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Graduate College  
2012-13 Graduate Catalog

First Edition  
published July 2012

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# College of Health and Human Services

Dean: Helen C. Reid

Associate Dean: To be named

Office: Professional Building, Room 110

Phone: (417) 836-4176, Fax: (417) 836-6905

## Academic Units

- [Master of Public Health](#)
- [Department of Biomedical Sciences](#)
- [Department of Communication Sciences and Disorders](#)
- [Department of Kinesiology \(formerly Health, Physical Education, and Recreation\)](#)
- [Department of Nursing](#)
- [Department of Physical Therapy](#)
- [Department of Physician Assistant Studies](#)
- [Department of Psychology](#)
- [School of Social Work](#)
- [Sports Medicine and Athletic Training](#)

## Master of Public Health (MPH)

Vicki Sanchez, Program Director

*Master of Public*

## Department of Biomedical Sciences

Colette M. Witkowski, Department Head

Scott Zimmerman, Graduate Director (Cell and Molecular Biology)

Benjamin Timson, Graduate Director (Nurse Anesthesia)

Carmen Boyd (Certificate)

*Master of Science, Cell and Molecular Biology (includes accelerated master's opportunity)*

*Master of Science, Nurse Anesthesia*

*Graduate Certificate in Dietetics Internship*

## **Department of Communication Sciences and Disorders**

Neil DiSarno, Department Head

Neil DiSarno, Graduate Director

*Doctor of Audiology (AuD)*

*Master of Science, Communication Sciences and Disorders*

## **Department of Kinesiology**

Sarah G. McCallister, Department Head & Graduate Coordinator (MS)

Gerald Masterson, Graduate Coordinator (Certificate)

David T. Oatman, Graduate Coordinator (MSEd)

*Master of Science, Health Promotion and Wellness Management (includes accelerated master's opportunity)*

*Master of Science, Administrative Studies – Sports Management Option*

*Master of Science in Education, Secondary Education*

*Graduate Certificate in Sports Management*

## **Department of Nursing**

Kathryn L. Hope, Department Head

Susan Sims-Giddens, Program Director, MSN Nurse Educator Program

Susan Berg, Program Director, MSN Family Nurse Practitioner Program

*Doctorate of Nursing Practice (DNP)*

*Master of Science in Nursing (includes accelerated master's opportunity)*

*Graduate Certificate: Post-Master's Nurse Educator*

*Graduate Certificate: Post-Master's Family Nurse Practitioner*

## **Department of Physical Therapy**

Akinniran Oladehin, Department Head

Scott W. Wallentine, Admissions Coordinator

*Doctor of Physical Therapy*

## **Department of Physician Assistant Studies**

Steven T. Dodge, Department Head and Director

*Master of Science, Physician Assistant Studies*

## **Department of Psychology**

Timothy K. Daugherty, Department Head

David Lutz, Graduate Program Director (Clinical Track)

Wayne Mitchell, Graduate Program Director (Experimental Track)

Carol Shoptaugh, Graduate Program Director (I/O Track)

*Master of Science, Psychology*

*Master of Science in Education, Secondary Education*

*Forensic Child Psychology Graduate Certificate*

## **School of Social Work**

Carol Langer, Director

Darryl Haslam, MSW Coordinator, Springfield

To be named, MSW Coordinator, Joplin Program

*Master of Social Work*

## **Sports Medicine and Athletic Training**

Tona Hetzler, Department Head and Program Director

*Master of Science, Athletic Training*



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# Master of Public Health

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Email: [Publichealth@missouristate.edu](mailto:Publichealth@missouristate.edu)

Website: <http://www.missouristate.edu/mph/>

Director: Vickie Sanchez

## Faculty

Professor: Dalen M. Duitsman

Associate Professor: Vickie L. Sanchez

Assistant Professor: David Claborn, Elizabeth Federman

## Programs

### Master of Public Health

Vickie Sanchez, Program Director

Physical Therapy Building, Suite 112

Phone: (417) 836-8850

[VSanchez@missouristate.edu](mailto:VSanchez@missouristate.edu); <http://www.missouristate.edu/mph/>

### Program Description

The Master of Public Health (MPH) program offers a generalist MPH degree consisting of 42 credit hours. The program's mission is to prevent disease, promote health, and protect the well-being of the public through education, research and service.

Students gain knowledge in each of the five core disciplines of public health: biostatistics, epidemiology, environmental health sciences, public health administration, and the social behavioral sciences. The program prepares students to assess community health needs, plan effective health education and health intervention programs, implement and evaluate educational experiences, and conduct public health research.

Graduates of this program will enter public health service as practitioners, administrators, researchers, educators, and consultants in a wide variety of public health settings. Most will be employed in local, state, and national public health agencies, while others will work for non-profit organizations, private agencies, medical facilities, governmental agencies, and educational institutions.

An accelerated option is available for eligible Missouri State University undergraduate majors. Students may apply for preliminary acceptance into the Master of Public Health (MPH) program after admission requirements for the accelerated master's option have been satisfied. If accepted, a maximum of 12 credit hours chosen from approved 600- or 700-level courses may be counted toward both the undergraduate and graduate degrees. This option gives exceptional undergraduate students from a variety of majors the opportunity to complete the course requirements for the MPH degree in as little as three semesters and a summer after attaining the Bachelor's degree rather than the typical four to five semesters and a summer.

Contact the Director of the MPH Program for further information and guidelines. Before enrolling in a course to be counted as both undergraduate and graduate credit, an undergraduate student must be accepted into the accelerated program and receive prior approval from the graduate program director, department head of the undergraduate program, and the Dean of the Graduate College.

## Entrance Requirements

The Master of Public Health (MPH) program has a competitive admissions process and seeks to admit students who 1) demonstrate the potential to be successful in graduate school, and 2) are committed to the public health profession, as evidenced by their interests, backgrounds and experiences.

Consideration for admission to the Master of Public Health Program requires the following:

1. Completion of a baccalaureate degree from a regionally accredited college or university with a minimum GPA of 3.00\*;
2. A minimum combined score of 1,000\* in the verbal and quantitative sections of the Graduate Record Exam (GRE);
3. Submission of the Graduate College application and related fee;
4. A 300-400 word personal statement of professional goals;
5. Three letters of recommendation from employers and/or professors (current or recent) that speak to the abilities of the student to succeed in graduate education;
6. Voluntary or salaried post-baccalaureate work experience (equivalent to 1 year full-time) in one or more health or social service settings is highly desirable but not required; and
7. International applicants for whom English is not the native language are required to submit minimum scores of 550 on the paper-based, or a comparable score of 213 on the computer-based test, on the Test of English as a Foreign Language (TOEFL).

\*For those applicants who do not meet the minimum GPA and/or GRE requirements, an admission index score will be calculated using the following weighting formula:  $GPA \times 200 + (\text{verbal GRE} + \text{quantitative GRE})/2 + (10 \times \text{Yrs FT exp})$ . A maximum of 2 yrs experience will be used for this formula. Applicants with an index score >1100 will be considered for admission.

## Application Deadlines

All application materials must be received by the following deadlines: Fall admission - April 1; Spring admission - October 1. Applicants are encouraged to begin the process at least 4 weeks (6 weeks for international applicants) prior to the deadline to ensure all supporting materials are received on time.

## Admission Procedures

The personal statement of professional goals, and letters of recommendation to be sent directly to the MPH Program office. Note: Letters of recommendation are to be sent directly from the recommender(s) or, if sent with the letter of application, must be individually sealed with signature across envelope flap.

All other application materials are to be sent directly to the Graduate College (for domestic applicants) or International Student Services (for international applicants).

## Degree Requirements

The MPH program requires completion of 42 credit hours and includes the following:

### Public Health Core Courses (15 hrs)

Course Code	Course Title	Credit Hours
<a href="#"><u>PBH 720</u></a>	Epidemiology	3 hrs
<a href="#"><u>PBH 730</u></a>	Biostatistics for Health Sciences	3 hrs
<a href="#"><u>PBH 740</u></a>	Health Behavior	3 hrs
<a href="#"><u>PBH 745</u></a>	Environmental Health	3 hrs
<a href="#"><u>PBH 775</u></a>	Principles and Skills of Public Health Administration	3 hrs

### Other Required Courses (15 hrs)

Course Code	Course Title	Credit Hours
<a href="#"><u>PBH 735</u></a>	Software Applications and Data Sources in Public Health	3 hrs
<a href="#"><u>PBH 756</u></a>	Introduction to Public Health	3 hrs
<a href="#"><u>PBH 760</u></a>	Research Methods in Public Health	3 hrs
<a href="#"><u>PBH 783</u></a>	International Health and Infectious Disease	3 hrs
<a href="#"><u>MGT 701</u></a>	Health Services Organization	3 hrs

### Elective Courses (6 hrs\*)

\*Select two courses with consent of program advisor

Course Code	Course Title	Credit Hours
<a href="#"><u>HLH 750</u></a>	Programming Approaches in Wellness/Health Promotion	3 hrs
<a href="#"><u>HLH 752</u></a>	Health Risk Identification and Management	3 hrs
<a href="#"><u>MTH 647</u></a>	Applied Regression Analysis	3 hrs
<a href="#"><u>PBH 781</u></a>	Public Health Preparedness	3 hrs
<a href="#"><u>PBH 778</u></a>	Chronic Disease Epidemiology	3 hrs
<a href="#"><u>PBH 785</u></a>	Seminar in Public Health (may be repeated for credit)	3 hrs
<a href="#"><u>PBH 790</u></a>	Independent Study in Public Health	3 hrs
<a href="#"><u>PLS 754</u></a>	Seminar in Health Policy	3 hrs

### Field and Capstone Experience (6 hrs)

Course Code	Course Title	Credit Hours
<a href="#"><u>PBH 798</u></a>	Public Health Field Experience	6 hrs
<a href="#"><u>PBH 799</u></a>	Capstone Project in Public Health	3 hrs
and	and	and
<a href="#"><u>PBH 798</u></a>	Public Health Field Experience	3 hrs

### Core Course Examination

After satisfactory completion of all required core courses, and not later than the second to last semester, all students are required to pass a written examination that assesses knowledge and skills in the program core competencies. The items on this exam will cover content from the core areas of study in biostatistics, epidemiology, health behavior, environmental health, and health services administration. Student who fail are limited to one additional attempt to take the exam.

## Field Experience

All students are required to complete a practical experience in an approved public health setting under the mentorship of a faculty member and the supervision of an on-site public health professional. A minimum of 200 contact hours per three (3) credit hours must be completed, and a written portfolio must be submitted in the required format at the completion of the field experience.

In order to qualify for the Public Health Field Experience, students must have successfully completed 33 credit hours, including all public health core and other required courses and passed the core course examination. The Field Experience must be approved by the field experience faculty supervisor and the Program Director to ensure site acceptability. The only curricular practical training that will be approved is the PBH 798 course. No external research at other institutions will be approved for curricular practical training during the completion of the MPH program.

## Culminating Experience

As the culminating experience, students in the MPH program are required to complete a capstone project via:

1. [PBH 799](#) - Capstone Project in Public Health - for students who opt for the 3-credit hour field experience;

or

2. A field experience project for students who opt for the 6-credit hour field experience.

The capstone project requires students to synthesize and integrate advanced knowledge and skills acquired in the program and to apply those to some aspect of public health.

Some aspect of the culminating experience must be original, whether it is the topic itself, an analysis of newly collected or extant data, the reinterpretation of others' findings, or the design and completion of a community project. At its completion, students submit a written report and make a formal presentation to an audience of faculty, students, and practitioners.

## Retention and Readmission to the Program

Admission to the MPH program is through a competitive admissions process with only a limited number of students admitted each year. Students who leave the program will be required to apply for readmission. Applications for readmission will be reviewed by the MPH admission, progression and graduate (APG) committee. Previous enrollment does not guarantee readmission. The student's readmission will depend on where the student places in the competitive enrollment process.

All students must enroll in at least one credit hour each fall and spring semesters until graduation to remain in the MPH program. International students must comply with program and International Student Services policies. Students who do not meet minimum requirements will be dropped from the program and will have to reapply to the MPH APG committee for permission to return to the program. Students have a maximum of five years to complete the program. Students who exceed this time period must seek an extension through the APG. All other retention policies are defined by the Graduate College.

