 Health Promotion Programming
  EXS 400 Research Design and Statistics for Allied Health
  HEA 415 Communication Techniques for Health Care Providers
  HEA 460 Human Sexuality
  HEA 470 Education for Drug Abuse Prevention
  HEA 499 Professional Experience in Community Health Education
  NTN 230 Nutrition
  NTN 333 Nutrition Throughout the Life Cycle
  NTN 412 Community Nutrition and Health

Area of Community Health Courses .....................27 hrs
Select one of the following:

Gerontology
  GTY 264 Psychology of Aging
  GTY 305 Service to Older Americans
  GTY 330 Death and Dying: Issues for Caregivers
  GTY 340 Sociology of Medicine
  GTY 341 Social Gerontology
  GTY 520 Leisure and Aging
  GTY 521 Issues in Social Gerontology
  LST 350 Legal Services for the Elderly
  PSY 310 Health Psychology

Healthcare Administration
  COM 380 Organizational Communication
  COM 439 Conflict in Communication
  HCA 395 Cultural Diversity for Health Care Organizations
  HCA 401 Overview of the Health Care Delivery System
  HCA 405 Hospital and Health Services Administration

HCA 410 Health Care Planning
HCA 415 Financial Aspects of Health Service Organizations
PSY 310 Health Psychology
SWK 348 Technology in Human Services

Nonprofit Leadership
  COM 340 Intercultural Communication
  COM 380 Organizational Communication
  MGT 350 Fundamentals of Management
  MGT 550 Human Resource Management
  MKT 360 Principles of Marketing
  REC 302 Special Event Management
  YNL 351 Leadership and Support Systems in Youth and Human Service Organizations
  YNL 485 Seminar on Leadership Development
  YNL 502 Workshop in Financial Resource Development

Unrestricted Electives ...........................................0-1 hrs

Total Curriculum Requirements .........................120 hrs

Department of Community Leadership and Human Services
108 Carr Health Building
270-809-6802


The Department of Community Leadership and Human Services offers areas in criminal justice, recreation and leisure services and social work, a major in youth and nonprofit leadership, and minors in adventure leadership, community recreation, criminal justice, gerontology, social welfare, and youth and nonprofit leadership.

Criminal Justice

The criminal justice program offers students a broad-based overview of the criminal justice system and its components as well as the opportunity to focus in an area of the student’s interest by taking specific elective courses. Criminal justice graduates are prepared for a variety of professional careers as well as criminal justice graduate study or law school.

This program leads to a Bachelor of Arts or a Bachelor of Science degree in criminal justice. The University Studies component provides the necessary liberal arts education, while the criminal justice area further develops the individual student’s oral, written, analytical, leadership, and problem-solving skills. Internship experiences in a variety of agencies are available during the junior and senior years and are an excellent way to find employment in federal or state agencies.

The faculty encourages all students to be actively involved in student organizations, which provide opportunities for students to network with criminal justice practitioners and gain valuable leadership experiences. Two criminal justice student organizations are available: Lambda Alpha Epsilon, an academic fraternity of the American Criminal Justice Association; and Alpha Phi Sigma, the national criminal justice honor society affiliated with the Academy of Criminal Justice Sciences.
Requirements for Admission

Students should declare criminal justice as their intended area or minor as early as possible so that they can be properly advised. However, to be fully admitted to the criminal justice area or minor, a student must 1) have completed ENG 105 with a C or higher grade; 2) have completed 30 semester hours with a minimum GPA of 2.50; and 3) have completed CRJ 140 with a C or higher grade. New transfer students and MSU students who change their major to the criminal justice area must take CRJ 140 (if not taken already) and CRJ 099 in the first semester in order to achieve full admission to the criminal justice program. In order to remain in the program (i.e. be eligible to enroll in any 300-level or higher CRJ course), students must maintain a minimum GPA of 2.50. Any student, regardless of major or minor, in addition to meeting course prerequisites, must have a minimum GPA of 2.50 in order to enroll in any 300-level or higher CRJ course. Students may take CRJ 220 and CRJ 240 with a lower GPA as long as they meet all course prerequisites.

Incoming freshmen and transfer students planning to enter the criminal justice area must follow the graduation requirements in the MSU Bulletin in effect in the academic year of their first semester of enrollment at Murray State.

Requirements to Graduate: To graduate with a criminal justice area or minor, all students must: 1) have a GPA of 2.50 overall and have a 2.50 GPA in all coursework completed at Murray State University; and 2) must earn a grade of C or higher in all CRJ courses counting towards the area or minor, including CRJ electives needed to graduate.

