



# College of Health Sciences and Human Services

James C. Broughton, Dean  
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107C Applied Science Building

270-809-3590



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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 is to produce outstanding professionals in health science and human service disciplines to meet the needs of the region, state, and nation.

The college aims to promote excellence in all programs by offering undergraduate and graduate curricula that are state-of-the-art and responsive to a changing society. Students learn through extensive hands-on training in a variety of clinical, practicum, and internship experiences. Such experiences insure that our students are prepared both academically and experientially for their chosen professions.

### Programs

The College of Health Sciences and Human Services is organized into four departments: Nursing; Occupational Safety and Health; Social Work, Criminal Justice and Gerontology; and Wellness and Therapeutic Sciences.

The **Department of Nursing** offers a Bachelor of Science in Nursing (B.S.N.); a Registered Nurse to Bachelor of Science in Nursing (R.N.-B.S.N.), and a Master of Science in Nursing (M.S.N.).

Both the B.S.N. and M.S.N. degree programs are accredited by the Commission on Collegiate Nursing Education. The Trover Foundation/MSU program in anesthesia is accredited by the Council on Accreditation of Nurse Anesthesia Education Programs.

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 options: occupational safety and health and environmental safety and health. The department also offers a technical minor in occupational safety and health.

Both the B.S. and M.S. degree programs are accredited by the Applied Science Accreditation Commission of the Accreditation Board for Engineering and Technology (ASAC/ABET).

The **Department of Social Work, Criminal Justice and Gerontology** offers the following degrees Bachelor of Social Work (B.S.W.), and a bachelor of arts or science in criminal justice. The department also offers two minors—one in criminal justice and one in social gerontology. Students in the degree programs gain hands-on experience by working in a variety of settings in regional and state agencies.

The B.S.W. degree program is accredited by the Council on Social Work Education.

The **Department of Wellness and Therapeutic Sciences** offers the following programs dealing with health promotion and therapeutic sciences.

Bachelor degrees are offered in communication disorders and a master of science degree 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.

Bachelor degrees are offered in exercise science with options in pre-occupational therapy, pre-physical therapy, and wellness. A bachelor of science degree is also 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 of science degree is offered in nutrition, dietetics and food management with an emphasis in either dietetics, food management, or consumer nutrition. The graduate Dietetics Internship Program prepares students to become Registered Dietitians (R.D.).

Bachelor degrees are offered in recreation and leisure services with a concentration in outdoor recreation. Graduates of this program are eligible to take the national examination to become Certified Park and Recreation Professionals (C.P.R.P.).

A minor in youth and nonprofit leadership is offered through the department's American Humanics program. This program 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.

The following degree programs hold national accreditations: M.S. in speech pathology (Council of Academic Accreditation of the American Speech-Language-Hearing Association); B.S. in athletic training (Commission on Accreditation of Athletic Training Education); and both the undergraduate and graduate programs in Nutrition, Dietetics and Food Management (Commission on Accreditation for Dietetics Education of the American Dietetic Association).

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## Department of Nursing

121 Mason Hall  
270-809-2193

[nursing@murraystate.edu](mailto:nursing@murraystate.edu)

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**Chair:** Michael Perlow. **Faculty:** Byers, Farrell, France, Garth, Kearney, Lovett, Mailow, Manley, Naber, Perlow, Smith.

The Department of Nursing offers two degree programs, the baccalaureate program leading to the Bachelor of Science in Nursing (B.S.N.) and the Master of Science in Nursing (M.S.N.), both of which are accredited by the Commission on Collegiate Nursing Education. The M.S.N., Anesthesia Option, is also accredited by the Council on Accreditation of Nurse Anesthesia Educational Programs.

The purpose of the undergraduate nursing program is to prepare:

- a liberally educated individual;
- a professional graduate who practices as a generalist;
- one who is qualified to pursue graduate study in nursing.

Upon completing the program of study, students will be eligible to apply to write the licensing examination for registered nurses (NCLEX-RN)<sup>1</sup>.

The baccalaureate nursing program is composed of two semesters of pre-nursing and six semesters of full-time study in the arts, sciences, and nursing. Upon completion of necessary prerequisite courses, students may apply for formal admission to the nursing program. This typically occurs the beginning of the sophomore year of study. The student should request the application from the assigned faculty advisor. Proof of up-to-date immunizations, tuberculin testing, and CPR certification must be submitted with the application. The prerequisite courses for admission consideration are ENG 105, BIO 101, BIO 227, BIO 228, CHE 111, MAT 140, and PSY 180. A grade point average of 2.50 and 30 hours completed are the minimum standards for admission into the program. Admission is competitive and based on available space. Students are expected to maintain a grade point average of at least 2.00 and may pursue either a full-time or part-time (with approval) course of study. Licensed practical nurses may apply for NUR 204 credit upon successful completion of NUR 200, 201, and 205.