## Public Health Courses

### PBH 720 Epidemiology

An introduction to the epidemiological methods and procedures utilized in the study of the origin, distribution, and control of disease. It will include the study of infectious and non-infectious disease etiology, including vector control, host defenses and resistance, and investigation of disease outbreaks. Students will learn to use basic epidemiological concepts and methods for program planning, evaluation, and research. Basic statistical measures used in the analysis of clinical and epidemiologic evaluations, including measures of disease frequency and measures of absolute and relative effects, will be covered. Identical with NUR 700. Cannot receive credit for PBH 720 and NUR 700. 3(3-0) F,S



## PBH 730 Biostatistics in Health Sciences

This course is an introduction to biostatistical methods in the context of public health and medical sciences. Major topics will include: research design and measurement, sampling, exploratory data analysis, probability and sampling distributions, hypothesis testing, contingency table analysis, nonparametric methods, correlation, linear regression, logistic regression and survival analysis. Emphasis will be on developing an understanding of these methods and drawing appropriate conclusions from analysis findings. Students will also be introduced to statistical programming packages. 3(3-0) F,S

## PBH 735 Software Applications and Data Sources in Public Health

Prerequisite: permission of instructor. This course will provide an overview of important software and databases that are commonly used in public health surveillance, program planning and research. Students will learn to access, analyze, and interpret morbidity and mortality data from a variety of national and statewide data sources (e.g., NHANS, BRFSS, MICA, CDC Wonder, vital statistics). Data will be analyzed descriptively using statistical software including Excel, CDC's EpiInfo, SPSS and/or SAS. 3(3-0) F

## PBH 740 Health Behavior

This course examines selected theories of health behavior relevant to individual and community health promotion program planning. Students will analyze biological, psychological, sociological, and environmental influences on health behavior and evaluate strategies for health promotion. 3(3-0) F

## PBH 745 Environmental Health

This course will investigate and examine the relationships of environmental health problems to human health. Students will survey the major environmental issues facing developed and developing countries. Topics include water supply, air and noise pollution, sewage treatment and waste disposal, pest and pesticides, toxic waste, energy alternatives, food and drug quality assurance, population control, and environmental disease control. 3(3-0) F,S

## PBH 756 Introduction to Public Health

This course will provide a general introduction to public health. It will discuss the history of public health; international, federal, state, and local agencies; voluntary health agencies; professional health organizations; the legislative process as it relates to public health, environmental health, health promotion, basic public health statistics and an introduction to epidemiology. 3(3-0) F,S

## PBH 758 Contemporary Issues in Public Health

In-depth consideration of pertinent issues, trends, controversy, and current research in public health. 3(3-0) F

## PBH 760 Research Methods in Public Health

This course is designed to help students gain the necessary knowledge and skills for undertaking research on issues related to public health. 3(3-0) S

## PBH 772 Toxicology and Hazardous Materials

A study of toxic substances and their effects in the environment and in living organisms. This course also includes a study of safety methods for identifying, monitoring, handling, processing, containing, storing, and disposing hazardous and toxic substances in the environment and workplace. Students are encouraged to have had courses in physiology, biochemistry and/or pharmacology. 3(3-0) F

## PBH 775 Principles and Skills of Public Health Administration

This course is designed to provide a comprehensive overview of the administrative, managerial and organizational practices of health professionals in a variety of settings. Opportunities for the development and application of administrative competencies in health



education/health care settings will be provided. 3(3-0) S

### PBH 778 Chronic Disease Epidemiology

This course examines problems and methods used in studying chronic diseases. Focus will be on the collection and interpretation of chronic disease data, and application of epidemiological and statistical principles pertaining to cancer, cardiovascular diseases, cerebrovascular diseases, chronic lung diseases, diabetes, musculoskeletal diseases, neurologic disorders and other chronic diseases. 3(3-0) S

### PBH 781 Public Health Preparedness

This course will investigate the health risks and hazards associated with emergency situations, and the roles of public health professionals and volunteers in the preparation for and response to emergencies and disasters. 3(3-0) F

### PBH 783 International Health and Infectious Disease

This course will investigate the epidemiology, impact, and control of infectious diseases in the context of the international environment. Topics will include the structure and financing of health systems in the developing world, the medical community's ability to respond to infectious disease risks, and the specific impacts of major infectious diseases with an emphasis on tuberculosis, AIDS, and malaria. This course is not a clinical course and will not address the diagnosis or treatment of disease. 3(3-0) S

### PBH 785 Seminar in Public Health

Prerequisite: permission of Graduate Coordinator. Variable topics course. The study, analysis, and discussion of timely issues in public health. May be repeated for credit if topic is different. 1-3 D

### PBH 788 Public Health Practicum

The Public Health Practicum is required of all students enrolled in the Professional Option of the MPH program. It will involve developing, implementing and establishing a public health intervention that includes, reflects, and integrates public health principles, theory, and practice as identified in the Masters in Public Health curriculum. All required courses must be completed in order to be eligible. Project selection must be approved by the course instructor. 1 D

### PBH 790 Independent Study in Public Health

Prerequisite: permission of instructor and department head. The Independent Study in Public Health is a carefully planned experience which allows the advanced student to investigate a clearly defined problem that will enhance their academic preparation. May be repeated for credit. 1-3 D

### PBH 798 Public Health Field Experience

Prerequisite: students must have successfully completed 33 hours including all public health core and other required courses and passed the core course exam. The required field experience provides experience in program development, community relations, public education, and research. Possible sites include: official health agencies, voluntary health agencies, or community social agencies. Selection is dependent on the students' backgrounds and career expectations. Students may choose to spend their entire time in one agency, or, for shorter periods, in 2 or more agencies. The field experience can be done during the fall, spring, or summer and can be no less than 200 hours. All field experiences must be approved by the field experience faculty supervisor and the Program Director to ensure the site acceptability. May be repeated. 1-6 D

### PBH 799 Capstone Project in Public Health

Prerequisite: admission to the Master of Public Health program. The Capstone Project provides students the opportunity to integrate knowledge gained in the classroom with real-world problems through completion of a major research, program planning, policy

development, management, service delivery, or evaluation project. Some aspect of the project must be original, whether it is the topic itself, an analysis of newly collected or extant data, the reinterpretation of others' finding, or the design and completion of a community project. While student led, the project is designed in consultation with, and carried out under the guidance of, a faculty supervisor. Student must have the capstone project proposal form approved by the faculty supervisor and Program Director prior to enrollment. 3 (3-0) D



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## Department of Biomedical Sciences

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Email: [BiomedicalSciences@missouristate.edu](mailto:BiomedicalSciences@missouristate.edu)

Website: <http://www.missouristate.edu/bms/>

Department Head: Colette M. Witkowski

### Faculty

Professor: Michael M. Craig, Richard C. Garrad, Benjamin F. Timson, Colette M. Witkowski

Associate Professor: Robert K. DeLong, Scott D. Zimmerman

Assistant Professor: Anne Marie B. Hunter, Joshua Smith

Program Director, Nurse Anesthesia: Monika Feeney, CRNA

Assistant Program Director, Nurse Anesthesia: Kathleen D. Fisher, CRNA

Clinical Coordinator, Nurse Anesthesia: Monika Feeney, CRNA

Senior Instructor: Carmen Boyd, Hillary L. Roberts

Clinical Adjunct Faculty: Dennis Bray, Charlette Hutsell, Beverly J. Long, Donna Witsberger

Emeritus Professor: Harold B. Falls, Jr., Christopher C. Field, Albert R. Gordon, Joanne M. Gordon, Harley E. Mortensen

### Programs

#### Master of Science in Cell and Molecular Biology

Scott D. Zimmerman, Director of Graduate Studies

Professional Building, Room 352

Phone (417) 836-5478; [ScottZimmerman@missouristate.edu](mailto:ScottZimmerman@missouristate.edu)

#### Program Description

The graduate program in Cell and Molecular Biology is designed for students preparing for entry into doctorate or health professional programs, or for expanding career opportunities in the biotechnology, biopharmaceutical, health science research, bioinformatics, and

genomics sectors. The program offers students with biological or biochemical preparation to increase knowledge in the molecular biosciences and provides initial or additional experiences using the biotechnologies emerging from the rapidly-growing disciplines in cell and molecular biology. The development of laboratory research skills occurs in a laboratory-focused curriculum that has a health and human emphasis.

## Program Objectives

1. To educate students at the graduate level in modern concepts and methodologies of cell and molecular biology.
2. To build upon the student's foundation of knowledge in cell and molecular biology through enhanced exposure to course, laboratory, and research opportunities.
3. To enhance the student's ability to carry out independent research in cell and molecular biology.

## Accelerated Master's Degree Option

Majors in cell and molecular biology may be accepted into the Master of Science in Cell and Molecular Biology program after admission requirements for the accelerated master's option are met. Once accepted for early admission, up to 12 credit hours of approved 600 and 700-level coursework may be counted toward both the Bachelor of Science and the Master of Science degree programs. Other required 600-level courses in the master's program that are taken by the undergraduate student, but not included in the accelerated option, may be waived on the master's degree program by the student's graduate advisor if the required courses were taken less than four years previously and the student earned at least a grade of B or better in those courses. Additional graduate coursework to replace waived courses may be needed to meet the 32 hours degree requirement. Accelerated option students must enroll in BMS 730 each semester.

The accelerated option allows cell and molecular biology majors who are interested in biomedical research to complete the requirements for the Master of Science degree in two semesters and a summer rather than the typical four semesters and a summer. Contact the program director in the Department of Biomedical Sciences for information and guidelines.

Before enrolling in each course to be counted as both undergraduate and graduate credit, an undergraduate student must be accepted into the accelerated program and complete a mixed credit form. Acceptance into the program and all approvals must be completed prior to the end of the Change of Schedule Period for the course(s). See the Graduate College for further information.

### Admission Requirements for the Accelerated Master's Option

1. Junior standing and an overall GPA of 3.40 or better
2. Completion of BMS 110, 231, 321; CHM 160, 170, 175, 310 with a GPA of 3.40 or better
3. Undergraduate laboratory research experience is strongly recommended before applying
4. Applicants must submit:
  - a. an official transcript including all undergraduate work
  - b. three letters of recommendation, one written by the future graduate advisor formally accepting the student into their research laboratory.
  - c. GRE scores
  - d. a statement of research interest
5. Acceptance of the applicant by the graduate faculty in cell and molecular biology under the accelerated master's option

## Entrance Requirements

Admission to the program requires a strong science and mathematics background identical to that required of a student completing the undergraduate program in cell and molecular biology. In addition, admission to the program requires evidence that the applicant will be able to successfully complete a rigorous graduate program in the sciences at a high level of performance. Entrance into the program requires completion of the following.

1. Two semesters of organic chemistry
2. Two semesters of physics
3. A course in calculus
4. A bachelor's degree from a Missouri State University recognized accredited college or university and a grade point average (GPA) of at least 3.00 on a 4.00 scale, overall, or for the last 60 hours
5. Applicants must have:
  - a. an official transcript including all undergraduate work
  - b. three letters of recommendation
  - c. GRE scores
  - d. a statement of research interest

Applicants will be evaluated for admission based upon their submitted materials. By the end of the first semester, candidates must be accepted into a reserach laboratory by a member of the Graduate Faculty who becomes the student's advisor

## Degree Requirements

The program requires completion of a minimum of 32 semester hours and includes the following.

1. Core Courses. This requirement is met by completing:
 

<a href="#"><u>BMS 622</u></a>	Molecular Cell Biology	4 hrs
<a href="#"><u>BMS 625</u></a>	Molecular Biology	4 hrs
<a href="#"><u>BMS 658</u></a>	Recombinant DNA Technology	3 hrs
2. Orientation. The candidate must enroll in [BMS 701](#), Research in the Biomedical Sciences (3 hrs).
3. Signal Transduction. The candidate must enroll in [BMS 635](#), Signal Transduction (2 hrs).
4. Statistics. The candidate must enroll in an approved introductory statistics course at the graduate level if a course in statistics is not a part of their previous academic record.
5. Electives. Other remedial or elective courses will be selected by the advisor in consultation with the student. Up to nine hours of appropriate course work, excluding research and thesis, may be selected from outside the Department of Biomedical Sciences.
6. Research. All candidates (thesis and non-thesis options) must satisfactorily complete a research requirement of at least 3 hours by enrolling in [BMS 798](#). Thesis option candidates may apply an additional 3 hours of BMS 798 and a maximum of 6 hours of [BMS 799](#) toward the 700-level requirement for the degree. Non-thesis option candidates may not apply more than 4 hours of BMS 798 and may not apply BMS 799 toward the degree.
7. 700-level courses. At least 16 hours of course work must be 700 level or above. A maximum of 6 hours in BMS 798, Research and 6 hours in BMS 799, Thesis may be counted toward the degree. In addition, candidates will be required to enroll every semester in the journal topics course, [BMS 730](#), Current Literature Topics, for a maximum of 4 semesters.
8. Comprehensive Examination. The candidate must pass a written exam taken in the third semester of graduate study and an oral examination administered by the departmental cell and molecular biology graduate faculty.
9. Students must earn at least a C grade in all courses. Any grade of less than C will result in the dismissal of the student from the

program.

## Master of Science in Nurse Anesthesia

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Benjamin Timson, Academic Advisor of the Nurse Anesthesia Program

Professional Building Room 407;

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Monika Feeney, CRNA, Program Director of the Nurse Anesthesia Program

St. John's School of Nurse Anesthesia at Missouri State University;

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Kathleen D. Fisher, CRNA, Assistant Program Director of the Nurse Anesthesia Program

St. John's School of Nurse Anesthesia at Missouri State University;

Phone (417) 820-6890 or [KDFisher@missouristate.edu](mailto:KDFisher@missouristate.edu)

### Program Description

St. John's School of Nurse Anesthesia at Missouri State University provides the scientific foundation and clinical training that prepares practitioners as certified registered nurse anesthetists (CRNA).

### Program Accreditation

St. John's School of Nurse Anesthesia at Missouri State University is fully accredited by the Council on Accreditation of Nurse Anesthesia Educational Programs, the official accrediting agency for nurse anesthetists. They may be contacted at 222 South Prospect Avenue, Park Ridge IL 60068; Ph: 847-692-7050.

### Entrance Requirements

All applicants must meet the following requirements:

1. A bachelor's degree in an area of life sciences, nursing, or chemistry from an accredited institution in the U.S. or equivalent training in a foreign university
2. Undergraduate work must include inorganic chemistry (4 hrs), organic chemistry (4 hrs), microbiology, human anatomy, human physiology; and genetics (strongly recommended)
3. A minimum GPA of 3.00 on a 4.00 scale for the last 60 hours of undergraduate course work. Emphasis will be placed on science courses
4. Submission of official Graduate Record Examination (GRE) scores taken no earlier than five years prior to application with a preferred minimum score of 153 in Verbal Reasoning, 150 in Quantitative Reasoning, and 3.5 in Analytical Writing
5. Current licensure as a registered nurse in the U.S.
6. A minimum of one year experience in an acute care setting is required; preferences may be given to applicants with more experience. Contact the clinical program director regarding questions about appropriate nursing experience
7. BLS, ACLS, PALS certification are required
8. A personal interview with a screening committee
9. The application deadline for the fall and spring semesters are November 1 and July 1, respectively. Interviews are scheduled within three months after the application deadline
10. Students admitted into the program will be required to undergo a criminal background check before matriculation
11. Upon acceptance to the program, the student will pay \$100.00 to the AANA for an associate membership (American Associate of Nurse Anesthetists)

## Degree Requirements

- Students accepted into the program but who have not previously completed clinical training through an accredited clinical program in nurse anesthesia are required to complete 66 credit hours, which must be in residence. Students who have completed clinical training in nurse anesthesia and who have passed the national certification examination for nurse anesthesia (CRNAs) but who have not completed an appropriate master's degree must complete at least 33 credit hours in residence.