Note to Auditors: Students who desire to take a CRJ course without a grade (for no credit) may do so if such an audit is approved by the course professor in writing by the last day to add a course. If a student is having trouble with a course and is expecting to fail the course, it should be dropped before the drop or withdrawal deadline to secure a W grade. If a student changes from normal grade to audit after the first week of class, all course work must still be completed and full attendance is expected. The audit will turn into an E (failing final grade) if the student receives less than a D as the final grade.

AREA:

Criminal Justice

Bachelor of Arts/Bachelor of Science Degree
CIP 43.0104

University Studies Requirements ..........................41-47 hrs
(See Academic Degrees and Programs.)

University Studies selections must include:
• Scientific Inquiry, Methodologies, and Quantitative Skills:
  MAT 135 Introduction to Probability and Statistics
• Social and Self-Awareness and Responsible Citizenship:
  POL 140 American National Government
• University Studies Electives:
  CSC 199 Introduction to Information Technology
  PSY 180 General Psychology
  SOC 133 Introduction to Sociology
  SOC 231 Social Problems

Required Courses .............................................35 hrs

CRJ 099 Transitions
CRJ 140 Introduction to Criminal Justice

CRJ 220 Law Enforcement
CRJ 240 Corrections
CRJ 300 Crime and Criminals
CRJ 320 Juvenile Justice
CRJ 325 Criminal Justice Ethics
CRJ 350 Violent Crime
CRJ 400 Applied Criminal Justice Research
CRJ 445 Criminal Justice Diversity
CRJ 499 Senior Seminar in Criminal Justice
CRJ 544 Constitutional and Legal Issues in Criminal Justice
   and one of the following:
   ENG 204 Advanced Expository Writing
   ENG 205 Writing for the Social Science
   ENG 224 Writing in the Professions
   ENG 324 Technical Writing

Required CRJ Electives .......................................15 hrs
To be selected with advisor approval.
Note: Only six hours of credit toward the area may be received from CRJ 305, 488, or 489. CRJ 448 may be repeated as long as the topic differs.

Collateral/Support Courses .............................17-19 hrs
At least six hours of the following courses must be completed at the 300-level or above in order to meet graduation requirements.

Business – select one course from the following:

ACC 200 Principles of Financial Accounting
BUS 140 Foundations of Business
BUS 215 Business Communication
BUS 360 Principles of Office Administration
ECO 140 Contemporary Economics
ECO 190 Consumer Economics
ECO 200 Economics and Politics
FIN 230 Personal Financial Planning
MGT 250 Introduction to Management: Taking the Lead
MGT 350 Fundamentals of Management
MKT 260 Introduction to Marketing

Critical Thinking, Computers and Technology – select one course from the following:
BUS 235 Records Management
CIS 200 Business Application Modeling Using Spreadsheet
   and Database Software
COM 261 Debate and Advocacy
COM 367 Communication and Critical Thought
COM 422 Communication and Technology
CSC 101 Introduction to Problem Solving Using Computers
CSC 125 Internet and Web Page design
EGR 140 Introduction to computing Applications in Science
   and Engineering
ENG 226 Argument and Discourse
MKT 285 Emerging Technologies in Marketing
PHI 103 Critical Thinking
PHI 203 Symbolic Logic
PSY 327 Problem-Solving and Decision-Making
REC 410 Application of Technology to Recreation Decision
   Making
TSM 132 Network Technical Support

Communications – select one course from the following:
COM 131 Introduction to Interpersonal Communication
COM 331 Interpersonal Communication
COM 353 Team Communication and Leadership
COM 361 Career Presentations
College of Health Sciences and Human Services

Criminal Justice Minor .................................................. 21 hrs
CRJ 140 and CRJ 300; two courses from CRJ 220, 240, 320, or 355; and nine hours of CRJ electives approved by a CRJ advisor. Only three hours are allowed from CRJ 305, 488, or 489. At least 12 hours must be completed at the upper-level, six of which must be completed in residence at Murray State University. Students must maintain a 2.50 overall GPA and can only apply courses in which they earned a C or higher toward the minor. A minimum grade of C in ENG 105 is required of all students (including transfers) minoring in criminal justice. Students are expected to take the necessary prerequisites listed under CRJ course descriptions. No substitutions and/or alterations in the above curriculum shall be made without written approval of the criminal justice program director. A minimum 2.50 overall GPA is required for admission and retention in the criminal justice minor.

Recreation and Leisure Services
The Recreation and Leisure Services program offers a B.A./B.S. degree with a tracks in adventure leadership, and community recreation preparing students for careers in a variety of settings including local, state, regional, and national parks and recreation areas. Through service learning courses and a 400 contact hour internship, students have many opportunities to gain valuable work experience prior to graduation. Upon successfully completing the program, students are eligible to sit for the Certified Park and Recreation Professional (CPRP) national exam.

Note: With the exception of first semester freshmen, all students must have a cumulative GPA of 2.0 or higher and have completed all developmental courses prior to declaring recreation and leisure services as an area.