Students must earn a grade of *C* or better in all course work. Students must pass both theory and clinical practice in all clinical nursing courses or the entire course must be repeated. Once a student has a clinical failure, the student will receive an *E* for the course and may not withdraw from the course, regardless of the university calendar. If a transfer student earned a *D* or *E* in a nursing course, it counts as a first failure in the MSU program. A student who must repeat a course is admitted to future courses on a space-available basis.

If a grade less than *C* is received in one nursing course, the student may repeat the course as soon as it is offered on a space-available basis. If a grade less than *C* is received in one nursing course for the second time, the course cannot be repeated and the student is not eligible for readmission. If two nursing courses are failed (less than a *C*), the student is dismissed from the program, and is not eligible for readmission to the same option (the options are basic B.S.N. and R.N.-B.S.N.).

Prior to admission to clinical experiences, students are responsible for obtaining, maintaining and providing official documentation of professional liability insurance (minimum of three million dollars). Admission deadlines are May 1, for fall semesters and the third week of November for spring semesters. Clinical facilities require drug screening and criminal background checks.

Students are responsible for the purchase of uniforms, miscellaneous equipment and transportation during their program of study. Undergraduate nursing course clinical hours are calculated on a one-credit-hour-to-three-clinical-hour ratio. Clinical courses usually require more clinical hours than are listed in the class schedules. Students are encouraged to check with advisors about the necessary time commitment.

Detailed information about these and other policies, such as academic honesty and confidentiality, is available from the Department of Nursing and in the *MSU Student Handbook*.

For further information write: Department of Nursing, Murray State University, 120 Mason Hall, Murray KY 42071-3302.

<sup>1</sup>Applicants must submit a certified copy of the court record of each misdemeanor or felony conviction and a letter of explanation that addresses each conviction. (201 KAR 20:270).

**AREA:  
Nursing**

**Bachelor of Science in Nursing Degree  
CIP 51.1601.01**

**ACCREDITED BY:**  
Commission on Collegiate Nursing Education (CCNE).

**University Studies Requirements .....43 hrs**

- 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:*  
BIO 101 Biological Concepts<sup>1</sup>  
*or*  
BIO 221 Zoology: Animal Form and Function  
MAT 135 Introduction to Probability and Statistics<sup>2</sup>  
MAT 140 College Algebra<sup>2</sup>
- Social and Self-Awareness and Responsible Citizenship:*  
PHI 202 Ethics<sup>2</sup>  
PSY 180 General Psychology<sup>2</sup>
- World's Historical, Literary, and Philosophical Traditions:*  
CIV 201 World Civilizations I *or*  
CIV 202 World Civilizations II  
HUM 211 Western Humanities Tradition
- University Studies Approved Electives:*  
CHE 111 Essentials of Chemistry and Biochemistry  
SOC 231 Social Problems<sup>2</sup>

**Required Courses.....80 hrs**

- BIO 227 Human Anatomy
- BIO 228 Human Anatomy Laboratory
- BIO 229 Human Physiology
- BIO 230 Human Physiology Laboratory
- CHE 111 Essentials of Chemistry<sup>1</sup>
- NUR 099 Transitions
- NUR 200 Introduction to Nursing Concepts
- NUR 201 Nursing Assessment
- NUR 203 Mental Health Nursing
- NUR 205 Pharmacology in Nursing
- NUR 206 Nursing Practice Fundamentals
- NUR 207 Nursing Informatics
- NUR 301 Pathophysiology
- NUR 302 Nursing Care of Childbearing Families
- NUR 305 Nursing Care of Childrearing Families
- NUR 306 Introduction to Research in Nursing
- NUR 307 Nursing Care of Adults I
- NUR 308 Nursing Care of Adults II
- NUR 314 Professional Nursing Practice (RNs only)
- NUR 400 Applied Pharmacology
- NUR 402 Psychiatric Nursing
- NUR 407 Integration Practicum (Basic BSN only)
- NUR 408 Nursing Care of Adults III
- NUR 409 Nursing Profession and Health Care Delivery
- NUR 410 Community Health Nursing
- NUR 412 Leadership and Management in Nursing

**Total Curriculum Requirements .....123 hrs**

<sup>1</sup>Required for area if not taken as University Studies elective.

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**AREA:  
Nursing/RN to BSN**

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**Bachelor of Science in Nursing Degree  
CIP 51.1601.02**

Registered nursing students may complete requirements for the baccalaureate degree in nursing at Murray State University. Selected nursing courses may be earned by validation. The remaining nursing hours are taken from the above nursing area curriculum.

**ACCREDITED BY:**  
Commission on Collegiate Nursing Education (CCNE).

**University Studies Requirements .....43 hrs**  
(see Chapter 4, University Studies Requirements)

University Studies selections must include:

•*Global Awareness, Cultural Diversity and the World's Artistic Traditions:*

Six hours chosen from **any** course in this category.