### 2. Core Course Requirements

Total 24-25 hrs

Course Code	Course Title	Credit Hours
<a href="#"><u>BMS 700</u></a>	Introduction to Graduate Studies in the Biomedical Sciences	3 hrs
<a href="#"><u>BMS 620</u></a>	Medical Cell Biology OR	3 hrs
<a href="#"><u>BMS 622</u></a>	Molecular Cell Biology	4 hrs
<a href="#"><u>BMS 665</u></a>	Human Cardiopulmonary Physiology	3 hrs
<a href="#"><u>BMS 669</u></a>	Neurobiology	3 hrs
<a href="#"><u>BMS 661</u></a>	Medical and Pathologic Physiology	4 hrs
<a href="#"><u>BMS 727</u></a>	Human Gross Anatomy	2 hrs
<a href="#"><u>PAS 781</u></a>	Advanced Pharmacotherapeutics	3 hrs
<a href="#"><u>BIO 650</u></a>	Statistical Methods for Biologists OR	3 hrs
<a href="#"><u>MTH 645</u></a>	Applied Statistics OR	3 hrs
<a href="#"><u>PSY 711</u></a>	Introductory Statistics for Education and Psychology	3 hrs

### 1. Clinical Core

Total 38 hrs

A clinical component is required. This requirement may be met either by having passed the national certification examination for nurse anesthesia or by enrolling in the following courses.

Course Code	Course Title	Credit Hours
<a href="#"><u>ANE 702</u></a>	Clinical Conference I	1 hr
<a href="#"><u>ANE 705</u></a>	Clinical Conference II	1 hr
<a href="#"><u>ANE 708</u></a>	Clinical Conference III	1 hr
<a href="#"><u>ANE 711</u></a>	Clinical Conference IV	1 hr
<a href="#"><u>ANE 714</u></a>	Orientation to Clinical Anesthesia	1 hr
<a href="#"><u>ANE 720</u></a>	Basic Principles of Anesthesia	3 hrs
<a href="#"><u>ANE 726</u></a>	Introduction to Clinical Anesthesia	2 hrs
<a href="#"><u>ANE 732</u></a>	Advanced Anesthesia Principle I	6 hrs
<a href="#"><u>ANE 735</u></a>	Clinical Practicum	16 hrs
<a href="#"><u>ANE 744</u></a>	Pharmacology in Anesthesia	2 hrs
<a href="#"><u>ANE 750</u></a>	Advanced Anesthesia Principles II	4 hrs

- Research Requirement (total 4 hours). Each candidate will be assigned to a clinical research project. The candidate must complete one seminar by enrolling in [BMS 797](#), Non-Thesis Project (2 hrs) and a research involvement by enrolling in [BMS](#)



798, Research (2 hrs). A formal presentation of the project is required.

2. Students who are already a CRNA: A certified registered nurse anesthetist (CRNA) may enter the program and must complete the core course requirements, the research requirements, and electives chosen in consultation with the student's committee to total at least 33 hours. CRNA students must provide a clinical transcript from their former anesthesia program. Students must complete all cases/procedures that allow them to fulfill the minimum clinical requirements currently set forth by the Council on Accreditation. At least 6 hours of clinical practicum, ANE 735, are required.
3. Additional requirements or limitations.
  - a. The candidate must maintain a minimum GPA of at least 3.00 each semester for the degree
  - b. All requirements must be satisfied within eight years
  - c. Matriculated students must enroll on a full-time basis and progress through the program with their class
  - d. All course work must be approved by the Program Director or the Head of the Department of Biomedical Sciences
  - e. The candidate must pass oral and written comprehensive examinations
  - f. No more than 4 hours of C grade is allowed during the program
  - g. No grade below a C grade will be allowed at any time during the program
  - h. Candidates who do not achieve the academic standards set forth by the program will be immediately dismissed
  - i. During the clinical phase, the student will carry liability insurance purchased through the AANA
  - j. A \$2200.00 program fee will be applied per each semester: Fall, Spring and Summer

## Dietetic Internship Certificate

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### Program Accreditation

The Missouri State University Dietetic Internship Certificate Program has been granted Candidacy for Accreditation by the Accreditation Council for Education in Nutrition and Dietetics (ACEND). ACEND is the Academy of Nutrition and Dietetics' accrediting agency for education programs preparing students for careers as registered dietitians or dietetic technicians. ACEND exists to serve the public by establishing and enforcing eligibility requirements and accreditation standards that ensure the quality and continued improvement of nutrition and dietetics education programs. Program meeting those standards are accredited by ACEND.

### Program Goals

The Dietetic Internship will:

1. prepare graduates to be competent for practice as an entry-level dietitians.
2. prepare graduates with life-long learning skills which will enhance the dietetic profession and demonstrate leadership in the field of dietetics.
3. emphasize and model a commitment to community engagement and prepare graduates who are socially accountable.

### Admission Requirements

1. Evidence of meeting the minimum academic requirements from an ACEND-approved Didactic Program in Dietetics by a "Verification Statement" or "Declaration of Intent to Complete Degree" and/or ACEND-approved "Minimum Academic Requirements" within five years of application.
2. Completion of the baccalaureate degree from an accredited college or university.
3. Cumulative GPA of 3.00 over the last 60 hours of academic work taken.

4. Graduate Record Examination (GRE) required taken no earlier than five years prior to application with a preferred minimum score of 150 in Verbal, 141 in Quantitative, and 4 in the Writing Sections.
5. Completed application form.
6. A personal philosophy statement not longer than 1,000 words that addresses the applicant's professional career goals and how the DI program will help accomplish these goals.
7. Students for whom English is a second language must earn a minimum score of 600 (paper-based), 250 (computer-based), or 100 (internet-based) within two years prior to application on the Test of English as a Foreign Language (TOEFL). The TOEFL website is <http://www.toefl.org>.
8. Three written recommendations received with the application must be without significant reservations/concern.
  1. Dietetic academic reference
  2. Work or volunteer reference
  3. Final reference is the applicant's choice
9. Resume which includes:
  1. Work experience in dietetics, including number of hours of paid and volunteered work
  2. Involvement in college and/or community activities
10. After the application period closes, the selection committee will review all of the applications and select students for an interview. Personal interview are preferred, but if this is not possible, a phone interview can be arranged. Interviews will be conducted at the Professional Building on the Missouri State University campus in Springfield, Missouri.
11. Following admission to the Missouri State DI, interns will complete the Graduate College Application for Admission and be enrolled in the graduate college.
12. After formal admission to the University and the program, interns will submit a completed Graduate Certificate Plan of Study.

### **Upon acceptance to the DI, additional requirements include:**

1. Meet technical standards of the program in order to successfully undertake the course of study including evidence of good health. These standards are available upon request from the program.
2. Evidence of immunization or vaccination for vaccine-preventable diseases to include MMR, tetanus, TB test, Hepatitis A, and a complete Hepatitis B series including a titer demonstrating immunity. Other vaccinations may be required such as a seasonal flu vaccine.
3. Evidence of professional liability and health insurance, including hospitalization.
4. Provide documentation of negative tuberculosis status or evidence of appropriate follow-up.
5. Hold and maintain infant, child and adult CPR certification valid throughout the DI.
6. Hold SenSafe Certification valid throughout the DI.
7. Interns must have reliable transportation and provide evidence of vehicle liability insurance that meets or exceeds the minimum requirements of the State of Missouri.
8. Student membership in the AND.
9. Interns must enroll on a full-time basis and progress through the program as a cohort group.
10. Submit a drug screening test and criminal record check\* and receive response that the applicant has not been convicted of any crime pursuant to Section 324.217 or other disqualifications that would prohibit licensure as a registered dietitian.

\*Students who fail these checks or procedures will be subject to further review by the Department of Biomedical Sciences.

## Program Retention and Completion Requirements

1. Interns must satisfactorily complete all assignments and experiences for each internship rotation. Satisfactory completion will be based on performance appraisal which meets standards identified in appraisal rating criteria.
2. Assignments or experiences which were not satisfactorily completed must be corrected or repeated. No more than one graduate course may be repeated.
3. Maintain a GPA of 3.00, with no more than 3 semester hours of graduate work below a grade of "B", and no hours of graduate work below a grade of "C".
4. Receive a satisfactory (3) or higher rating in all required competencies as set forth by ACEND.
5. Students must successfully complete all rotations and all course work in order to receive the verification statement and graduate certificate of completion.
6. All work must be completed and competencies met within 150% (13.5 months) of the time planned for completion.

### Required Courses

Course Code	Course Title	Credits
<a href="#"><u>DTN 740</u></a>	Medical Nutrition Therapy I Practicum	3 hrs
<a href="#"><u>DTN 741</u></a>	Medical Nutrition Therapy II Practicum	3 hrs
<a href="#"><u>DTN 742</u></a>	Public Health Nutrition Practicum	3 hrs
<a href="#"><u>DTN 743</u></a>	Food Service Management Practicum	3 hrs
<a href="#"><u>DTN 744</u></a>	Practicum in Area of Concentrations	3 hrs
<a href="#"><u>DTN 745</u></a>	Topics and Issues in Dietetics	3 hrs

## Nurse Anesthesia Courses

ANE 702 Clinical Conference I

Review of significant cases involving complex anesthesia considerations. 1(1-0) F,S

ANE 705 Clinical Conference II

Prerequisite: ANE 702. A review of significant cases involving complex anesthesia considerations. 1(1-0) F,S

ANE 708 Clinical Conference III

Prerequisite: ANE 705. Continuing review of significant cases involving complex anesthesia considerations. 1(1-0) F,S

ANE 711 Clinical Conference IV

Prerequisite: ANE 708. Continuing review of significant cases involving complex anesthesia considerations. 1(1-0) F,S

#### ANE 714 Orientation to Clinical Anesthesia

Prerequisite: permission from program director. Introduction to anesthesia equipment, monitoring equipment, positioning, intravenous considerations, records, departmental management, ethics, departmental organization and function, legal and professional aspects. 1(1-0) F,S

#### ANE 717 Physics and Chemistry of Anesthesia

A presentation of the principles and laws of physics and chemistry applicable to the field of anesthesia. 1(1-0) F,S

#### ANE 720 Basic Principles of Anesthesia

A presentation of the principles of laws of physics and chemistry applicable to the field of anesthesia long with an in-depth analysis of structure and function of the cardiac, respiratory, circulatory, endocrine, hepatic, renal, neurologic, autonomic, and central nervous systems. 3(3-0) F,S

#### ANE 723 Application of Anatomy and Physiology to Anesthesia II

An in-depth analysis of the special relationships between anesthesiology and the endocrine, hepatatic, renal, neurologic, autonomic, and central nervous systems. 1(1-0) F,S

#### ANE 726 Introduction to Clinical Anesthesia

Preoperative evaluation of patients, airway management, inhalation techniques, common complications of induction and emergence. Supplemental course fee. 2(2-0) F,S

#### ANE 732 Advanced Anesthesia Principles I

Prerequisite: ANE 720. An in-depth review of drugs commonly used to provide the state of anesthesia, review of subjects essential to the practice of anesthesia; emphasis on pediatrics, neonatal, critical care anesthesia, trauma and burns, organ transplants and organ retrieval, obesity and GI disorders, and a study of the requirements for specialized anesthesia care; regional anesthesia, chronic pain, cardiac, and vascular anesthesia. 6(6-0) F

#### ANE 735 Clinical Practicum

Prerequisite: permission of instructor. Clinical experience in the anesthesiology department at Mercy. Specialty content may be included as part of the practicum experience. Section 4 taken in the fourth clinical semester includes specialty content related to professional/legal aspects of nurse anesthesia and cardiovascular anesthesia. May be repeated to a total of 26 hours. Graded Pass/Not Pass only. Supplemental course fee. 1-4 F,S,Su

#### ANE 744 Pharmacology in Anesthesia

Prerequisite: ANE 720. A review of the effects of drugs required by patients with preexisting medical conditions and their continuation in the perioperative period. 2(2-0) Su

#### ANE 750 Advanced Anesthesia Principles II

Prerequisite: ANE 720. A review of the special anesthetic considerations for: anesthesia delivery systems, pre-operative evaluation, monitoring, professional liability, rare and coexisting diseases, hemotherapy and hemostasis, post-anesthesia recovery, minimally invasive procedures, orthopedic, geriatric, outpatient anesthesia, airway management, respiratory physiology and function, thoracic surgery, neuro surgery, patients with liver and kidney disease, acid-base disturbances, and patients undergoing urologic, ophthalmic,

and otolaryngologic surgery. 4(4-0) S

## Biomedical Science Courses

### BMS 602 Special Topics in Biomedical Sciences II

Prerequisite: permission of department head. Selected topics of an advanced nature which will vary from semester to semester. May be repeated by a student for a maximum of 8 hours of credit provided topics are different. May be taught concurrently with BMS 500. Cannot receive credit for both BMS 500 and BMS 602. 1-4 D

### BMS 614 Scanning Electron Microscopy

An introduction to microsurface analysis using scanning electron microscopy and X-ray microanalysis. Theoretical considerations and laboratory procedures involve both techniques but the major emphasis will be on generation of secondary electron images. Some attention is devoted to backscattered electron imaging, X-ray mapping, stereo pair imaging, and related image processing techniques. May be taught concurrently with BMS 514. Cannot receive credit for both BMS 514 and BMS 614. 2(1-2) F

### BMS 616 Transmission Electron Microscopy

Demonstration of basic transmission electron microscopy techniques and Microscope use. Emphasis is on ultrathin sectioning techniques; additional techniques include support film preparation, negative staining, immunogold localization procedures, and digital processing of photographic prints and negatives. May be taught concurrently with BMS 516 . Cannot receive credit for both BMS 516 and BMS 616. 4(2-4) S