AREA:
Recreation and Leisure Services/Adventure Leadership Track

Bachelor of Science/Bachelor of Arts Degree
CIP 31.0601

University Studies Requirements ..........................41-47 hrs
(See Academic Degrees and Programs.)
Note: At least a C average is required in ENG 105.

University Studies selections must include:
Social and Self-Awareness and Responsible Citizenship:
PSY 180 General Psychology

• University Studies Electives:
ENG 224 Writing in the Professions

Required Courses .................................................... 50 hrs
REC 099 Transitions
REC 101 Introduction to Recreation and Leisure Services
REC 150 Recreation Activity Leadership
REC 202 Recreation Program Planning
REC 207 Inclusive Recreation
REC 302 Special Event Management
REC 304 Community Recreation Service Learning
REC 401 Research and Evaluation in Recreation
College of Health Sciences and Human Services

Health Sciences and Human Services

REC 403 Managing Recreation Areas and Facilities
REC 405 Organization and Administration of Recreation
REC 410 Technology Application to Recreation Decision Making
REC 421 Professional Internship
REC 450 Recreational Use of Natural Resources
REC 465 Interpretation of Cultural and Natural Resources
REC 499 Senior Seminar
REC 502 Workshop in Financial Development
REC 520 Leisure and Aging

Adventure Leadership Track........................................16 hrs
REC 161 Outdoor Cooking and Menu Planning
REC 295 Wilderness and Remote First Aid
REC 301 Outdoor Adventure Skills
REC 311 Leadership of Adventure Education
REC 411 Curriculum Development in Adventure Education
REC 490 National Recreation Sites and Rural Tourism Traveling Workshop

Restricted Electives..................................................7-13 hrs
Choose from the following:
AGR 109 Beginning Horsemanship Experience
BIO 103 Saving Planet Earth
BIO 112 Field Biology
COM 260 Communication Ethics
COM 353 Team Communication and Leadership
ENG 371 Literature and the Environment
GCM 250 Fundamentals of Photography
PSY 327 Problem-Solving and Decision-Making
REC 102 Camp Leadership and Counseling
REC 112 Open Water Scuba Diving I
REC 129 Basic Canoeing
REC 162 Backpacking and Outdoor Living
REC 163 Caving
REC 164 Rock Climbing
REC 264 Intermediate Rock Climbing
REC 350 Extended Backcountry Travel
REC 395 Wilderness and Remote First Aid Instructor

Total Curriculum Requirements ....................................120 hrs

AREA:
Recreation and Leisure Services/Community Recreation Track

Bachelor of Science/Bachelor of Arts Degree
CIP 31.0601

University Studies Requirements .......................41-47 hrs
(See Academic Degrees and Programs.)
Note: At least a C average is required in ENG 105.

University Studies selections must include:
Social and Self-Awareness and Responsible Citizenship:
PSY 180 General Psychology

University Studies Electives:
ENG 224 Writing in the Professions

Required Courses ..................................................50 hrs
REC 099 Transitions
REC 101 Introduction to Recreation and Leisure Services
REC 150 Recreation Activity Leadership
REC 202 Recreation Program Planning
REC 207 Inclusive Recreation
REC 302 Special Event Management
REC 304 Community Recreation Service Learning
REC 401 Research and Evaluation in Recreation
REC 403 Managing Recreation Areas and Facilities
REC 405 Organization and Administration of Recreation
REC 410 Technology Application to Recreation Decision Making
REC 421 Professional Internship
REC 450 Recreational Use of Natural Resources
REC 465 Interpretation of Cultural and Natural Resources
REC 499 Senior Seminar
REC 502 Workshop in Financial Development
REC 520 Leisure and Aging

Community Recreation Track.................................18 hrs
HEA 191 Personal Health
PHE 205 Lifetime Activities
PHE 206 Team Sports
REC 100 Rural Tourism
SOC 231 Social Problems
YNL 351 Leadership and Support Systems in Youth and Human Service Organizations

Restricted Electives..................................................5-11 hrs
Choose from the following:
BIO 103 Saving Planet Earth
GCM 250 Fundamentals of Photography
PHE 205 Lifetime Activities
PHE 285 Football and Basketball Officiating
PHE 289 Officiating Soccer
PHE 310 Fundamentals of Athletic Coaching
REC 301 Outdoor Adventure Skills
SOC 320 Music, Culture, and Society
SOC 331 The Family
YNL 290 Current Trends and Issues in Youth and Human Services

Total Curriculum Requirements ..............................120 hrs

Adventure Leadership Minor ..................................23 hrs
REC 101, 150, 161, 207, 295, 301, 311, 411, and 450. Six hours must be upper-level courses completed in residence at Murray State University.