•*Scientific Inquiry, Methodologies and Quantitative Skills:*

MAT 135 Introduction to Probability and Statistics

or

Other departmental approved statistic courses

•*Social and Self-Awareness and Responsible Citizenship:*

Six hours chosen from **any** course in the Social and Self-Awareness and Responsible Citizenship category

and

PSY 180 General Psychology

**Note:** See required courses below before selecting mathematics and science University Studies electives.

**Required Courses.....79-80 hrs**

NUR 201 Nursing Assessment

NUR 306 Introduction to Research in Nursing

NUR 314 Introduction to the Process and  
Practice of Professional Nursing (RNs only)

NUR 409 The Nursing Profession and Health Care Delivery

NUR 410 Community Health Nursing

NUR 412 Leadership and Management in Nursing

*Nursing elective (3 hrs)*

**Courses required by validation or challenge**

NUR 205 Pharmacology in Nursing

NUR 302 Nursing Care of Childbearing Families

NUR 305 Nursing Care of Childrearing Families

NUR 307 Nursing Care of Adults I

NUR 308 Nursing Care of Adults II

NUR 402 Psychiatric Nursing

NUR 407 Integration Practicum (Basic BSN only)

**Total Curriculum Requirements .....122-123 hrs**

<sup>1</sup>Required for area if not taken as University Studies elective.

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

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**Chair:** David G. Kraemer. **Faculty:** Atieh, Begley, Byrd, Fender, Keller, Kraemer, Mason, Nichols, Wortham.

The Department of Occupational Safety and Health provides related curriculum offerings at the baccalaureate level. 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 provide the technical and professional knowledge required by individuals pursuing careers in accident prevention, loss-control management and supervision, inspection and control of occupational hazards, industrial hygiene or environmental health and safety.

The occupational safety and health option 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.

The environmental health and safety option 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.

Program options in the bachelor and master of science degrees in occupational safety and health are accredited by the Applied Science Accreditation Commission of ABET (ASAC/ABET).

**Degree Requirements**

Students must earn a grade of *C* or better in all OSH courses. Any OSH course with a grade below a *C* must be repeated if needed for graduation requirements.

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**AREA:  
Occupational Safety and Health**

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**Bachelor of Science  
CIP 15.0701**

**ACCREDITED BY:**  
Applied Science Accreditation Commission of ABET (ASAC/ABET).

**University Studies Requirements .....44 hrs**  
(see Chapter 4, University Studies Requirements)

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<sup>1</sup>
- 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 Industrial Hygiene I
- 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

**Required Option Courses.....30 hrs**

***Occupational Safety and Health Option***

- 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 approved by advisor (chosen from the Technical Electives list below and/or the Environmental Health and Safety Option)*

***Environmental Health and Safety Option***

- 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 approved by advisor (chosen from the Technical Electives list below and/or the Occupational Safety and Health Option)*

**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 384 Communication Skills for Professionals
- COM 387 Intercultural Communication
- COM 481 Conflict and Communication
- CRJ 355 Security in Business and Industry
- ENG 228 Standard English Usage
- MGT 350 Fundamentals of Management
- MGT 550 Human Resource Management

- MGT 555 Training and Development
- MGT 575 Labor Management Relations
- OSH 301 Product Liability
- OSH 371 Professional Internship II
- OSH 453 Human Factors in Safety Engineering
- OSH 488 Cooperative Education/Internship<sup>2</sup>
- 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 584 Industrial and Organizational Psychology

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

<sup>1</sup>CSC 199 can be substituted by another computer related course with advisor's approval.

<sup>2</sup>May be repeated for a second experience.

**Occupational Safety and Health Minor .....22 hrs**

OSH 101, 192, 287, 420, and six hours from OSH 310, 353, 452. Six hours must be upper-level courses completed in residence at Murray State University.

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**Department of Social Work,  
Criminal Justice and Gerontology  
101S Oakley Applied Science Building  
270-809-2506**

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**Chair:** Steven H. Jones **Faculty:** Chakradhar, Chavis, Ferreira, King, Lucko, Pittman-Munke, Wylie.

The Department of Social Work, Criminal Justice and Gerontology offers an area in social work, a major in criminal justice, and minors in social work, criminal justice and gerontology.

**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.

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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) may be asked to pass an examination to certify proficiency in written English; 4) complete an application for admission to the program; 5) be successfully reviewed by the social work program admissions committee; 6) complete any other requirements or testing that the social work program admissions committee members deem necessary for admission; and 7) 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, 312, 313 and 498; and 3) be successfully reviewed by the social work field 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.

### 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.

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#### AREA:

#### Social Work

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#### 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 elective 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

or

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.*

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

*Any ECO 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

#### 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.

#### Social Welfare Minor .....21 hrs

SWK 101, 201, 225, 301, 302, and choose two of the following: SWK 303, 304, 311, 315, 336, 345, 350, 355, 365, 370, 375, 385, 395, 405, 410, 415, 425, 426, 437, or 460. 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.

#### Criminal Justice

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.

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 major further develops the student's oral, written, analytical, leadership, and problem-solving skills. Internship experiences are available during the junior and senior years in a variety of agencies.