### BMS 620 Medical Cell Biology

Prerequisite: admission to the MS in Nurse Anesthesia program. Focus on the molecular aspects of cell biology for students in the Nurse Anesthesia program. Content identical to the lecture part of BMS 622. Cannot receive credit for both BMS 620 and 622. May be taught concurrently with BMS 520. Cannot receive credit for BMS 520 and BMS 620. 3(3-0) F,S

### BMS 622 Molecular Cell Biology

Prerequisite: permission of instructor. Origins, structure and function of cells and basic life processes from a molecular perspective. Major topics focus on the energy, chemical, and information exchanges within and among cells and their environment. Cannot receive credit for both BMS 620 and 622. May be taught concurrently with BMS 521. Cannot receive credit for BMS 521 and BMS 622. 4(3-3) F,S

### BMS 624 Virology

Prerequisite: BMS 622. The molecular biology and pathogenicity of animal viruses; basic techniques of tissue culture and virology will be performed in the laboratory. May be taught concurrently with BMS 524. Cannot receive credit for BMS 524 and BMS 624. 3(2-2) S

### BMS 625 Molecular Biology

Prerequisite: permission of the instructor. In-depth examination of nucleic acid structure, function, regulation, repair, and mutagenesis; principles of genetic engineering. Laboratory provides experience in the techniques used to isolate, separate, quantitate, characterize, and modify nucleic acids. The course also includes an introduction to the GenBank and EMBL nucleic acid and protein sequence databases. May be taught concurrently with BMS 525. Cannot receive credit for BMS 525 and BMS 625. 4(3-3) F,S

### BMS 628 Molecular Mechanisms of Bacterial Pathogenesis

Prerequisite: BMS 622. An in-depth study of the methods of genetic control and production of pathogenic factors employed by disease causing bacteria. The course will use both reference material and primary literature to illustrate the topics under discussion. May be taught concurrently with BMS 528. Cannot receive credit for both BMS 528 and BMS 628. 2(2-0) F

## BMS 629 Molecular Genetics

Prerequisite: BMS 625. Recent advances in the molecular aspects of genetics; mammalian DNA will be characterized and manipulated using modern molecular techniques. May be taught concurrently with BMS 529. Cannot receive credit for both BMS 529 and BMS 629. 3(2-2) F

## BMS 631 Cell Biology of Cancer

Prerequisite: BMS 622. Discussion of the initiation, cellular and genetic events which lead to cancer as well as its prevention, treatment, and personal consequences. An extensive paper and presentation are required. May be taught concurrently with BMS 530. Cannot receive credit for both BMS 530 and BMS 631. 2(2-0) S

## BMS 635 Signal Transduction

Prerequisite: BMS 622. This course will examine the molecular mechanisms of various ligand/receptor interactions. The dynamics involved in ligand/receptor binding will be studied and examples of receptor-mediated signal transduction will be introduced. Signaling pathways within the cell will be discussed. Primary literature and reference materials will be utilized to illustrate specific examples under discourse. May be taught concurrently with BMS 535. Cannot receive credit for both BMS 535 and BMS 635. 2(2-0) S

## BMS 640 Biotechnology

Prerequisite: permission of instructor. The applications of the methodologies of cell and molecular biology in the rapidly-evolving biotechnology and biopharmaceutical industries with an emphasis on the major sectors involving human therapeutics, human diagnostics, and genomics. Cell and molecular biology technologies adapted to mass production techniques to produce the products of biotechnology are surveyed. Typical pathways of product development from original basic research, product inception, clinical trials, regulatory approval, and commercialization are covered. Students will examine the current programs of the research and development of selected biotechnology and big pharmaco corporations. May be taught concurrently with BMS 540. Cannot receive credit for both BMS 540 and BMS 640. 2(2-0) S

## BMS 658 Recombinant DNA Techniques

Prerequisite: C grade or better in BMS 625. A laboratory intensive course designed to extend the molecular biology principles and current techniques used in gene cloning, site-directed mutagenesis, transformation of eukaryotic cells, designing gene expression vectors, performing molecular hybridization techniques, confirming gene expression through reverse transcriptase PCR, and DNA sequencing. May be taught concurrently with BMS 558. Cannot receive credit for both BMS 558 and BMS 658. 3(1-4) F,S

## BMS 660 Medical and Pathologic Physiology Laboratory

Prerequisite: admission to MS in Cell and Molecular Biology or MS in Nurse Anesthesia Program. Experience using laboratory techniques and case studies to enhance knowledge of pathophysiology. May be taught concurrently with BMS 562. Cannot receive credit for both BMS 562 and BMS 660. 1(0-2) F,S

## BMS 661 Medical and Pathologic Physiology

Prerequisite: admission to MS in Cell and Molecular Biology or MS in Nurse Anesthesia Program. A study of physiological dysfunction in human disease with consideration of disease etiology, diagnosis, clinical interpretation, and treatment. Designed for students and professionals in the health sciences. May be taught concurrently with BMS 561. Cannot receive credit for both BMS 561 and BMS 661. 4(4-0) F,S

## BMS 663 Advanced Work Physiology

Review of cellular metabolism, energy transfer, and oxygen transport during work; excitation-contraction coupling in skeletal muscle;



physiological mechanisms of fatigue; neuroendocrine regulation of metabolism and other responses to work; environmental factors in work performance. Emphasis on molecular and cellular mechanisms and contemporary research. May be taught concurrently with BMS 563. Cannot receive credit for both BMS 563 and BMS 663. 3(3-0) S

#### BMS 664 Molecular Endocrinology and Reproductive Physiology

A detailed examination of the physiological, cellular and molecular aspects of human reproduction with particular emphasis on the endocrine aspects of reproduction. May be taught concurrently with BMS 564. Cannot receive credit for both BMS 564 and BMS 664. 3(3-0) D

#### BMS 665 Human Cardiopulmonary Physiology

Prerequisite: admission to MS in Cell and Molecular Biology or MS in Nurse Anesthesia program. A cellular and molecular study of human cardiovascular and respiratory physiology and related human diseases. Emphasis will be on the molecular mechanisms for normal and abnormal functions of the blood, the blood vessels, the heart, the respiratory tract, and the lung. Current research topics and results will be introduced and discussed. May be taught concurrently with BMS 565. Cannot receive credit for both BMS 565 and BMS 665. 3(3-0) F,S

#### BMS 667 Physiology of Exercise Metabolism

Introduction to the study of human metabolic and work physiology. Digestion, absorption, and metabolism of biologically important nutrients as they affect cellular energy transfer; mechanisms of energy transfer in cells during various forms of work; oxygen transport and utilization at the cellular and system level; factors modifying the efficiency of human work performance. May be taught concurrently with BMS 567. Cannot receive credit for both BMS 567 and BMS 667. 4(3-2) F,S

#### BMS 668 Physiology of the Human Gastrointestinal and Urinary Systems

Structure and function of the gastrointestinal and urinary systems including pathophysiology of common clinical conditions. May be taught concurrently with BMS 568. Cannot receive credit for both BMS 568 and BMS 668. 3(3-0) D

#### BMS 669 Neurobiology

Prerequisite: permission of instructor. Study of the mammalian nervous system including anatomy and principles of function. May be taught concurrently with BMS 569. Cannot receive credit for both BMS 569 and BMS 669. 3(3-0) S

#### BMS 670 Principles of Pharmacology

Prerequisite: permission of instructor. Recommended Prerequisite: BMS 622. Overview of the aspects of pharmacology including: pharmacodynamics, pharmacokinetics, pharmacogenomics, drug selectivity, toxicity, metabolism, drug development, and drug regulation. Additionally, an overview of the major classification of drugs and their mechanisms of action will be presented. May be taught concurrently with BMS 570. Cannot receive credit for both BMS 670 and BMS 570. 3(3-0) S

#### BMS 682 Embryology

Recommended Prerequisite: human anatomy. A study of anatomical changes during early animal development with emphasis on vertebrates. Lecture emphasis is on the cellular and subcellular mechanisms that may explain normal development, especially with regard to fertilization and morphogenesis. Laboratory emphasis on the normal development of live and preserved vertebrate embryos. Meets the embryology requirements for students in pre-professional medical, dental, and allied health curricula, as well as any student requiring a background in embryology. May be taught concurrently with BMS 582. Cannot receive credit for both BMS 582 and BMS 682. 4(2-4) S

#### BMS 686 Molecular Mechanisms in Animal Development



An overview of the relationship between the anatomy of developing embryos and fundamental molecular mechanisms that generate this morphology, with an emphasis on vertebrates. Some invertebrate systems will be presented. Selected topics will include cell signaling during fertilization, gene activity in early development, cytoskeleton dynamics during morphogenesis, cell-cell adhesion, master pattern genes, and regulated cell death. May be taught concurrently with BMS 584. Cannot receive credit for both BMS 584 and BMS 686. 3(3-0) S

#### BMS 688 Histology

Microscopic structure of cells, tissues, and organ systems, with special emphasis on human tissues. Extensive laboratory experience with interpretation of structures in stained tissues mounted on microslides. Recommended for students in medical, dental, optometric, and other preprofessional curricula, medical technology, cell and molecular biology, and zoology. May be taught concurrently with BMS 585. Cannot receive credit for both BMS 585 and BMS 688. 4(2-4) F

#### BMS 693 Bioinformatics and Biomedical Resources

Prerequisite: permission of instructor. Use of biomedical source materials and methods of data access, selection, organization, and evaluation. May be taught concurrently with BMS 593. Cannot receive credit for both BMS 593 and BMS 693. 2(2-0) F,S

#### BMS 700 Introduction to Graduate Studies in the Biomedical Sciences

Prerequisite: admission to MS in Nurse Anesthesia program. Study of the researcher role, the research process, and research ethics relating to the biomedical sciences. 3(3-0) F,S

#### BMS 701 Research in the Biomedical Sciences

Prerequisite: admission to MS in Cell and Molecular Biology program; and statistics: MTH 645 or BIO 650 or PSY 711 or concurrent enrollment in statistics. Focus on research skills, scientific writing, and professional development. 3(3-0) F,S

#### BMS 707 Medical Human Anatomy

Prerequisite: admission to Doctor of Physical Therapy program. This course offers an in-depth coverage of basic, applied, and clinical aspects of gross anatomy. Students observe, discuss, teach, learn, and dissect all body systems in detail. This course incorporates traditional didactic lectures, discussions, laboratory dissection, students teaching students in laboratory teaching sessions, and assignments that rely on critical thinking. Students make oral presentations and use the library and other sources of information (such as the internet and our Computer Laboratory) to learn and teach applied gross anatomy. Identical with PTE 707. Cannot receive credit for both BMS 707 and PTE 707. Supplemental course fee. 6(3-10) F

#### BMS 711 Microbial Genetics

Prerequisite: BMS 622. Course is designed to investigate various aspects of microbial genetics using advanced laboratory techniques. Experiments may include DNA and plasmid isolation and characterization, mutagenesis, transformation, transduction and conjugation of bacteria. 2(1-2) S

#### BMS 717 Medical Human Anatomy and Radiology

Prerequisite: admission to the Physician Assistant Studies program. Regional study of the human body. Course will include lecture and laboratory activities including cadaver dissection, study of anatomic models, computer images, x-ray, CAT scan and MRI, and ultrasound imaging. Identical with PAS 717. Cannot receive credit for both BMS 717 and PAS 717. Supplemental course fee. 6(3-11) S

#### BMS 726 Advanced Topics in Cell and Molecular Biology

Prerequisite: permission of instructor. Focused or detailed consideration of advanced or timely topics in cell and molecular biology. May involve group discussion from another institution or represent individual study. Credit for BMS 726 may be given for electronic and

distance learning courses available via the Internet with the approval of the cell and molecular biology faculty who will determine the credit hours and topic title. Variable content course. May be repeated up to 6 hours when topic varies. 1-4 F,S

### BMS 727 Human Gross Anatomy

Prerequisite: admission to MS in Nurse Anesthesia program. In-depth study of the gross anatomy of the human body in areas of interest relating to administration of anesthesia. Supplemental course fee. 2(1-3) F

### BMS 730 Current Literature Topics

Prerequisite: admission to MS in Cell and Molecular Biology program. A weekly forum of faculty and graduate students to discuss reports in the current literature from cell, molecular, and developmental biology. Participants are assigned to report on developments in their specialty or area of interest and provide background for understanding the basis and significance of the report to others in the group. May be repeated. Required each regular semester for full time students. 1(1-0) F,S

### BMS 732 Clinical Preventive Medicine

Prerequisite: permission of instructor. A review of current scientific evidence regarding effective screening tests and interventions to improve health status. 3(3-0) S

### BMS 752 Medical Physiology

Prerequisite: admission to Physician Assistant Studies program or Doctor of Physical Therapy program or MS in Cell and Molecular Biology program. The study of biological function of the human organism. Emphasis will be placed on mechanisms and regulation using examples focusing on the field of medicine. Topics covered will include general cell function, neural, endocrine, cardiovascular, respiratory, gastrointestinal and renal physiology and regulation of acid-base balance. The course stresses the interrelated functions of the body systems in homeostasis and builds on this knowledge to introduce how disease alters the homeostatic controls. 3(3-0) S

### BMS 784 Developmental Genetics

Prerequisite: BMS 625. A study of developmental gene families, their expressions as related to the normal and abnormal development of form and structure, and their intrinsic and extrinsic regulation in various animal model systems, including humans. Specific gene-programmed and gene regulated mechanisms such as those regulating pattern formation, triggering cell differentiation, initiating regeneration (as it applies to specific tissues and organs), controlling apoptosis, and determining rates of cellular and organismal aging are included. 2(2-0) D

### BMS 785 Histology and Tissue Biology

Prerequisite: admission to MS in Nurse Anesthesia program or MS in Cell and Molecular Biology program. This course emphasizes the structure and basic function of all the major tissues and cell types in the human body. It includes normal cell and tissue morphology and the adaptations that occur as a result of various stimuli both normal and abnormal. 2(1-2) S

### BMS 797 Non-Thesis Project

Prerequisite: permission of instructor. In-depth study in an area of interest, culminating in a presentation of an extensive scholarly paper. Graded Pass/Not Pass Only. 2 F,S