Community Recreation Minor ..................................23 hrs
REC 101, 150, 202, 207, 302, and 403. Choose six hours of electives from the following: REC 100, 401, 405, 410, 450, 490, or 520. Six hours must be upper-level courses completed in residence at Murray State University.

Social Work

The primary purpose of the social work program is to prepare students for entry-level professional generalist practice as social workers in a variety of social service agencies and organizations. To accomplish this purpose, a well-developed curriculum is offered that is responsive to the social problems and issues confronting society today, and which provides students a stimulating and provocative approach to preparing themselves for a social work career. The undergraduate social work program has been accredited by the Council on Social Work Education since 1974.

The social work program is designed to meet the career interests of students in such fields as family and children’s services, health, mental health, aging, education and corrections.
Undergraduate social work practitioners work in such settings as: recreational programs for children; group homes; public and private child welfare programs; public assistance programs; public housing programs; domestic violence shelters; hospitals; nursing homes; home health agencies; programs serving the chronically mentally ill; alcohol/drug rehabilitation and prevention programs; programs serving persons with physical and/or developmental disabilities; senior citizens programs; preschools; elementary and secondary schools; probation and parole; prisons and other court-related programs. Another important function of the program is to provide a sound academic foundation for students entering graduate study in social work or related fields of human service.

Students must earn a grade of C or better in all social work course work. Any social work course with a grade of less than C must be repeated. Students must have a GPA of at least 2.5 in social work program courses, and a minimum overall GPA of 2.5 in order to be graduated.

**Requirements for Admission**

In order to be admitted to the social work program, a student must 1) have completed 60 semester hours of course work with a minimum GPA of 2.50; 2) have completed SWK 101, 201, 225, and 301 or 302 with a minimum GPA of 2.50 and no grades in a SWK class below C; 3) complete an application for admission to the program; 4) be successfully reviewed by the social work program admissions committee; 5) complete any other requirements or testing that the social work program admissions committee members deem necessary for admission; and 6) sign a statement indicating that he/she has read and will follow the Code of Ethics of the National Association of Social Workers.

**Field Practicum**

In order to be admitted to SWK 499 Field Practicum, a student must 1) have been formally admitted to the social work program; 2) have completed SWK 310, 311, 312, 313, and 498; and 3) be successfully reviewed by the social work program education review committee, and 4) must have completed all other course work needed for graduation. No student is guaranteed a field placement since agencies have final authority to accept or reject a potential student.

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**AREA:**

**Social Work**

**Bachelor of Social Work Degree**

CIP 44.0701

**ACCREDITED BY:**

Council on Social Work Education (CSWE)

**University Studies Requirements** .........................41-44 hrs

University Studies selections must include:

- **Oral and Written Communication:**
  - COM 161 Introduction to Public Speaking
  - ENG 105 Critical Reading, Writing, and Inquiry

- **Global Awareness, Cultural Diversity, and the World's Artistic Traditions:**
  - One University Studies elective in this category

- **Scientific Inquiry, Methodologies, and Quantitative Skills:**
  - One University Studies BIO course in this category
  - MAT 135 Introduction to Probability and Statistics
  - One University Studies math or science elective in this category

- **Social and Self-Awareness and Responsible Citizenship:**
  - POL 140 American National Government
  - SOC 133 Introduction to Sociology

One University Studies elective in this category

- **World's Historical, Literary, and Philosophical Traditions:**
  - CIV 201 World Civilizations I
  - CIV 202 World Civilizations II
  - HUM 211 Western Humanities Tradition

- **University Studies Electives:**
  - CSC 199 Introduction to Information Technology
  - PSY 180 General Psychology

**Required Courses** ...........................................52 hrs

- SWK 099 Transitions
- SWK 101 Introduction to Social Work
- SWK 201 Social Work and Social Welfare
- SWK 225 Human Diversity
- SWK 301 Human Behavior and the Social Environment I
- SWK 302 Human Behavior and the Social Environment II
- SWK 303 Principles and Methods of Research
- SWK 310 Social Work Practice I
- SWK 311 Social Work Practice Skills
- SWK 312 Social Work Practice II
- SWK 313 Social Work Practice III
- SWK 350 Social Welfare Policies and Services
- SWK 385 Social Work in Mental Health Settings
- SWK 498 Senior Seminar
- SWK 499 Field Practicum

**Social Work Electives** .......................................15 hrs

Choose two upper division social work (SWK) classes with exception of SWK 500. The other nine hours may be chosen from any SWK courses.

**Co-Requirements for Area** .................................12 hrs

Any ECO course, any statistics course, and nine hours from the following prefixes: ANT, CRJ, NTN, PHI, PSY, RGS, SOC, SWK, or any foreign language course.