The faculty encourages all students to be actively involved in student organizations, which provide a way for students to network with criminal justice practitioners. 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**

In order to be admitted to the criminal justice major or minor, a student must 1) have completed 30 semester hours with a minimum GPA of 2.50; and 2) have completed CRJ 140 with a C or better. All students declaring, transferring in, or changing to criminal justice must follow the graduation requirements in the latest *MSU Bulletin*. Transfer students and new intended majors must take CRJ 099 and CRJ 140 prior to full admission to the criminal justice program.

**MAJOR:  
Criminal Justice<sup>1</sup>**

**Bachelor of Arts/Bachelor of Science Degree  
CIP 43.0104**

**Note:** All criminal justice majors and minors must: 1) maintain a GPA of 2.50 in all coursework taken at Murray State University; and 2) must earn a grade of C or better in all CRJ courses counting towards the major or minor, including CRJ electives. (Students who earn less than a C must repeat the course if it is a required course.) **All students must maintain a 2.50 or higher overall GPA to enroll in any CRJ 300-level or higher courses.**

**University Studies Requirements .....41-47 hrs**  
(see Chapter 4, University Studies Requirements)

University Studies selections must include:

- *Scientific Inquiry, Methodologies and Quantitative Skills:*  
MAT 135 Introduction to Probability and Statistics<sup>2</sup>
- *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

**Note:** Students must complete at least 30 hours with an overall 2.50 GPA or better and earn a grade of C or better in CRJ 140 to be admitted to the Criminal Justice major or minor. A minimum grade of C is required in ENG 105 for all students (including transfers) majoring or minoring in criminal justice. Transfer students and new intended majors and minors must take CRJ 099 and CRJ 140 prior to full admission to the criminal justice major or minor.

**Required Courses.....26 hrs**

- CRJ 099 Transitions
- CRJ 140 Introduction to Criminal Justice
- CRJ 220 Law Enforcement
- CRJ 240 Corrections
- CRJ 300 Crime and Criminals
- CRJ 303 Principles and Methods of Research
- CRJ 320 Juvenile Justice
- CRJ 325 Criminal Justice Ethics
- CRJ 445 Race, Ethnicity and Gender in Criminal Justice
- CRJ 499 Senior Seminar in Criminal Justice

**Required Limited Electives ..... 12 hrs**  
(*Approved by advisor.*)  
One 400/500-level CRJ elective (not CRJ 488 or 489)  
Three upper-level CRJ electives

**Note:** Only three hours of credit toward the major may be received from CRJ 305, 488, or 489.

**Required Minor<sup>3</sup>.....21 hrs**

**Career Related Electives .....14-20 hrs**  
(*Approved by advisor.*)

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

<sup>1</sup>No substitutions and/or alterations in the above curriculum shall be made without the written approval of a criminal justice faculty advisor.

<sup>2</sup>Students may take another MAT course and one of the following statistics course choices: MAT 135, PSY 300, or CIS 243 and CIS 343.

<sup>3</sup>A second major can replace the required minor.

**Criminal Justice Minor .....21 hrs**

CRJ 140 and 300; two courses from 220, 240, 320, or 355; and nine hours of CRJ electives approved by a department advisor. Only three hours are allowed from CRJ 305, 488, or 489. Six hours must be upper-level courses completed in residence at Murray State University. Students must maintain a 2.50 overall GPA and can only apply courses with a C or better 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 necessary prerequisites listed under CRJ course descriptions. No substitutions and/or alterations in the above curriculum shall be made without written approval of a criminal justice faculty advisor. A minimum 2.50 GPA is required for admission and retention in the criminal justice major or minor.

**Department of Wellness  
and Therapeutic Sciences**  
108 Carr Health Building  
270-809-6802  
wellness@murraystate.edu

**Chair:** Pearl Payne **Faculty:** *Communication Disorders*-Blodgett, Brown, Hammons, Hart, Kleinhans, Miller, Payne; *Exercise Science*-Dodd, Erdmann, P. Rice; *Nutrition, Dietetics and Food Management*-Crouch, Frame, B. Rice, Timmons; *Recreation and Leisure Services*-Brookhiser, Broughton, Gowen, Rogers; *Youth and Nonprofit Leadership*-Weis.

The Department of Wellness and Therapeutic Sciences is comprised of five program areas: athletic training, communication disorders, exercise science, nutrition, dietetics and food management, and recreation and leisure services. A minor in youth and nonprofit leadership is also offered.

**Communication Disorders**

The division of communication disorders 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. Students in the communication disorders program are strongly encouraged to study abroad.