### BMS 798 Research

Prerequisite: permission of instructor. Application of the research process in the supervised study of a selected problem. May be repeated for a maximum of 6 hours. Graded Pass/Not Pass only. 1-6 F,S

### BMS 799 Thesis

Prerequisite: permission of instructor. Demonstration of the capacity for research and independent thought culminating in a thesis. May be repeated for a maximum of 6 hours. Graded Pass/Not Pass only. 1-6 F,S

## Dietetics and Nutrition Courses

### DTN 740 Medical Nutrition Therapy I Practicum

Prerequisite: admission to the graduate Dietetic Internship Certificate Program. This is the first of a two-semester course sequence providing field experience in patient/client nutritional management at various sites under professional supervision (37 hours per week). Emphasis will be on utilizing the nutrition care process in providing basic medical nutrition therapy to include at least diabetes, heart disease, lung disease and basic health promotion in an acute or clinical setting. 3 D

### DTN 741 Medical Nutrition Therapy II Practicum

Prerequisite: admission to the graduate Dietetic Internship Certificate Program. This is the second of a two-semester course sequence providing eight weeks of field experience in patient/client nutritional management at various sites under professional supervision (40 hours per week). Emphasis will be on utilizing the nutrition care process in providing medical nutrition therapy to include at least tube feeding, TPN, pre/post surgery patients in an acute or clinical setting with a research component required as part of the practicum. 3 D

### DTN 742 Public Health Nutrition Practicum

Prerequisite: admission to the graduate Dietetic Internship Certificate Program. This course provides a six week field experience in the delivery of public health and community nutrition programs at local, state, national levels at various sites under professional supervision (37 hours per week). Current issues relating to the promotion of good nutrition and preventive health care will be examined. Students will evaluate nutrition components of various community health agencies and participate in the delivery of services. 3 D

### DTN 743 Food Service Management Practicum

Prerequisite: admission to the graduate Dietetic Internship Certificate Program. This course provides a six week field experience (37 hours per week) practicing a systems approach to nutrition services management, including the human dimensions of management, management tools and techniques for assessing accountability, cost containment, productivity and marketing plans. Projects include development of a personnel and operational budget for nutrition services. 3 D

### DTN 744 Practicum in Area of Concentration

Prerequisite: admission to the graduate Dietetic Internship Certificate Program. This course provides a six week field experience (40 hours per week) in either Public Affairs or Rural Health. Field placements and experiences will be developed with each student and the program director. 3 D

### DTN 745 Topics and Issues in Dietetics

Prerequisite: admission to the graduate Dietetic Internship Certificate Program. This course provides a six week forum (3 hours per week) for topics pertinent to the practice setting and transition to professional practice. Topics of interest will cover areas such as managed health care, ethical decision-making, registration examination, charting, etc. May be repeated to 3 hours. 1 D

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Graduate College  
2012-13 Graduate Catalog

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## Department of Communication Sciences and Disorders

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Assistant Professor: Jason L. Box, Alana Mantie-Kozlowski, Shurita Thomas-Tate

Clinical Associate Professor: Deborah Cron, Karen Engler, Jill Oswalt

Clinical Assistant Professor: Elisabeth C. Bell, Tara L. Holland-Oetting, Jaime R. Lanois

Adjunct Faculty: Flint A. Boettcher, Mark Chertoff, Brian T. Faddis, John Ferraro

Emeritus Professor: Harold W. Meyers, Jr., Ronald Netsell

**NOTE: Admission Requirements, Application Requirements/Deadlines, and Retention Requirements apply to all graduate programs in the Communication Sciences and Disorders Department.**

### Programs

#### Doctor of Audiology

##### Program Offerings

AuD, Doctor of Audiology

M.S. in Communication Sciences and Disorders - Education of the Deaf and Hard of Hearing and Speech-Language Pathology

## Admission Requirements

Completed application must be received by the deadline specified on the CSD website to be considered for the fall semester. The number of students who can enter the program each year is limited. Admission to the program is competitive. .

Full admission to the program shall be based on the following components and application requirements/deadlines:

1. A Bachelor's degree (see note under speech-pathology for other requirements related to the degree).
2. The student must have a cumulative GPA of 3.00 or better (4.00 scale) and a 3.00 or better average in the undergraduate major. Probational admission to the program may be granted to an applicant with a GPA below 3.00.
3. Graduate Record Examination. GRE scores are considered along with GPA and other application components.

**CSDCAS application service.** Students will submit applications through CSDCAS and those who are accepted to the program and commit to attending Missouri State University will be required to complete an application through the Graduate College. For instructions on the CSDCAS application process, please visit the CSDCAS website at [www.csdcas.org](http://www.csdcas.org). In addition, submit official GRE score directly to the department at: Communication Sciences and Disorders, Missouri State University, 901 S National Ave., Springfield, MO 65987; Phone (417) 836-5368; Fax (417) 836-4242

Education of the Deaf and Hard of Hearing (EDHH): Students applying to the Master's program in EDHH will not be using the CSDCAS, but will need to apply through the MSU Graduate College. For more information on this please refer to the Graduate College web page at <http://graduate.missouristate.edu>.

EDHH Applicants ONLY: The following 3 components should be mailed or faxed directly to the department at: Communication Sciences and Disorders, Missouri State University, 901 S National Ave., Springfield, MO 65987; Phone (417) 836-5368; Fax (417) 836-4242.

1. Graduate Assistantship Application.
2. Three letters of recommendation directly from individuals able to speak of the applicant's academic and/or practicum achievements.
3. A Personal Statement. This can be a hard copy of the statement from the application or a letter of intent.

Application for Graduate Assistantship to those applying to the AuD, SLP, or EDHH program can be found at <http://graduate.missouristate.edu/assistantship.htm>. Please send your GA application to the department at: Communication Sciences and Disorders, Missouri State University, 901 S National Ave., Springfield, MO 65987; Phone (417) 836-5368; Fax (417) 836-4242.

We will contact you at various times during the application process to apprise you of your application status. If you would like to schedule a visit to our campus, please contact Cathy Hall at (417) 836-5368.

## Retention Requirements

1. To remain in the program, a student must maintain a GPA of 3.00.
2. No course with a grade below a "C" may be applied to a graduate degree.
3. Any grade below a "C" in any given course, didactic or clinical, is not acceptable and may be grounds for dismissal from the CSD program.
4. The accumulation of more than 9 hours of "C" or below in academic and/or practicum courses will result in dismissal from the program.
5. Students must progress satisfactorily through the levels of clinical practicum as defined in the Clinic Handbook (<http://www.missouristate.edu/catalog/CommSci.htm>)

[missouristate.edu/assets/csd/CSD\\_handbook.pdf](http://missouristate.edu/assets/csd/CSD_handbook.pdf)).

6. Clinical hours from clinical classes where a grade of "C" or less was earned will not be counted toward required clinical experiences.
7. While grades are important, the student's continuation in the CSD Program is based on the *composite picture* of the ability of the student to perform satisfactorily in the clinical phase of training as well as the academic components.

The CSD Department reserves the right to refuse enrollment or program continuation to any student. This refusal will be determined by the judgment of the CSD Graduate Faculty and CSD Department Head based upon the student's ability to successfully complete clinical practicum assignments or to assume patient care responsibilities and/or function as a clinician/teacher. Additionally, if a student has failed to demonstrate an attitude of professionalism as judged by the CSD Graduate Faculty and CSD Department Head, a student may be dismissed from the program.

According to the Missouri State University Code of Student Rights and Responsibilities <http://www.missouristate.edu/StudentConduct/12331.htm>, The Codes of Ethics of American Speech, Language, and Hearing Association, Council for Exceptional Children (CEC), and requirements of the Communication Sciences and Disorders Department, academic integrity and honesty are the foundation of the University community. Students are expected to practice academic and clinical integrity in all assigned work. Students are also expected to be honest in all interactions with other students, faculty, and staff, and be professional in attitude, actions and attire.

The University, and the CSD department, has the inherent right to promulgate appropriate rules and regulations for the orderly conduct of University business and the protection of the health and safety of the University community. Students are expected to comply with all published and stated rules and regulations. If a student is accused of violating any code (theft, academic dishonesty, possession of drugs, etc.) they will be subject to warnings, loss of privileges, probation, suspension, and/or dismissal.

## Essential Functions

The Essential Functions of Audiologists, Speech-Language Pathologists and Educators of the Deaf and Hard of Hearing establish the expectations and requisite abilities considered necessary for professionals in the field of audiology, speech-language pathology and education of the deaf and hard of hearing. Students in the MSU Department of Communication Sciences and Disorders/ are to achieve the level of competency required for graduation and practice. It is recognized that degrees of ability vary widely among individuals. Admission candidates who feel they may not be able to acquire the essential functions set forth are encouraged to contact the Department of Communication Sciences and Disorders. Any admission candidate who may require academic accommodations to fulfill the essential functions due to a disability is encouraged to contact the Office of Disability Support Services, Office of Student Life and Development at 417-836-4192 (voice) or 417-836-6792 (TTY). The Department of Communication Sciences and Disorders at Missouri State University seeks to ensure that qualified persons with disabilities are not denied admission or subject to discrimination in admissions. The Department is committed to enabling students by any reasonable means or accommodations to complete their course of study.

The following Essential Functions are consistent with the American Speech-Language and Hearing Association or Council on the Education of the Deaf clinical skill performance guidelines and the Missouri Department of Elementary and Secondary Education guidelines expected of the first year speech-language therapists in public schools. All essential functions are introduced and coached within CSD coursework and practicum.

### Physical Abilities:

- Participate in professional responsibilities/activities for up to four-hour blocks of time with one or two breaks.
- Move independently to, from, and within the work setting.
- Provide for one's own personal hygiene.
- Manipulate screening/diagnostic materials, including completion of screening/evaluation protocols.



- Effectively implement necessary treatment plan appropriate for the patient, including use of materials/instrumentation and data collection.
- Provide a safe environment for others in responding quickly to emergency situations including fire, choking, etc., and in application of universal precautions (standardized approach to infection control).
- Visually monitor patient responses and materials.
- Make accurate judgments about speech and/or acoustic signals (requirements might vary for students in the EDHH program).

#### Behavioral and Social Attributes:

- Maintain emotional and mental health required for use of intellectual abilities, prompt completion of responsibilities, and development of appropriate relationships with patients and colleagues.
- Maintain composure and emotional stability in demanding situations.
- Adapt to changing environments and situations.
- Communicate effectively with people in person, by phone, and in written form by considering the communication needs and cultural values of the listener (requirements might vary for students in the EDHH program).
- Understand and respect supervisory authority.
- Maintain appropriate professional behavior, including punctuality and regular attendance.
- Demonstrate compassion, integrity, interest, and motivation in delivering professional services to other individuals.
- Participate in collaboration with other professionals.

#### Intellectual Abilities:

- Demonstrate the mental capacity to learn and assimilate professional information, including the ability to read and comprehend professional literature and reports.
- Solve clinical problems through critical analysis.
- Seek relevant case information, synthesize, and apply concepts and information from various sources and disciplines.
- Write discipline-specific papers and clinical reports in English.
- Speak Standard American English intelligibly, including the ability to model English phonemes (requirements might vary for students in the EDHH program).
- Analyze, synthesize, and interpret ideas and concepts in academic and diagnostic/treatment settings.
- Maintain attention and concentration for sufficient time to complete clinical activities for up to four-hour blocks of time with one or two breaks.
- Schedule and prioritize activities, and provide documentation in a timely manner.
- Comply with administrative, legal, and regulatory policies.

The Department is committed to enabling students by any reasonable means or accommodations to complete the course of study leading to the Master of Science in Communication Sciences and Disorders or an AuD degree.

### **Additional Program Requirements**

Students must pay for and pass both a background/crime records check and drug test prior to their first clinical placement. The CSD Background Check and Drug Testing Policy and Procedures document is available in the CSD Department Office (Professional Building, Room 237).

Students will be required to provide their Praxis Examination scores to the department prior to graduation.

## Program Description

The Au.D. program in the Department of Communication Sciences and Disorders is a full-time doctoral program requiring a minimum of 105 credit hours over approximately four (4) years consisting of both academic course work and clinical practicum.

The Au.D. program is designed to prepare professionals to enter the workplace with a high level of skills and knowledge through intensive academic and clinical experiences. The program is designed to prepare a person for a career in the hospitals, private practice settings, industrial settings, medical offices, clinical settings and rehabilitation centers.