**Total Curriculum Requirements** .........................120-123 hrs

**Social Welfare Minor** ......................................21 hrs

SWK 101, 201, 225, 301, 302, and choose two of the following:


Social work minors are not permitted to take SWK 312, 313, 498, or 499. Six hours must be upper-level courses completed in residence at Murray State University.

**Gerontology**

Through this minor, students learn about the aging process, services for the elderly, and the techniques for working with the elderly. The 21-hour minor in social gerontology combines course work in several disciplines including sociology, social work, psychology and therapeutic recreation. A minor in gerontology provides students with the background they need to provide services to older people.

**Gerontology Minor** .........................................21 hrs

GTY 264, 305, 341, 520, plus nine hours of limited electives. Six hours must be upper-level courses completed in residence at Murray State University.
Youth and Nonprofit Leadership

The Youth and Nonprofit Leadership Program is designed to develop the next generation of nonprofit sector leaders, prepared to engage as highly effective and dedicated professionals committed to improving the quality of life for people around the world. The nonprofit sector is highly diverse, addressing issues and needs related to health services, education, social and legal services, civic and environmental advocacy, international relations and development, arts and culture, and youth and human services. Example organizations include the American Red Cross, Boy and Girl Scouts of America, Feeding America, Habitat for Humanity, Humane Society, National Urban League, United Way, World Vision, YMCA, 4-H and a range of institutions in the healthcare, higher education, and faith-based commitments.

Through the Program students will obtain knowledge and skills in the areas of program development, marketing and public relations, financial resource development and management, cultural competency and diversity, volunteer and human resource management, as well as many other competencies needed to work in and lead nonprofit organizations. The Program integrates teaching, research, and service to develop the skills, provide the experiences, and nurture the spirit and passion required of effective leadership. The Program is a member of the national Nonprofit Leadership Alliance, which is committed to “strengthening the social sector with a talented, prepared workforce”. All graduates from the Program will be able to earn a National Certification in Nonprofit Management and Leadership from the Alliance and be recognized as a “Certified Nonprofit Professional” (CNP).

Additionally, most classes in the Program involve a service-learning project and can help students earn the designation of Service Learning Scholar at graduation.

Note: With the exception of first semester freshmen, all students must have a cumulative GPA of 2.0 or higher and have completed all developmental courses prior to declaring Youth and Nonprofit Leadership as a major. The major is offered as a B.A. or B.S. and requires a minor. (A second major can replace the required minor.)

MAJOR:
Youth and Nonprofit Leadership

Bachelor of Arts/Bachelor of Science Degree
CIP 44.0702

University Studies Requirements ......................41-47 hrs
(See Academic Degrees and Programs.)

University Studies selections must include:
• Social and Self-Awareness and Responsible Citizenship:
  PSY 180 General Psychology
• University Studies Electives:
  CSC 199 Introduction to Information Technology

Required Courses ...........................................29 hrs
YNL 099 Transitions
YNL 290 Current Trends and Issues in Youth and Human Services
YNL 350 Program Administration in Youth and Human Service Organizations
YNL 351 Leadership and Support Systems in Youth and Human Service Organizations
YNL 400 Youth and Human Service Agency Administration Internship
YNL 401 Youth and Human Service Internship
YNL 450 Senior Seminar
YNL 475 Social Entrepreneurship
YNL 485 Seminar on Leadership Development
YNL 502 Workshop in Financial Resource Development
YNL 580 Special Problems in Youth and Human Service Organizations

Choose from the following:
COM 340 Intercultural Communication
COM 380 Organizational Communication
COM 439 Conflict and Communication
HEA 191 Personal Health
MGT 350 Fundamentals of Management
MGT 550 Human Resource Management
MKT 360 Principles of Marketing
OSH 101 Emergency Medical Training
PHI 202 Ethics
PSY 261 Child Psychology
PSY 262 Adolescent Psychology
REC 403 Managing Recreation Areas and Facilities

Required Minor..................................................21 hrs

Unrestricted Electives.......................................14-20 hrs

Total Curriculum Requirements .........................120 hrs

Youth and Nonprofit Leadership Minor..................25 hrs
YNL 290, 350, 351, 400, 401, 450, 502, and six hours of limited electives. Six hours must be upper-level courses completed in residence at Murray State University.

Graduate Program

CERTIFICATE:
Youth and Nonprofit Leadership

CIP 44.0702

The Youth and Nonprofit Leadership Certificate program is designed for individuals working in positions such as administrative, program development, or direct services positions in a wide range of settings. This certificate will provide additional information and skills for those with leadership responsibilities or for those wanting to move toward assuming a greater leadership role. The courses focus on the self; working with diverse individuals and cultures; developing an understanding of and how to utilize assessments in non-clinical settings; and understanding the process of working in and with groups. This program leads to a non-practice credential and is not approved by the Kentucky Educational Professional Standards Board.