## College of Health Sciences and Human Services

### Admission Requirements

Students may declare communication disorders as their area of choice at any point. However, students can not 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 semesters hours of coursework with a minimum GPA of 2.50; 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 2.50 and an area GPA of 2.75. 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; National Council for Accreditation of Teacher Education (NCATE)

#### University Studies Requirements .....41-47 hrs (see Chapter 4, University Studies Requirements)

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 Adult Disorders of Speech and Language  
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  
CDI 474 Elementary Clinical Skills (2 semesters)  
CDI 482 Augmentative Alternative Communication  
ENG 310 Linguistics and English Grammars

#### Required Support Courses.....21 hrs

CDI 480 School Services for Communication Disorders  
EDP 260 Psychology of Human Development  
or  
PSY 260 Lifespan Development  
SED 300 Educating Students with Disabilities

Choose three hours from the following:

COM 387 Intercultural Communication  
MCG 201 Introduction to Multicultural, Class and Gender Studies  
SOC 250 Global Sociology  
SOC 344 The Black Experience  
SWK 225 Human Diversity  
One course offered through Study Abroad  
One language 105-level culture course

Choose nine hours from the following. Students should discuss other options with their advisor. Other appropriate choices (e.g. BIO, MGT, PHY, PSY, SOC) will depend on the student's background and goals.

BIO 120 Scientific Etymology  
COM 181 Introduction to Interpersonal Communication  
COM 357 Communication and Critical Thought  
COM 381 Interpersonal Communication  
COM 384 Communication Skills for Professionals  
ENG 228 Standard English Usage  
GTY 264 Psychology of Aging  
GTY 305 Services to Older Americans  
HEA 195 First Aid and Safety  
MAT 135 Introduction to Probability and Statistics  
PSY 300 Principles and Methods of Statistical Analysis

#### Required Limited Electives.....3 hrs

Choose from the following:

GTY 520 Leisure and Aging  
PSY 545 Behavior Modification  
PSY 581 Abnormal Psychology  
PSY 589 Personality  
SED 526 Introduction to Early Education of Children with Disabilities  
SED 552 Functional Behavior Analysis  
TSL 533 Language and Culture

#### Required Toward K-12 Certification<sup>1</sup> .....12 hrs

CDI 480 School Services for Communication Disorders  
COM 161 Introduction to Public Speaking  
CSC 199 Introduction to Information Technology<sup>2</sup>  
EDP 260 Psychology of Human Development<sup>2</sup>  
**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.....1-7 hrs

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

<sup>1</sup>These 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.

<sup>2</sup>May be taken as a University Studies elective.

### 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 corporation 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 com-

bination 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 Education Program (ATEP). To be considered for admission into the Athletic Training Program, students must achieve and maintain a cumulative GPA of 2.5 on a 4.0 scale, complete at least 30 observation hours and/or pass EXS 270, meet the Technical Standards (found at the referenced website below), and apply by the dates given (by the first Friday in November or the first Friday of the spring semester). The ATEP 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 ATEP 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 taken at another institution, space availability, and permission from the ATEP Director. EXS 271, 371, and 372 must be taken in residence at MSU. Transfer student candidates may transfer in EXS 301, 320, 390, 402, 403, 420, and 471 only after departmental approval. If the student's cumulative GPA drops below the required 2.5, the student will be subject to disciplinary action according to the Program's GPA Policy found on its website listed below.

A grade below a C for a major course must be retaken the next semester offered. Students must achieve a cumulative overall GPA of 2.5 or higher prior to enrolling in EXS 320, 390, 402, 403, 420, and 471. Students must maintain confidentiality at the clinical site(s), show respect for faculty, staff, and student-athletes at all times, and demonstrate adequate performance of the Essential Skills (found at the reference web site below) to be admitted and retained in the ATEP.

All students must meet the Technical Standards established to assure the health and safety of the candidate, other athletic training students, faculty and staff, and student-athletes or other physically active persons. All candidates are required to complete a physical exam upon acceptance into the ATEP, provide proof of proper immunizations, and either proof of Hepatitis B vaccination (HBV) or a signed waiver.

All full-time athletic trainers carry personal liability insurance to a level of no less than \$1,000,000/incident, \$3,000,000 aggregate. Athletic training students are covered under a blanket policy that is renewed annually at the student's expense. Athletic training students must be covered under this policy or approved alternative prior to beginning clinical rotations or field experiences. Other costs to the student include purchasing proper attire to be worn at the clinical sites, any costs associated with annual training and/or certifications, and other incidental costs (see Program website). The Athletic Training Program attempts to keep these costs at a minimum. Athletic training students are required to provide their own transportation to their Clinical Experience Sites.

Any student who, after reasonable accommodations, cannot perform the Essential Skills will not be permitted to continue in the ATEP. 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.

Please refer to the ATEP web site at: [www.murraystate.edu/academics/hshs/wts/athletictraining.htm](http://www.murraystate.edu/academics/hshs/wts/athletictraining.htm), contact the director at (270) 809-4517, or email the department for further information.