## Program Requirements

A minimum of 105 semester hours shall be completed, including the following:

1. Academic course work requirements for the Certificate of Clinical Competence of the American Speech-Language-Hearing Association (CCC-A).
2. Clinical practicum requirements for the Certificate of Clinical Competence of the American Speech-Language-Hearing Association (CCC-A).
3. Completion of a Doctoral Project or Thesis.
4. Comprehensive Examinations
5. Clinical Externship

## Doctor of Audiology (Au.D.) Curriculum

First Year

Fall 13 credits (12 +1)

<u><b>CSD 852</b></u>	Advanced Hearing Science	3 hrs
<u><b>CSD 834</b></u>	Diagnostic Audiology I	3 hrs
<u><b>CSD 849</b></u>	Basic Audiometry	3 hrs
<u><b>CSD 807</b></u>	Auditory System Physiology/Neurophysiology	3 hrs
<u><b>CSD 895</b></u>	Advanced Clinical Practice	1 hr

Spring 10 credits (9 +1)

<u><b>CSD 868</b></u>	Amplification Systems I	3 hrs
<u><b>CSD 873</b></u>	Educational Audiology	3 hrs
<u><b>CSD 875</b></u>	Medical Audiology	3 hrs
<u><b>CSD 895</b></u>	Advanced Clinical Practice	1 hr

Summer 7 credits (6 +1)

<u><b>CSD 850</b></u>	Pediatric Audiology	3 hrs
<u><b>CSD 876</b></u>	Hearing Conservation and Calibration	3 hrs
<u><b>CSD 895</b></u>	Advanced Clinical Practice	1 hr

Second Year

Fall 12 credits (10 +2)

<u><a href="#">CSD 835</a></u>	Diagnostic Audiology II	3 hrs
<u><a href="#">CSD 871</a></u>	Amplification Systems II	3 hrs
<u><a href="#">CSD 878</a></u>	Professional Issues and Practice Management	4 hrs
<u><a href="#">CSD 895</a></u>	Advanced Clinical Practice	2 hr

Spring 13 credits (11 +2)

<u><a href="#">CSD 800</a></u>	Research Methods in Audiology	3 hrs
<u><a href="#">CSD 842</a></u>	Vestibular Assessment and Rehabilitation	4 hrs
<u><a href="#">CSD 844</a></u>	Electrophysiology	4 hrs
<u><a href="#">CSD 895</a></u>	Advanced Clinical Practice	2 hr

Summer 10 credits (8 +2)

<u><a href="#">CSD 848</a></u>	Cochlear Implants and Other Assistive Listening Devices	3 hrs
<u><a href="#">CSD 866</a></u>	Counseling in Audiology	3 hrs
<u><a href="#">CSD 895</a></u>	Advanced Clinical Practice	2 hrs
<u><a href="#">CSD 884</a></u>	Doctoral Project	2 hrs
	OR	
<u><a href="#">CSD 999</a></u>	Doctoral Thesis	2 hr

### Third Year

Fall 9 credits (6 +3)

<u><a href="#">CSD 945</a></u>	Central Auditory Processing Disorders	3 hrs
<u><a href="#">CSD 946</a></u>	Genetics and Hearing Loss	1 hr
<u><a href="#">CSD 895</a></u>	Advanced Clinical Practice	3 hrs
<u><a href="#">CSD 884</a></u>	Doctoral Project	2 hrs
	OR	
<u><a href="#">CSD 999</a></u>	Doctoral Thesis	2 hrs

Spring 11 credits (8 +3)

<u><a href="#">CSD 921</a></u>	Sign Language I	3 hrs
<u><a href="#">CSD 972</a></u>	Advanced Auditory Rehabilitation	3 hrs
<u><a href="#">CSD 895</a></u>	Advanced Clinical Practice	3 hrs
<u><a href="#">CSD 884</a></u>	Doctoral Project	2 hrs
	OR	
<u><a href="#">CSD 999</a></u>	Doctoral Thesis	2 hrs

Summer 6 credits

<u><a href="#">CSD 996</a></u>	Audiology Externship	6 hrs
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### Fourth Year

Fall 9 credits

<b><u>CSD 996</u></b>	<b>Audiology Externship</b>	<b>9 hrs</b>
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Spring 9 credits

<b><u>CSD 996</u></b>	<b>Audiology Externship</b>	<b>9 hrs</b>
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## Program Accreditation

The AuD program is accredited by the Council on Academic Accreditation (CAA) of the American Speech-Language-Hearing Association.

## Additional Program Requirements

Students must pay for and pass both a background/crime records check and drug test prior to their first clinical placement. The CSD Background Check and Drug Testing Policy and Procedure document is available in the CSD Department Office (Professional Building, room 237).

Students will be required to provide their Praxis examination scores to the department prior to graduation.

## Accumulation of "C" Grades

The accumulation of more than 9 hours of "C" or below in academic and/or practicum courses will result in dismissal from the program.

## Program Accreditation

The AuD. program is accredited by the Council on Academic Accreditation (CAA) of the American Speech-Language-Hearing Association.

# Master of Science, Communication Sciences and Disorders

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## Program Description

The Masters program in Communication Sciences and Disorders offers two areas of concentration; education of the deaf and hard of hearing and speech-language pathology. The program is designed to prepare students to make intelligent decisions and take appropriate, thoughtful action. The program is organized to encourage students to use critical thinking and problem-solving to identify and meet the communication needs of individuals and families.

## Program Requirements

Non-Thesis Option: A minimum of 46 semester hours in Education of the Deaf and Hard of Hearing or a minimum of 58 semester hours in Speech-Language Pathology shall be completed, including the following:

1. Graduate course work to meet academic requirements for the Certificate of Clinical Competence of the American Speech-Language-Hearing Association (CCC); or the Council on Education of the Deaf (CED).
2. Clinical practicum requirements for the Certificate of Clinical Competence of the American Speech-Language-Hearing Association (CCC); or the Council on Education of the Deaf (CED).
3. Completion and approval of CSD portfolio (Education of the Deaf and Hard of Hearing only).
4. Completion of a master's project.
5. Comprehensive Examinations.

Completion of course work for speech-language pathology requires two academic years (fall, spring) and one summer; enrollment in two summer sessions is encouraged. Students eligible for student teaching (CSD 796) will be placed in approved sites and in locations to be determined by the CSD faculty.

Thesis Option: Requirements included in items 1, 2 and 3 above shall pertain. Completion of the Master's Thesis and oral defense shall replace items 4 and 5 listed above.

## Master of Science in CSD, emphasis Speech-Language Pathology

The student must possess an undergraduate degree in Communication Sciences and Disorders (CSD), or an undergraduate degree and required pre-professional CSD coursework.

### Summer 1

Course Code	Course Title	Credits
<a href="#"><u>CSD 718</u></a>	Fluency Disorders	2 hrs
<a href="#"><u>CSD 733</u></a>	Introduction to Augmentative and Alternative Communication	2 hrs
<a href="#"><u>CSD 720</u></a>	Voice Disorders	2 hrs

### Fall 1

Course Code	Course Title	Credits
<a href="#"><u>CSD 728</u></a>	Advanced Study of Phonological (Speech Sound) Disorders in Children	3 hrs
<a href="#"><u>CSD 712</u></a>	Child Language I	3 hrs
<a href="#"><u>CSD 713</u></a>	Child Language II	3 hrs
<a href="#"><u>CSD 724</u></a>	Aphasia	3 hrs
<a href="#"><u>CSD 795</u></a>	Advanced Clinical Practice (Clinical Practicum)	2 hrs

### Spring 1

Course Code	Course Title	Credits
<a href="#"><u>CSD 702</u></a>	Research Methods in Communication Disorders	3 hrs
<a href="#"><u>CSD 725</u></a>	Motor Speech Disorders	3 hrs
<a href="#"><u>CSD 729</u></a>	Cognitively-Based Communication Disorders	3 hrs
<a href="#"><u>CSD 795</u></a>	Advanced Clinical Practice (Clinical Practicum)	4 hrs

### Summer 2

Course Code	Course Title	Credits
<a href="#"><u>CSD 718</u></a>	Fluency Disorders (if not taken Summer 1)	2 hrs
<a href="#"><u>CSD 733</u></a>	Introduction to Augmentative and Alternative Communication (if not taken in Summer 1)	2 hrs
<a href="#"><u>CSD 720</u></a>	Voice Disorders (if not taken in Summer 1)	2 hrs
<a href="#"><u>CSD 784</u></a>	Non-Thesis Project OR	1 hr
<a href="#"><u>CSD 799</u></a>	Masters Thesis	2 hrs
<a href="#"><u>CSD 795</u></a>	Advanced Clinical Practice (Clinical Practicum)	3 hrs

### Fall 2

Course Code	Course Title	Credits
<a href="#"><u>CSD 741</u></a>	Dysphagia	3 hrs
<a href="#"><u>CSD 732</u></a>	Speech and Language Assessment and Treatment for Special Populations	3 hrs
<a href="#"><u>CSD 784</u></a>	Non-Thesis Project OR	1 hr
<a href="#"><u>CSD 799</u></a>	Masters Thesis	2 hrs
<a href="#"><u>CSD 795</u></a>	Advanced Clinical Practice (Clinical Practicum)	4 hrs

Spring 2

Course Code	Course Title	Credits
<a href="#"><u>CSD 791</u></a>	Professional Issues in Speech-Language Pathology	3 hrs
<a href="#"><u>CSD 784</u></a>	Non-Thesis Project OR	1 hr
<a href="#"><u>CSD 799</u></a>	Masters Thesis	2 hrs
<a href="#"><u>CSD 797</u></a>	Speech-Language Pathology Externship	6 hrs

The program is designed to prepare a person for a career in the public schools, special schools, special school districts; or in clinical settings such as hospitals, guidance centers, rehabilitation centers, nursing homes; or in industry; or in private practice; or others. The person majoring in this area may also prepare for entry into a Ph.D. program.

### Program Accreditation

The masters program emphasis in Speech-Language Pathology is accredited by the Council on Academic Accreditation (CAA) of the American Speech-Language-Hearing Association (ASHA).

### Additional Program Requirements

Students must pay for and pass both a background/crime records check and drug test prior to their first clinical placement. The CSD Background Check and Drug Testing Policy and Procedure document is available in the CSD Department Office (Professional Building, room 237).

Students will be required to provide their Praxis examination scores to the department prior to graduation.

### Certification Requirements – Deaf and Hard of Hearing Emphasis

Contact your advisor or the Department Head for the requirements and coursework necessary to meet state and national certification requirements. Students pursuing certification in Education of the Deaf and Hearing Impaired will be required to complete additional education coursework through the College of Education and are required to collect and assemble materials for completion of a professional portfolio.

In order to be recommended for state certification, each student must:

1. Successfully complete all Practicum requirements with a grade of “B” or better
2. Successfully complete the graduate degree in Communication Sciences and Disorders (Education of Deaf and Hard of Hearing concentration).
3. Successfully complete the state approved exit assessment.
4. Complete all state certification requirements in effect at the time a recommendation is made.

## Accelerated Master of Science in Communication Sciences and Disorders, Education of the Deaf and Hard of Hearing Program

### Entrance Requirements

To be eligible to apply for admission to this program, the student must:

1. have junior standing and an overall GPA of 3.00 or better;
2. have completed general education requirements;
3. have completed the following courses: EDC 150, SPE 310, CSD 330, CSD 312, CSD 360, EDC 350 and CSD 321 prior to applying to graduate school in the spring of their junior year; and
4. strong letters of recommendations.

After successful completion of the Bachelor of Science in CSD requirements, all students in the accelerated master's program will receive the BS and will be granted full admission to the graduate college.

Please see admission requirements in the Graduate Catalog under Master of Science in Communication Sciences and Disorders for a complete list of application requirements and deadlines.

### EDHH Accelerated Masters Curriculum

#### Junior Fall - 15 hrs

<u><b>CSD 321</b></u>	Conceptually Accurate Signed English I (also offered in the spring)	3 hrs
<u><b>CSD 330</b></u>	Introduction to American Sign Language (ASL)	3 hrs
<u><b>CSD 380</b></u>	Development, Diversity and Deafness	3 hrs
<u><b>CSD 360</b></u>	Hearing Science	3 hrs
<u><b>EDC 350</b></u>	School and Society	3 hrs

#### Junior Spring - 15 hrs

<u><b>CSD 331</b></u>	American Sign Language (ASL) II	3 hrs
<u><b>CSD 370</b></u>	Audiology	3 hrs
<u><b>CSD 312</b></u>	Normal Language Acquisition (also offered in fall & summer)	3 hrs
<u><b>CSD 572</b></u>	Aural Rehabilitation	3 hrs
<u><b>MTH 320</b></u>	Foundations of Mathematics for Teachers	3 hrs

#### Senior Fall - 15 hrs - Graduate Total 3 hrs

<u><b>CSD 322</b></u>	Conceptually Accurate Signed English II	3 hrs
<u><b>CSD 497</b></u>	Observation Clinical Practicum (MSU Preschool Program for D/HH)	3 hrs
<u><b>CSD 762</b></u>	Speech Development: Deaf and Hard of Hearing I	3 hrs
<u><b>RDG 318</b></u>	Foundations of Reading Instruction	3 hrs
<u><b>SPE 515</b></u>	Foundations of Applied Behavior Analysis and Interventions for Teachers in Applied Settings	3 hrs
	OR	
<u><b>PSY 508</b></u>	Behavior Management and Change	3 hrs



Senior Spring - 16 hrs - Graduate Total 10 hrs - 1 hr Senior Permission

<a href="#"><u>CSD 795</u></a>	Advanced Clinical Practice (MSU Preschool Program for D/HH)	3 hrs
<a href="#"><u>CSD 562</u></a>	Psycho-Social Implications of Being Deaf and Hard of Hearing	3 hrs
<a href="#"><u>CSD 760</u></a>	Language Development: Deaf and Hard of Hearing I	3 hrs
<a href="#"><u>CSD 763</u></a>	Speech Development: Deaf and Hard of Hearing II (2+1 AH lab)	3 hrs
<a href="#"><u>CSD 795</u></a>	Advanced Clinical Practice (AH-linked to Parent-Infant Program)	1 hrs

Graduate Summer - 9 hrs

<a href="#"><u>CSD 765</u></a>	Reading: Deaf and Hard of Hearing	3 hrs
<a href="#"><u>CSD 758</u></a>	Early Intervention Assessment: Deaf and Hard of Hearing I	2 hrs
<a href="#"><u>CSD 759</u></a>	Early Intervention: Deaf and Hard of Hearing II	2 hrs
<a href="#"><u>CSD 795</u></a>	Advanced Clinical Practice (MSU Parent-Infant Program D/HH)	2 hrs

Graduate Fall - 12 hrs

<a href="#"><u>CSD 761</u></a>	Language Development: Deaf and Hard of Hearing II	3 hrs
<a href="#"><u>CSD 764</u></a>	Instructional Strategies and Assessment: Deaf and Hard of Hearing	3 hrs
<a href="#"><u>CSD 795</u></a>	Advanced Clinical Practice Off-Site (Elementary D/HH)	3 hrs
<a href="#"><u>CSD 784</u></a>	Non-Thesis Project	3 hrs
	OR	
<a href="#"><u>CSD 799</u></a>	Master's Thesis	3 hrs
<a href="#"><u>CSD 766</u></a>	Counseling: Deaf and Hard of Hearing	3 hrs

Graduate Spring - 12-14 hrs

<a href="#"><u>CSD 796</u></a>	Supervised Teaching	8 hrs
<a href="#"><u>CSD 784</u></a>	Non-Thesis Project	1 hrs
	OR	
<a href="#"><u>CSD 799</u></a>	Master's Thesis	3 hrs

Graduate Fall (elective option for students)

<a href="#"><u>CSD 201</u></a>	Introduction to Communication Disorders	3 hrs
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## Additional Requirements of the Program

Students must pay for an pass both a background/crime records check and drug test prior to beginning the Accelerated Master's Program in CSD, Education of the Deaf and Hard of Hearing.