Requirements for Admission

Students who hold an undergraduate degree, graduate degree in any field, or those currently enrolled in a graduate program may apply for the Certificate in Youth and Nonprofit Leadership program.

Applicants must comply with the Murray State University requirements (see Graduate Admissions). Additional requirements for unconditional admission are as follows:
• for unconditional admission, an undergraduate GPA of 3.0 or higher;
• conditional admission will be determined by the Director of the Youth and Nonprofit Leadership program.

Total Course Requirements ........................................... 12 hours
YNL 601 Seminar on Youth and Human Service Organization
YNL 602 Workshop in Financial Resource Development
YNL 680 Special Problems in Youth and Human Service Organizations
YNL 685 Seminar on Leadership Development

Department of Occupational Safety and Health
157 Collins Center
270-809-2488

Chair: David G. Kraemer. Faculty: Atieh, Byrd, Fender, Keller, Kraemer, Mason, Morris, Wortham.

The Department of Occupational Safety and Health provides related curriculum offerings at the baccalaureate and master's levels. Service courses are offered for individuals majoring in other fields such as business, science, health, psychology, education, and engineering technology. The department also offers a technical minor and a Master of Science degree. The degree programs are designed to provide the technical and professional knowledge required by individuals pursuing professional careers in accident prevention, loss-control management and supervision, inspection and control of occupational hazards, industrial hygiene or environmental health and safety.

Occupational Safety and Health Track
This track is designed to provide the technical and professional knowledge required by individuals pursuing professional careers in accident prevention, loss control management and supervision, inspection and control of occupational hazards, and industrial hygiene.

Environmental Health and Safety Track
This track is designed to provide the technical and professional knowledge required by individuals pursuing professional careers in environmental issues and affairs such as water quality, air quality, and solid and hazardous waste management.

Degree Requirements
All occupational safety and health majors and minors must earn a grade of C or better in all OSH courses. A cumulative grade point average of at least 2.25 is required prior to enrollment in all 400- and 500-level OSH courses. A cumulative grade point average of at least 2.25 must be maintained to graduate.

AREA:
Occupational Safety and Health/ Occupational Safety and Health Track

Bachelor of Science
CIP 15.0701

ACCRREDITED BY:

University Studies Requirements ......................... 44 hrs
(See Academic Degrees and Programs.)

University Studies selections must include:
• Scientific Inquiry, Methodologies, and Quantitative Skills:
  BIO 101 Biological Concepts
  CHE 105 Introductory Chemistry I
  MAT 230 Technical Math II
• Social and Self-Awareness and Responsible Citizenship:
  PSY 180 General Psychology
• University Studies Electives:
  CHE 210 Brief Organic Chemistry
  CHE 215 Organic Chemistry Laboratory
  PHY 125 Brief Introductory Physics
  PHY 126 Brief Introductory Physics Lab

Required Core Courses ............................................. 52-53 hrs
CSC 199 Introduction to Information Technology
ITD 120 Manufacturing Processes and Materials
MAT 135 Introduction to Probability and Statistics or
PSY 300 Principles and Methods of Statistical Analysis
MGT 350 Fundamentals of Management
OSH 099 Transitions
OSH 192 Introduction to Occupational Safety and Health
OSH 287 OSHA Standards for General Industry and Construction
OSH 299 Professional Development Seminar I
OSH 310 Fire and Emergency Preparedness Preplanning
OSH 311 Hazardous Materials and Emergency Planning
OSH 320 Environmental and Occupational Health Engineering Technology
OSH 353 Prevention of Musculoskeletal Disorders in the Workplace
OSH 420 Fundamentals of Industrial Hygiene
OSH 425 Physical Agents
OSH 450 Practical Application Lab
OSH 452 Systems Approach to Hazard Control
OSH 488 Cooperative Education/Internship
OSH 550 Safety and Health Program Management and Training
OSH 591 Engineering and Technical Aspects of Safety

Safety Courses .................................................. 30 hrs
OSH 101 Emergency Medical Training
OSH 384 Construction Safety
OSH 445 Fundamentals of Loss Control
OSH 546 Fundamentals of Risk Control
Technical electives (14 hrs)

Must be approved by advisor and chosen from the Technical Electives list below and/or the Environmental Health and Safety Track)
Technical Electives (choose from the following)
CET 310 Anatomy of Buildings
CET 331 Water Quality Technology II
CET 385 Heavy Construction Cost Estimating
or
CET 386 Building Construction Cost Estimating
CET 480 Construction Planning and Management
CET 555 Environmental Regulatory Affairs
CHE 120 Chemical Laboratory Safety
CHE 330 Basic Biochemistry
COM 340 Intercultural Communication
COM 384 Communication Skills for Professionals
COM 439 Conflict and Communication
CRJ 140 Introduction to Criminal Justice
CRJ 355 Security in Business and Industry
ENG 228 Standard English Usage
MGT 550 Human Resource Management
MGT 555 Training and Development
MGT 575 Labor Management Relations
OSH 371 Professional Internship II
OSH 453 Human Factors in Safety Engineering
OSH 488 Cooperative Education/Internship
OSH 499 Professional Development Seminar II
OSH 536 Motor Fleet Safety
OSH 571 Problems in Safety and Health
OSH 578 Workshop in Safety and Health
PSY 405 Industrial and Organizational Psychology
SPA 106 Basic Spanish and Culture for Agriculture