**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 Chapter 4, University Studies Requirements)

- 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  
 PSY 180 General Psychology
  - University Studies Electives:*  
 CSC 125 Internet and Web Page Design  
 or  
 CSC 199 Introduction to Information Technology

- Core Courses ..... 77 hrs**
- BIO 227 Human Anatomy
  - BIO 228 Human Anatomy Laboratory
  - BIO 229 Human Physiology
  - BIO 230 Human Physiology Laboratory
  - EXS 099 Transitions
  - EXS 250 Anatomical Concepts in Wellness
  - EXS 271 Clinical Experience: Introduction
  - EXS 295 Acute Care of the Physically Active
  - EXS 301 Care and Prevention of Athletic Injuries
  - EXS 310 Exercise Concepts in Special Populations
  - EXS 320 Evaluation of Non-orthopedic Conditions
  - EXS 333 Theory and Techniques in Strength and Conditioning
  - EXS 371 Clinical Experience: Application<sup>1</sup>
  - EXS 372 Clinical Experience: Integration<sup>1</sup>
  - EXS 375 Biomechanics in Sport and Exercise
  - EXS 380 Sports 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 450 Exercise Physiology
  - EXS 471 Administration in Exercise Science
  - EXS 475 Kinesiology
  - EXS 485 Sport and Exercise Psychology
  - NTN 230 Nutrition

**Total Curriculum Requirements ..... 121 hrs**  
<sup>1</sup>Students must complete a total of 12 hours from EXS 371 and 372, but no more than nine hours from each.

## College of Health Sciences and Human Services

### Exercise Science

The Area in Exercise Science has three emphases (pre-occupational therapy, pre-physical therapy, or wellness). 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. A cumulative grade point average of 2.5 is required prior to enrollment in most senior-level courses. The 2.5 GPA must be maintained to graduate.

Students who choose the wellness option will work with other health care professionals to provide clients with information designed to manage and prevent health issues associated with physical activity. Graduates may work 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. Students should enjoy working with people interested in developing healthier lifestyles through a combination of educational programs and exercise. Educational opportunities involve classroom and practical experiences focusing on life sciences and preventive health.

### Pre-Physical Therapy (PT) and Occupational Therapy (OT)

The Pre-Physical Therapy and Occupational Therapy options in the Area of Exercise Science provide pre-professional undergraduate courses that prepare students to pursue graduate programs in physical therapy and occupational therapy; however, it does not guarantee acceptance. Admittance to accredited PT and OT programs is stringent. Requirements necessary for acceptance to graduate programs are overall similar, but prerequisites may vary slightly depending on the university.

Considering these high standards necessary for graduate programs in PT or OT 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 that the remaining coursework can be tailored to prepare them for the workforce or other graduate programs at the time of graduation from MSU.

Pre-PT and Pre-OT students must meet the following criteria prior to taking EXS 390, 402, 403, and 420:

- minimum 3.00 cumulative grade point average;
- completed BIO 227, 228, 229 and 230 with a grade of C or better;
- completed at least one of the following with a grade of C or better:

- 1) OT - CHE 111 or PT - CHE 201
- 2) PHY 130 and 131

In addition, all Pre-PT and Pre-OT students must meet the cumulative 2.5 GPA required by all exercise science majors prior to enrollment in several other EXS classes to graduate.

Students choosing the pre-physical therapy or pre-occupational therapy emphasis will complete a bachelor's degree at Murray State University then apply to graduate programs. There is a strong demand for both physical therapists and occupational therapists nationwide.

Physical therapy is a health care profession that focuses on improving optimal health, movement, and function. Physical therapists apply scientific principles to prevent, diagnose, and provide interventions to minimize or alleviate dysfunction. Occupational therapy services include teaching daily living skills, developing perceptual-motor skills, improving sensory function, and adaptation of the environment for individuals with special needs. Occu-

pational therapists evaluate an individual's condition, administer treatments, and participate in consulting activities. The practice physical therapy or occupational therapy, one must graduate from an accredited program and pass a national board examination to obtain licensure. Both physical therapists and occupational therapists work in a variety of settings and with individuals throughout the lifespan.

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### AREA: Exercise Science/Pre-Occupational Therapy Option

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#### Bachelor of Science Degree CIP 31.0505

**University Studies Requirements .....45 hrs**  
(see Chapter 4, University Studies Requirements)

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

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

PHY 130 General Physics I

PHY 131 General Physics I Laboratory

SOC 133 Introduction to Sociology

**Core Courses .....41 hrs**

BIO 229 Human Physiology

BIO 230 Human Physiology Laboratory

EXS 099 Transitions

EXS 295 Acute Care of the Physically Active

EXS 301 Care and Prevention of Athletic Injuries

EXS 310 Exercise Concepts in Special Populations

EXS 333 Theory and Techniques in Strength and  
Conditioning

EXS 375 Biomechanics in Sport and Exercise

EXS 380 Sports Medicine Pharmacology

EXS 400 Research Design and Statistics for Allied Health

EXS 450 Exercise Physiology

EXS 471 Administration in Exercise Science

EXS 475 Kinesiology

EXS 485 Sport and Exercise Psychology

NTN 230 Nutrition

**Pre-Occupational Therapy Courses .....33 hrs**

BIO 120 Scientific Etymology

BIO 220 Clinical Terminology

BIO 227 Human Anatomy

BIO 228 Human Anatomy Laboratory

PSY 260 Lifespan Development

PSY 581 Abnormal Psychology

EXS 390 Therapeutic Modalities

EXS 402 Evaluation of the Lower Extremity

EXS 403 Evaluation of the Upper Extremity

EXS 420 Rehabilitation Techniques  
 EXS 470 Professional Experience  
 Upper-level Advisor Approved Career Elective (3 hrs)