## Mixed Credit Course Options

If accepted to the accelerated program, the following 12 hours of courses may apply to both the undergraduate and graduate degrees:

[CSD 760](#), [CSD 762](#), [CSD 763](#) and [CSD 795](#).

Before enrolling in a course to be counted toward both undergraduate and graduate credit and to count the course toward the masters degree, an undergraduate student must be accepted into the accelerated program and receive prior approval from the graduate advisor, Department Head of CSD, and the Dean of the Graduate College using a Mixed Credit Form. Acceptance into the program

and all approvals must be completed prior to the end of the Change of Schedule Period for the semester.

## Retention and Progression

The Accelerated Master's Option in the Education of the Deaf and Hard of Hearing program provides an opportunity for undergraduate students to begin graduate course work during the senior year, and complete the program in three graduate semesters following coursework in the junior and senior years. A complete list of Retention Requirements can be found in this catalog under Master of Science in Communication Sciences and Disorders.

## Communication Sciences and Disorders Courses

### CSD 623 Neural Bases of Human Communication

Prerequisite: permission. Study of the nervous system and its role in normal and abnormal speech and language processing. May be taught concurrently with CSD 522. Cannot receive credit for both CSD 522 and CSD 623. 3(3-0) F

### CSD 669 Psycho-Social Implications of Being Deaf and Hard of Hearing

Prerequisite: permission. Characteristics and problems of persons who are D/HH as they affect interaction with general society. Emphasis on interpersonal relationships through the lifespan. Introduction to adolescent development and psychology of learning of the typical child. May be taught concurrently with CSD 562. Cannot receive credit for both CSD 562 and CSD 669. 3(3-0) S

### CSD 673 Aural Rehabilitation

Prerequisite: permission. Principles of habilitation/rehabilitation of communication disorders related to hearing impairment. Types of amplification and assistive listening devices used in classrooms. Issues of classroom acoustics and ways to optimize the classroom listening environment. May be taught concurrently with CSD 572. Cannot receive credit for both CSD 572 and CSD 673. 3(3-0) S

### CSD 681 Technical Solutions in Communication Disorders

Prerequisite: permission. Review and demonstration of current hard- and software systems for the evaluation, treatment, and research of communication disorders. May be taught concurrently with CSD 580. Cannot receive credit for both CSD 580 and CSD 681. 3(3-0) F, S

### CSD 701 Research: Deaf and Hard of Hearing

Prerequisite: permission. Foundation for research study in the education of individuals who are deaf and hard of hearing. Emphasis will be placed on evaluation of research and professional writing as it pertains to education of individuals who are deaf and hard of hearing. 1(1-0) Su

### CSD 702 Research Methods in Communication Disorders

Prerequisite: permission. Nature of qualitative and quantitative research methodology, experimental design, scientific writing, and the exploration of efficacy and effectiveness in evidence-based practice. Examination of research literature through critical reviews of articles. The design of research pertaining to speech, language and hearing functions, and the analysis of data. 3(3-0) F,S

### CSD 710 Developmental Psycholinguistics

Prerequisite: permission. Presentation of current theories associated with psycholinguistic development. Focus will be on auditory perception, individual differences, cognitive hypotheses, and stage transition. 3(3-0) F

### CSD 712 Child Language I

Prerequisite: permission. Issues related to the area of language development and disorders in children age birth to five will be

presented. The course will focus on best practices for the assessment and treatment of children age birth to five with language disorders. 3(3-0) F

#### CSD 713 Child Language II

Prerequisite: permission. Current issues within the area of oral and written language development and disorders in school-age children and adolescents will be discussed. Methods for critically evaluating research and applying this research to clinical practice with children and adolescents with language disorders will be covered. Focus of course is on optimal methods for assessment and treatment of language disorders in children and adolescents. 3(3-0) F,S

#### CSD 714 Language Disorders: Rehabilitation

Prerequisite: permission. Diagnostic and therapeutic strategies for language disorders in adults associated with auditory discrimination, perception, short and long-term memory, semantic and syntactical concept formation, and retrieval of auditory information. 3(3-0) D

#### CSD 715 Infants and Toddlers: Communication Assessment and Treatment

Prerequisite: permission. Issues regarding communication assessment and intervention for infants and toddlers will be discussed. Course content will include a study of at-risk factors and established risks for developmental disabilities. Service delivery models for the assessment and treatment of communication disorders for infants and toddlers will be presented. Play-based assessment and intervention strategies will be included in course content. 2(2-0) Su

#### CSD 716 Craniofacial Anomalies

Prerequisite: permission. The study of communication and associated problems related to congenital and acquired craniofacial anomalies. Emphasis on interdisciplinary procedures relative to amelioration of communication deficits manifest in these anomalies. 3(3-0) F

#### CSD 718 Fluency Disorders

Prerequisite: permission. Theoretical, clinical, and experimental approaches to the study and treatment of fluency disorders. 2(2-0) F,Su

#### CSD 720 Voice Disorders

Prerequisite: permission. The study of the human voice and its disorders. Emphasis on 1) evaluation and treatment of neurogenic, psychogenic, and ideopathic voice disorders, and 2) respiratory, laryngeal and velopharyngeal dysfunction. 2(2-0) F,Su

#### CSD 723 Sign Language

Prerequisite: CSD 321 or CSD 921; and permission. Emphasis on the expansion of Manually Coded English sign language skills through the use of conversation and the increased development of vocabulary. Students will be required to complete a project in an area related to their professional course of study. May be taught concurrently with CSD 322 or CSD 922. May only receive credit for one of the following: CSD 322, CSD 723, and CSD 922. 3(3-0) F

#### CSD 724 Aphasia

Prerequisite: permission. Emphasis on language impairment as a result of brain dysfunction. A theoretical and clinical analysis of the neurolinguistic basis for describing, diagnosing, remediating, and/or providing means for alternative communication for individuals who suffer from aphasia. 3(3-0) F,S

#### CSD 725 Motor Speech Disorders

Prerequisite: permission. Study of neurogenic speech disorders. Emphasis on the evaluation and treatment of (1) the dysarthrias and dyspraxias, and (2) underlying neurologic and vocal tract dysfunction. 3(3-0) F

### CSD 726 Diagnostics: Speech and Language Assessment

Prerequisite: permission. Principles and procedures for tests of language and speech dysfunctions. Interpretation of diagnostic findings leading to clinical decision-making, rehabilitative planning and reporting. Students obtain clinical experience in diagnostic procedures at the University Speech and Hearing Clinic. 3(2-2) D

### CSD 728 Advanced Study of Phonological (Sound System) Disorders in Children

Prerequisite: permission. Discussion of processes involved in phonological production and how breakdowns in these processes, including hearing loss or deafness, lead to specific problems. Methods for critically evaluating research and applying this research to the study of phonological disorders will be covered. Focus of course is on optimal methods for assessment and treatment of phonological disorders in children. 3(3-0) F

### CSD 729 Cognitively-Based Communication Disorders

Prerequisite: permission. Exploration of the pathophysiology, nature, appraisal, prevention, and management of a variety of neurogenic communication disorders, excluding the aphasias, that affect human cognition. These disorders include right hemisphere syndrome, and traumatic brain injury, in both children and adults, and the dementias. 3(3-0) S

### CSD 732 Speech and Language Assessment and Treatment for Special Populations

Prerequisite: permission. Information on the speech and language disabilities associated with children with special needs. Target populations will include children with cognitive disabilities, dual sensory disabilities, autism spectrum disorders, behavioral disabilities and/or physical disabilities, and children who are deaf and hard of hearing. Communication development and prevention, assessment, and intervention for each of these populations will be addressed. 3(3-0) D

### CSD 733 Introduction to Augmentative and Alternative Communication

Prerequisite: permission. This course will cover the basic components of AAC as well as assessment and intervention strategies. In addition, the operation, evaluation, and application of the technology associated with AAC will be presented. AAC assessment and intervention will be discussed in regards to the following populations: children and adults with developmental disabilities and individuals with acquired disabilities. 2(2-0) S,Su

### CSD 741 Dysphagia

Prerequisite: permission. Comprehensive study of normal and disordered swallowing. Special emphasis will be placed on the evaluation and treatment of disordered swallowing processes. 3(3-0) F

### CSD 742 Speech-Language Services in Medical Settings

Prerequisite: permission. This course is designed to provide a guide to the concepts, policies, and procedures encountered in the medical setting. It is hoped that at the end of this course, students will feel more comfortable entering the medical setting in various practicum settings that are required in our graduate program. 2(2-0) Su

### CSD 758 Early Intervention Assessment: Deaf and Hard of Hearing I

Prerequisite: permission. Methods and techniques for working with families as well as in the educational environment of infants and children who are deaf or hard-of-hearing from birth through the beginning elementary school years. Emphasis on methods and procedures of formal and informal assessment. 2(2-0) Su

### CSD 759 Early Intervention: Deaf and Hard of Hearing II

Prerequisite: permission. Methods and techniques for working with families who have infants, toddlers and/or young children who are

deaf or hard of hearing from birth to the beginning elementary school years in both natural and educational environments. Emphasis on methods and procedures for intervention, interpretation of assessment data and prescriptive instruction. 2(2-0) Su

#### CSD 760 Language Development: Deaf and Hard of Hearing I

Prerequisite: permission. Theories and research into language development in individuals with hearing and those with losses of hearing are explored with implications for assessment and intervention. Problems and issues related to language development are presented for reflection and discussion. 3(3-0) F

#### CSD 761 Language Development: Deaf and Hard of Hearing II

Prerequisite: permission. Methods, strategies, and techniques of language development that may be applied in assessing and instructing students with hearing losses. 3(3-0) S

#### CSD 762 Speech Development: Deaf and Hard of Hearing I

Prerequisite: permission. Theories of speech development as they apply to persons who are deaf or hard of hearing. Phonetics including transcription. Anatomy and physiology of the speech mechanisms. Techniques for analyzing speech will be stressed. Two semester sequence, CSD 763 to follow. 3(3-0) F

#### CSD 763 Speech Development: Deaf and Hard of Hearing II

Prerequisite: CSD 762 and permission. Application of information learned in CSD 762. Utilizing a collaborative model for the development of speech/spoken language is emphasized by maximizing the use of residual hearing and cochlear implant technology across settings. 3(3-0) S

#### CSD 764 Instructional Strategies and Assessment: Deaf and Hard of Hearing

Prerequisite: permission. Formal and informal assessment, the concept of curriculum, instructional placement and programming for students who are deaf or hard of hearing from the upper elementary through the secondary school levels, including career education. Development of instructional strategies with an emphasis on individualized instruction. 3(3-0) S

#### CSD 765 Reading: Deaf and Hard of Hearing

Prerequisite: permission. Theories of reading with an emphasis on adaptations for assessment and intervention for students who are deaf or hard of hearing. Introduction to available resources. 3(3-0) S

#### CSD 766 Counseling: Deaf and Hard of Hearing

Prerequisite: permission. Theoretical bases of counseling and the role of the educator in the counseling process. Emphasis on the counseling process as it affects the educational, personal, social, and familial adjustment of individuals who are deaf or hard of hearing. 3(3-0) Su

#### CSD 767 Amplification Systems in the Educational Setting

Prerequisite: permission. The different types of amplification and assistive listening devices used in classrooms will be discussed in detail. Students will be able to discuss issues of acoustics and amplification devices in educational settings. They will learn vocabulary needed for communication with other professionals, and they will obtain hands-on experience with hearing aids and assistive devices found in classrooms. 3(3-0) F

#### CSD 782 Acoustic Phonetics

Prerequisite: permission. Investigation of the acoustic characteristics of normal and pathological speech and voice production. 3(2-2) D

### CSD 783 Physiological Phonetics

Prerequisite: permission. Analyses of the physiological features underlying voice, speech and language processes; theories of encoding, and encoding control mechanisms. 3(2-2) D

### CSD 784 Non-Thesis Project

Prerequisite: permission. In-depth study in an area of communication sciences and disorders, culminating in a presentation of an extensive scholarly paper. Syllabi with specific expectations will be developed for each semester. SLP Emphasis: Students register for 1 credit hour per semester for a minimum of 3 semesters; may be repeated. DHH Emphasis: Students register for 3 credit hour in the first semester of enrollment and then 1 credit hour in the subsequent semester for a minimum total of 4 credit hours, may be repeated. 1-3 F,S,Su

### CSD 788 Professional Issues I: Education Settings

Prerequisite: permission. This class will be taught in conjunction with student's school practicum experiences and will focus on professional issues in school settings. Topics will include overview of service delivery systems, business aspects of service delivery, scope of practice, quality assurance/assessment, legal and ethical responsibilities, professional organizations, and career development issues. 3(3-0) F

### CSD 789 Professional Issues

Prerequisite: permission. This functionally-oriented course is designed to complement students' concurrent clinical externships in educational and healthcare settings. Issues include, but are not limited to, in-depth discussion and analysis of relevant local, state, and national policies and procedures for ethical and effective evidence-based service delivery; models of collaborative team assessment and treatment applications to a variety of speech-language pathology settings; professional organizations; and recognition of potential external influences that may impact treatment objectives and length of intervention. 3(3-0) S

### CSD 790 Workshop in Communication Disorders

Prerequisite: permission. A concentration of work to improve the skill and knowledge in specific areas. Each workshop will be concerned with a single topic. Number of class hours determined by length of workshop. Thirty clock hours equal 1 semester hour. May be repeated to a maximum of 6 hours credit. 1-6 D