Total Curriculum Requirements .......................... 126-127 hrs

1CSC 199 can be substituted by another computer related course with advisor's approval.
2May be repeated for a second experience.

AREA:
Occupational Safety and Health/Environmental Health and Safety Track

Bachelor of Science
CIP 15.0701

ACCREDITED BY:

University Studies Requirements .......................... 44 hrs
(See Academic Degrees and Programs.)

University Studies selections must include:
• Scientific Inquiry, Methodologies, and Quantitative Skills:
  BIO 101 Biological Concepts
  CHE 105 Introductory Chemistry I
  MAT 230 Technical Math II
• Social and Self-Awareness and Responsible Citizenship:
  PSY 180 General Psychology
• University Studies Electives:
  CHE 210 Brief Organic Chemistry
  CHE 215 Organic Chemistry Laboratory
  PHY 125 Brief Introductory Physics
  PHY 126 Brief Introductory Physics Lab

Required Core Courses .......................... 52-53 hrs
CSC 199 Introduction to Information Technology
ITD 120 Manufacturing Processes and Materials
MAT 135 Introduction to Probability and Statistics
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OSH 192 Introduction to Occupational Safety and Health
OSH 287 OSHA Standards for General Industry and Construction
OSH 299 Professional Development Seminar I
OSH 310 Fire and Emergency Preparedness Preplanning
OSH 311 Hazardous Materials and Emergency Planning
OSH 320 Environmental and Occupational Health Engineering Technology
OSH 353 Prevention of Musculoskeletal Disorders in the Workplace
OSH 420 Fundamentals of Industrial Hygiene
OSH 425 Physical Agents
OSH 450 Practical Application Lab
OSH 452 Systems Approach to Hazard Control
OSH 488 Cooperative Education/Internship
OSH 550 Safety and Health Program Management and Training
OSH 591 Engineering and Technical Aspects of Safety

Environmental Health and Safety Courses ..................... 30 hrs
CET 330 Water Quality Technology I
CET 342 Air Quality Technology
CET 353 Solid Hazardous Waste Technology
OSH 511 Hazardous Waste Site Operations
OSH 523 Occupational Diseases
OSH 527 Air Contaminants and Industrial Ventilation
Technical electives (12 hrs)
Must be approved by advisor and chosen from the Technical Electives list below and/or the Occupational Safety and Health Track)

Technical Electives (choose from the following)
CET 310 Anatomy of Buildings
CET 331 Water Quality Technology II
CET 385 Heavy Construction Cost Estimating
or
CET 386 Building Construction Cost Estimating
CET 480 Construction Planning and Management
CET 555 Environmental Regulatory Affairs
CHE 120 Chemical Laboratory Safety
CHE 330 Basic Biochemistry
COM 340 Intercultural Communication
COM 384 Communication Skills for Professionals
COM 439 Conflict and Communication
CRJ 140 Introduction to Criminal Justice
CRJ 355 Security in Business and Industry
ENG 228 Standard English Usage
MGT 550 Human Resource Management
MGT 555 Training and Development
MGT 575 Labor Management Relations
OSH 371 Professional Internship II
OSH 453 Human Factors in Safety Engineering
OSH 488 Cooperative Education/Internship
OSH 499 Professional Development Seminar II
OSH 536 Motor Fleet Safety
OSH 571 Problems in Safety and Health
OSH 578 Workshop in Safety and Health
PSY 405 Industrial and Organizational Psychology
SPA 106 Basic Spanish and Culture for Agriculture
Total Curriculum Requirements ......................... 126-127 hrs

1. CSC 199 can be substituted by another computer related course with advisor’s approval.
2. May be repeated for a second experience.

Occupational Safety and Health Minor .................. 22 hrs
OSH 101, 192, 287, 420, and six hours from OSH 320, 353, 384, 452. Six hours must be upper-level courses completed in residence at Murray State University.

Graduate Program

The graduate program in occupational safety and health is unique in this region. In light of an increased sensitivity to the safety of the work environment and to the overall health of all Americans, the program is a timely response to business and industry needs. Few programs of this type are found in higher education.

Requirements for Admission

Applicants must meet the Murray State University requirements (see Graduate Admissions). Additional requirements for unconditional and conditional admission are as follows.