Unrestricted Elective.....1 hrs

Total Curriculum Requirements ..... 120 hrs

**AREA:**  
**Exercise Science/Pre-Physical Therapy Option**

**Bachelor of Science Degree**  
**CIP 31.0505**

University Studies Requirements .....46-48 hrs  
 (see Chapter 4, University Studies Requirements)

University Studies selections must include:

•*Scientific Inquiry, Methodologies and Quantitative Skills:*

BIO 101 Biological Concepts

or

BIO 221 Zoology: Animal Form and Function

CHE 201 General College Chemistry

MAT 150 Algebra and Trigonometry or higher math<sup>1</sup>

•*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

PHY 130 General Physics I

PHY 131 General Physics I Laboratory

SOC 133 Introduction to Sociology

**Core Courses .....41 hrs**

BIO 229 Human Physiology

BIO 230 Human Physiology Laboratory

EXS 099 Transitions

EXS 295 Acute Care of the Physically Active

EXS 301 Care and Prevention of Injuries

EXS 310 Exercise Concepts in Special Populations

EXS 333 Theory and Techniques in Strength and  
 Conditioning

EXS 375 Biomechanics in Sport and Exercise

EXS 380 Sports Medicine Pharmacology

EXS 400 Research Design and Statistics for Allied Health

EXS 450 Exercise Physiology

EXS 471 Administration in Exercise Science

EXS 475 Kinesiology

EXS 485 Sport and Exercise Psychology

NTN 230 Nutrition

**Pre-Physical Therapy Courses.....36 hrs**

BIO 120 Scientific Etymology

BIO 220 Clinical Terminology

BIO 227 Human Anatomy

BIO 228 Human Anatomy Laboratory

CHE 202 General Chemistry and Qualitative Analysis

PSY 260 Lifespan Development

EXS 390 Therapeutic Modalities

EXS 402 Evaluation of the Lower Extremity

EXS 403 Evaluation of the Upper Extremity

EXS 420 Rehabilitation Techniques  
 EXS 470 Professional Experience  
 PHY 132 General Physics II  
 PHY 133 General Physics II Laboratory

Total Curriculum Requirements .....123-125 hrs

<sup>1</sup>MAT 140 and 145 may be substituted for MAT 150.

**AREA:**  
**Exercise Science/Wellness Option**

**Bachelor of Science Degree**  
**CIP 31.0505**

University Studies Requirements .....44 hrs  
 (see Chapter 4, University Studies Requirements)

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

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

(See advisor before choosing.)

**Core Courses .....41 hrs**

BIO 229 Human Physiology

BIO 230 Human Physiology Laboratory

EXS 099 Transitions

EXS 295 Acute Care of the Physically Active

EXS 301 Care and Prevention of Injuries

EXS 310 Exercise Concepts in Special Populations

EXS 333 Theory and Techniques in Strength and  
 Conditioning

EXS 375 Biomechanics in Sport and Exercise

EXS 380 Sports Medicine Pharmacology

EXS 400 Research Design and Statistics for Allied Health

EXS 450 Exercise Physiology

EXS 471 Administration in Exercise Science

EXS 475 Kinesiology

EXS 485 Sport and Exercise Psychology

NTN 230 Nutrition

**Wellness Courses..... 30-31**

BIO 227 Human Anatomy *and*

BIO 228 Human Anatomy Laboratory

or

EXS 250 Anatomical Concepts in Wellness

EXS 455 Exercise Prescription

EXS 460 Practicum

EXS 465 Advanced Exercise Physiology

EXS 470 Professional Experience

HEA 191 Personal Health

Career Electives (9 hours upper-level with advisor approval)

## College of Health Sciences and Human Services

Unrestricted Electives .....4-5 hrs  
(A minor may be substituted in place of electives.)

Total Curriculum Requirements ..... 120 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, consumer nutrition, or food management.

The Dietetics Option focuses on the application of the 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 Registered Dietitian credential is the nationally recognized credential in nutrition and 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 Option are explained below. Upon successful completion of the B.S. degree program in Dietetics, a student must complete a post-baccalaureate experience program (Dietetic Internship Program) to gain eligibility for the national examination for R.D. status. Murray State also offers the post-baccalaureate experience program.

The Food Management Option prepares students for careers in the hospitality industry. Skills developed can be applied to a wide range of jobs across the industry. Hospitality is a high-reward, high variety and \$4 trillion industry worldwide. 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 Consumer Nutrition Option provides a broad education in basic nutrition and food management 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 maybe 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.

### Admission Requirements

The Dietetics Program is accredited by the Commission on Accreditation of the American Dietetic Association as a Didactic Program in Dietetics. In order to be admitted to this program a student must 1) have completed ENG 105, COM 1 61, BIO 101, CHE 105 or 201, CIV 201, HUM 211, SOC 133, PSY 180, BIO 227 & 228 or EXS 250, BIO 229 & 230, NTN 230, NTN 231 and a university studies math course; 2) have a minimum GPA of 3.0; 3) complete an application for admission. Student will not be allowed to enroll in NTN 440, NTN 434, or NTN 535 until they have been admitted to the Dietetics Program. Completion of the program qualifies students to apply for an American Dietetic Association accredited dietetic internship program to pursuit of the Registered Dietitian (RD) credential. After being admitted into the Dietetics Program, student are encouraged to maintain a high GPA because admission to internships is nationally competitive.

### AREA:

### Nutrition, Dietetics and Food Management

Bachelor of Science Degree  
CIP 19.0501

### ACCREDITED BY:

**Dietetics Emphasis:** Commission on Accreditation for Dietetics Education of the American Dietetic Association

University Studies Requirements .....44-48 hrs  
(see Chapter 4, University Studies Requirements)

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

BPA 140 Foundations of Business

CHE 210 Brief Organic Chemistry

CIS 243 Business Statistics I

and

CIS 343 Business Statistics II

or

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 220 Food Safety and Sanitation

NTN 230 Nutrition

NTN 231 Principles of Food Science and Preparation

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

Area of Emphasis .....36-37 hrs  
(Choose an area of emphasis listed below.)

### Dietetics Emphasis

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

BIO 300 Introductory Microbiology

- CHE 330 Basic Biochemistry
- NTN 434 Clinical Dietetics Practicum
- NTN 440 Clinical Dietetics
- NTN 532 Advanced Nutrition
- NTN 535 Medical Nutrition Therapy and Disease
- SOC 303 Introduction to Research Methods
- or*
- SWK 303 Principles and Methods of Research
- REC 515 Leisure in Therapeutic Recreation Services
- or*
- Other approved counseling course*
- Electives (6 hrs)

**Food Management Emphasis**

- 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 9 hours from the following:*

- ACC 201 Principles of Managerial Accounting
- CSC 125 Internet and Web Page Design
- 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 (12 hrs)

**Consumer Nutrition Emphasis**

- 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
- HEA 191 Personal Health
- NTN 532 Advanced Nutrition
- SOC 303 Introduction to Research Methods
- or*
- SWK 303 Principles and Methods of Research
- REC 515 Leisure in Therapeutic Recreation Services
- or*
- Other approved counseling course*
- Electives (17 hrs)

**Total Curriculum Requirements .....125-131 hrs**

**Recreation and Leisure Services**

The Recreation and Leisure Services program offers a B.A./B.S. degree with a concentration in outdoor 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. With the exception of first semester freshman, 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 a major or minor.

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**MAJOR:  
Recreation and Leisure Services**

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**Bachelor of Science/Bachelor of Arts Degree  
CIP 31.0301**

**University Studies Requirements .....41-47 hrs**  
(see Chapter 4, University Studies Requirements)

**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.....36 hrs**

- REC 099 Transitions
- REC 101 Introduction to Recreation and Leisure Services
- HEA 191 Personal Health
- REC 295 Wilderness First Aid Basics
- REC 202 Recreation Program Planning
- REC 207 Inclusive Recreation
- REC 401 Research and Evaluation in Recreation
- REC 403 Managing Recreation Areas and Facilities
- REC 405 Organization and Administration of Recreation
- REC 421 Professional Experience
- REC 520 Leisure and Aging

**Outdoor Concentration .....23 hrs**

- REC 150 Seminar in Recreational Activities
- REC 302 Advanced Program Leadership
- REC 304 Community Leadership
- REC 411 Principles of Challenge Education
- REC 450 Recreational Use of Natural Resources
- REC 465 Interpretive Services in Park Management
- REC 499 Senior Seminar

Six hours from the following courses with a maximum of three hours coming from one-hour REC courses: REC 102, 129, 162, 163, 164, 311, 350, and 490.

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

**Total Curriculum Requirements .....121-127 hrs**

**Recreation and Leisure Services Minor.....23 hrs**

REC 101, 202, 207, 405, 450 and eight hours from the following: REC 150, 302, 304, 311, 350, 401, 403, 411, 465, 476, 490, 499, 515, and 520. Six hours must be upper-level courses completed in residence at Murray State University.

**Youth and Nonprofit Leadership**

A minor in youth and nonprofit leadership prepares students for leadership roles in organizations like the American Red Cross, the Boys and Girls Clubs of America, the YMCA, hospitals, colleges and ministries to mention several. It is designed to include competencies in program development, supervision, public relations, and finance to mention a few. Many classes involve a service learning project and can help students earn the designation of Service Learning Scholar at graduation.

**Youth and Nonprofit Leadership Minor .....25 hrs**

YNL290, 350, 351, 400, 450, 502 and six hours of limited electives. Six hours must be upper-level courses completed in residence at Murray State University.