Unconditional

Unconditional Admission status is granted only to students who graduate from Murray State University with a baccalaureate degree in occupational safety and health with an overall GPA of 3.00 or higher.

All other students regardless of GPA, field of study, and GRE results are admitted to the program with Conditional Admission status. To move into Unconditional status, the student must meet the university requirement of obtaining a 3.00 in the first nine hours of graduate work and additional criteria set forth by the Department of Occupational Safety and Health.

Conditional

The following Conditional status will be based on undergraduate GPA, regardless of undergraduate baccalaureate degree field or major.

- 2.99 - 2.50: Conditional
- 2.49 - 2.25: Conditional after a thorough transcript evaluation
- 2.24 - 2.00: Conditional after evaluation and probationary admission (The student must be enrolled as full-time and maintain a GPA of 3.30 for the first nine graduate credit hours.)

Students admitted from a different undergraduate field/discipline must complete the following course work in addition to the above GPA requirements. Undergraduate coursework is required in biology, chemistry, mathematics, and physics. The following courses are the minimum accepted requirements for pursuing a master’s degree in occupational safety and health.

- BIO 101
- CHE 105
- CHE 210 and 215

Students must also complete 21 prerequisite credit hours in occupational safety and health and pass these courses with a grade of C or higher.

Prerequisite Undergraduate Requirements .......... 21 hours
OSH 192 Introduction to Occupational Safety and Health
OSH 287 OSHA Standards for General Industry and Construction

OSH 320 Environmental and Occupational Health Engineering Technology
OSH 353 Prevention of Musculoskeletal Disorders in the Workplace
OSH 420 Fundamentals of Industrial Hygiene
OSH 452 Systems Approach to Hazard Control and one of the following concentration-specific courses:

- Environmental
  OSH 311 Hazardous Materials and Emergency Planning
- Safety Management
  OSH 384 Construction Safety
- Industrial Hygiene
  OSH 425 Physical Agents

Master of Science in Occupational Safety and Health

CIP 15.0701

ACCREDITED BY:

Within departmental guidelines, the individual student’s program is developed in consultation with advisor.

THESIS REQUIREMENTS

Total Course Requirements .................................. 30 hours

Technical Requirements1 .................................. 12 hrs
Choose four from the following:
OSH 621 Industrial Hygiene and Safety Program Development
OSH 623 Occupational Diseases
OSH 626 Industrial Hygiene Sampling Strategies
OSH 636 Motor Fleet Safety
OSH 637 Biostatistics and Probability
OSH 640 Safety and Health Program Management and Training
OSH 645 Loss Control Measurement and Management
OSH 646 Fundamentals of Risk Control
OSH 654 Philosophy of Safety and Health
OSH 655 Legal Aspects of Safety and Health
OSH 656 Ergonomics and Biomechanics
OSH 658 Introduction to Occupational Epidemiology
OSH 670 Internship in Safety and Health PT
OSH 680 Graduate Seminar in Occupational Safety and Health

Thesis ......................................................................... 6 hrs
OSH 698-699 Thesis

1. Technical requirements courses are selected based on the student’s program concentration and must be approved by the graduate program advisor.
NON-THESIS REQUIREMENTS

Total Course Requirements................................................. 30 hours

Same as above with the following substitution for thesis:

OSH 670 Internship in Safety and Health\textsuperscript{k}
(or approved elective with prior safety internship or equivalent)
OSH 680 Graduate Seminar in Occupational Safety and Health

All students (Thesis or Non-Thesis) must also complete 12 credit hours by selecting one of the following three concentrations. Substitutions within these concentrations can be made only with the approval of the advisor. Consult with advisor when choosing a concentration. Additional coursework may be required.

**Safety Management Concentration.................................. 12 hrs**
OSH 621 Industrial Hygiene and Safety Program
OSH 650 Occupational Safety and Health Organizational Leadership and Management
OSH 655 Legal Aspects of Safety and Health
OSH 657 Current Literature and Research in Safety and Health\textsuperscript{l}

**Industrial Hygiene Concentration................................. 12 hrs**
OSH 621 Industrial Hygiene and Safety Program
OSH 622 Toxicology of Industrial Materials
OSH 627 Air Contaminants and Industrial Ventilation
OSH 663 Applied Workplace Ergonomics

**Environmental Concentration............................... 12 hrs**
OSH 627 Air Contaminants and Industrial Ventilation
OSH 687 Wastewater Treatment
OSH 689 Solid and Hazardous Waste Treatment
OSH 697 Research in Environmental Health and Safety\textsuperscript{a}

or

An approved higher-level course in environmental science

**Other Degree Requirements**
- Comprehensive examination (Non-thesis track).
- Students with no adequate undergraduate statistics preparation must take OSH 637.