### CSD 791 Professional Issues in Speech-Language Pathology

Prerequisite: permission. Functionally-oriented course designed to complement students' concurrent clinical externships in educational and healthcare settings. Issues include, but are not limited to, in-depth discussion and analysis of relevant local, state, and national policies and procedures for ethical and effective evidence-based service delivery; models of collaborative team assessment and treatment applicable to a variety of practice settings; and recognition of potential external influences that may impact treatment objectives and length of intervention. 3(3-0) S

### CSD 792 Independent Study

Prerequisite: permission. Study may be a reading project or a practical application of theories. May be repeated to a maximum of 4 hours. 1-3 D

### CSD 794 Orientation to Clinic Speech Pathology

Prerequisite: permission. Preparation for practicum work in speech pathology. Clinic procedures, observation guidelines, documentation requirements, shadowing of practicing clinicians, development of integration of knowledge and skills in speech pathology. 1(1-0) F,S,Su



## CSD 795 Advanced Clinical Practice

Prerequisite: permission. Training in audiology, speech and language disorders, and education of the deaf and hard of hearing in clinical, hospital, school, and/or other settings. May be repeated. Supplemental course fee. 1-6 F,S,Su

## CSD 796 Supervised Teaching

Prerequisite: permission. The assumption of teaching responsibilities at an approved practicum site under the direction of a University CED certified supervisor and practicum site instructor. Students enrolled in this course may be required to have a physical examination, including a TB test before placement in the practicum setting. 8 D

## CSD 797 Speech-Language Pathology Externship

Prerequisite: permission. Professionally supervised practice in speech-language assessment and intervention in clinical, hospital, school, and/or other settings. Students enrolled in this class may be required to have a TB test, immunizations, and malpractice insurance. May be repeated. 1-4 F,S,Su

## CSD 799 Masters Thesis

Prerequisite: permission. In-depth research culminating in a presentation and defense of the thesis. Syllabi with specific expectations will be developed for each semester. SLP Emphasis: Students register for 2 credit hours per semester for a minimum of 3 semesters; may be repeated. DHH Emphasis: Students register for 3 credit hours per semester for a minimum of 2 semesters; may be repeated. Students must be registered for at least one credit hour until the thesis has been approved. 1-6 F,S,Su

## CSD 800 Research Methods in Audiology

Prerequisite: permission. This course will outline the research process in audiology beginning from proposing a research question to drawing and disseminating conclusions. Special emphasis will be place on conducting clinical research and evaluating published research findings in audiology. 3(3-0) S

## CSD 807 Auditory System: Physiology/Neurophysiology

Prerequisite: permission. This course describes in depth aspects of the peripheral and central auditory system as it pertains to anatomy and physiology. Students learn about the functional development of the human auditory system as well as comparative anatomy. The peripheral anatomy will include external (pinna, canal, and tympanic membrane), middle (ossicular mechanism, eustachian tube, facial nerve) and cochlear structures (microanatomy, ultrastructures, sensory epithelium, cochlear fluids, vascular system). The central anatomy will include the cochlear nerve, neural transmission, afferent and efferent pathways (brainstem and midbrain) and cortical function. 3(3-0) D

## CSD 834 Diagnostic Audiology I

Prerequisite: permission. A comprehensive study of a variety of site of lesion tests. The course will cover acoustic immittance and reflectance measures including tympanometry and acoustic reflex measures for detection of middle ear disorders and site of lesions in the auditory pathway. Other site of lesion tests include threshold and suprathreshold tone decay, loudness recruitment, loudness balance. Short Increment Sensitivity Index, Bekesy tests and brief tone audiometry. Tests for detection of nonorganic hearing loss will also be discussed. 3(3-0) F

## CSD 835 Diagnostic Audiology II

Prerequisite: permission. In the first part of the course, the different types of otoacoustic emissions will be discussed in detail. Students will learn to record, analyze and interpret otoacoustic emissions. They will learn screening and diagnostic applications of otoacoustic emissions in a variety of auditory pathologies. In the second part of the course, research methodology will be applied to demonstrate efficacy in clinical service delivery in all areas of audiologic practice. Outcome measures for various diagnostic test will be discussed. 3



(3-0) F

### CSD 840 Speech Pathology for the Audiologist

Prerequisite: permission. In-depth discussion of normal and disordered speech and language development, with emphasis on hearing loss and its effect on speech and language. Central auditory processing disorders, adult communication disorders, and proper evaluation and referral processes for speech and language also discussed. 3(3-0) D

### CSD 842 Vestibular Assessment and Rehabilitation

Prerequisite: permission. An examination of the physiological aspects of the vestibular system, chemical effects on the vestibular system, medical and chemical treatment methods, balance system assessment, assessment of the efficacy of intervention, and anatomy, neuroanatomy, and physiology of the pertinent sections of the auditory system (peripheral and central) will be covered. 4(4-0) S

### CSD 844 Electrophysiology

Prerequisite: permission. A look at various techniques and theories behind electrodiagnostic testing procedures. Advanced study of auditory evoked responses applied in audiology. Anatomy, neuroanatomy, and physiology of the pertinent sections of the auditory system (peripheral and central) will be covered. Supplemental course fee. 4(4-0) S

### CSD 846 Instrumentation and Calibration

Prerequisite: permission. Detailed investigation into instrumentation and calibration and its importance in the field of Audiology. Emphasis on bioelectrical hazards, physical characteristics and measurement of acoustic, electric, and other non-acoustic stimuli, determination of calibration in relation to accepted standards, and use of various types of instrumentation according to manufacturer's specifications and recommendations. 3(2-2) D

### CSD 848 Cochlear Implants and Other Assistive Listening Devices

Prerequisite: permission. This course provides an investigation into the various types of cochlear implants and an understanding of the anatomical and psychological aspects, including controversies surrounding implantation of children. Emphasis will include intervention and therapy techniques for children and adults with cochlear implants and other alternative listening devices. 3(2-2) D

### CSD 849 Basic Audiometry

Prerequisite: permission. This course describes aspects of basic diagnostic testing in clinical audiology. Students learn about basic diagnostic test procedures including air-conduction and bone-conduction threshold testing, speech audiometric test procedures and clinical masking procedures. 3(3-0) F

### CSD 850 Pediatric Audiology

Prerequisite: permission. Overview of auditory development. Presentation of auditory disorders, audiological assessment, and treatment needs specific to infants and children. Emphasis on parent-child interactions and family dynamics in habilitating hearing-impaired children. Relevant calibration and instrumentation issues. 3(3-0) F

### CSD 852 Advanced Hearing Science

Prerequisite: permission. Acoustics and physical measures involving the properties of sound as well as psychoacoustics and sound perception. 3(3-0) F

### CSD 866 Counseling in Audiology

Prerequisite: permission. Various counseling strategies used in clinical audiology practice will be discussed. Counseling needs of

adults with hearing loss and families of children with hearing loss will be reviewed. 3(3-0) Su

#### CSD 868 Amplification Systems I

Prerequisite: permission. Current concepts in amplification and assistive listening devices. Evaluation, selection, and fitting of prosthetic devices for the hearing impaired. Relevant calibration and instrumentation issues. 3(2-2) S

#### CSD 870 Clinical Audiology II

Prerequisite: permission. Theory and practice of electrophysiological testing for the auditory and vestibular systems. Relevant calibration and instrumentation issues. 4(3-2) S

#### CSD 871 Amplification Systems II

Prerequisite: permission. Coverage of recent developments in remediation of communication disorders related to hearing loss in adults and children. 3(3-0) F

#### CSD 873 Educational Audiology

Prerequisite: permission. This course includes information and strategies students need to work in today's inclusive school environment, functioning as part of a collaborative team, helping develop IFSPs, IEPs and ITPs, supervising audiological screening and conservation programs. It will prepare students to perform the various roles of the educational audiologist, clinician, community liaison service coordinator, supervisor, and advocate. Issues that affect learners with hearing impairment across the lifespan (infant toddlers, elementary and high school students, and college and adult learners) and various regulations related to the delivery of effective educational services (e.g., ADA, IDEA) will be discussed. This course will also include information on the evaluation of, and referral process for, speech and language disorders related to hearing loss. 3(3-0) D

#### CSD 874 Clinical Audiology III

Prerequisite: permission. Discussion of recent advances in audiology and hearing science research which have potential clinical application. 3(3-0) D

#### CSD 875 Medical Audiology

Prerequisite: permission. Detailed analysis of the etiology and assessment of common pathologies of the auditory system. Medical intervention and audiologic test battery interpretation discussed. 3(3-0) Su

#### CSD 876 Hearing Conservation and Calibration

Prerequisite: permission of instructor. This course will prepare the audiologist to meet industrial needs for sound measurement and hearing conservation. Government standards will be reviewed and applied to industrial settings that fall under OSHA guidelines for hearing conservation. This will include the anatomical and physiological effects of noise on humans; federal standards and damage-risk criteria, the susceptibility and predisposing factors related to industrial noise as well as conducting and reporting a noise survey with a hearing conservation plan. The course will also cover calibration of audiometers and the use of ANSI standards. 3(2-2) D

#### CSD 878 Professional Issues and Practice Management

Prerequisite: permission. Investigation into the current professional issues and ethics in the field of audiology, as well as legal aspects of audiology practice management. Emphasis is placed on private and clinical practice. Laws, ethics, current issues, regulations, policies, management practices, and record maintenance will also be covered. 4(4-0) D

#### CSD 880 Grand Rounds in Audiology

Prerequisite: permission. Describes in-depth aspects of audiological evaluation, diagnosis and management of routine and complex

cases. The course will review cases in which behavioral, electrophysiologic, central, and vestibular testing are necessary to allow differential diagnosis. Each case study will involve the progression of the disorder and audiological/medical manifestations that occur during this period. Discussion involving strategies for (re)habilitation, remediation and management of each auditory disorder will be examined. The latter may include amplification, central auditory processing, counseling and tinnitus management. Case presentations will be obtained from audiology, otology, and neurology journals, text and personal cases. In addition, with respect to aural (re) habilitation, presentations will be made on current trends in amplification management regarding manufacturers' products and their applicability to specific cases. 3(3-0) F,S

#### CSD 884 Doctoral Project

Prerequisite: permission. In-depth study in an area of Audiology, culminating in a presentation of an extensive scholarly paper. Must be repeated for a minimum of 6 credit hours. 1-6 F,S,Su

#### CSD 895 Advanced Clinical Practice

Prerequisite: permission. Training in audiology, speech and language disorders, and education of the deaf and hard of hearing in clinical, hospital, school, and/or other settings. May be repeated. Supplemental course fee. 1-6 F,S,Su

#### CSD 921 Sign Language I

Prerequisite: permission. Gain beginner level skill in sign language and finger-spelling through Manually coded English. Develop a general knowledge base including the history of sign language and the spectrum of sign options available. May be taught concurrently with CSD 321. Cannot receive credit for both CSD 321 and CSD 921. Students will be required to complete a project in an area related to their professional course of study. 3(3-0) F

#### CSD 922 Sign Language II

Prerequisite: CSD 921 and permission. Emphasis on the expansion of Manually Coded English sign language skills through the use of conversation and the increased development of vocabulary. May be taught concurrently with CSD 322. Students cannot receive credit for both CSD 322 and CSD 922. Students will be required to complete a project in an area related to their professional course of study. 3(3-0) S

#### CSD 930 Introduction to American Sign Language

Prerequisite: permission. A beginning level course in American Sign Language. Students will gain information about the history and structure of this unique visual/gestural system of communication, its vocabulary and syntax, and practical experience in its use, both expressively and receptively. May be taught concurrently with CSD 330. Students cannot receive credit for both CSD 330 and CSD 930. Students in this course will be required to complete additional assignments compared to those students in CSD 330. 3(3-0) F

#### CSD 945 Central Auditory Processing Disorders

Prerequisite: permission. This course describes various aspects of central auditory processing and disorders. Students learn about the underlying processes of auditory processing in the central nervous system. They are provided with a review of several evaluation and remediation approaches used in the management of individuals with central auditory disorders. 3(3-0) F

#### CSD 946 Genetics and Hearing Loss

Prerequisite: permission. Provides basic understanding of genetic terminology, cell biology (mitosis and meiosis), DNA structure and function, introduction to genetic aspects of hearing loss, mode of inheritance, pedigree chart, syndromic and nonsyndromic hearing loss, molecular aspects to nonsyndromic hearing loss, epidemiology of hearing loss, and genetic screening and diagnosis. Also, issues related to genetic testing, impact on families, bioethics and cultural issues in deaf community, and genetic counseling will be discussed. Course will also cover the current research about human genome and its relation to diagnosis and treatment of hearing

loss. Several case studies and hands-on activities will be presented to incorporate course materials and class discussion. 1(1-0) F

### CSD 972 Advanced Auditory Re/Habilitation

Prerequisite: permission. Detailed investigation into clinical assessment, treatment techniques, and evaluation of auditory re/habilitation. Emphasis on auditory re/habilitation in children and adults with cochlear implants. Also emphasizes use of assistive auditory devices in other members of the Deaf and Hard of Hearing populations. Theories and research into language development in individuals with hearing and those with losses of hearing are explored with implications intervention. Problems and issues related to language development are presented. 3(2-2) D

### CSD 996 Audiology Externship

Prerequisite: permission. Professionally supervised practice in auditory assessment and intervention in clinical, hospital, school, and/or other settings. Students enrolled in this class may be required to have a TB test, immunizations, and malpractice insurance. May be repeated. 1-9 F,S,Su

### CSD 999 Doctoral Thesis

Prerequisite: permission. In-depth research in an area of Audiology, culminating in a presentation and defense of the thesis. Must be repeated for a minimum of 6 credit hours. 1-6 F,S,Su



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## Department of Kinesiology

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Associate Professor: Thomas S. Altena, John H. Downing

Assistant Professor: Melinda Novik

Emeritus Professor: A. Duane Addleman, Thomas H. Burnett, Nancy L. Curry, Perry F. Miller, George E. Simpson, Peggy J. Thomas, Alex D. Trombetta, Tillman D. Williams

### Programs

## Master of Science, Health Promotion and Wellness Management

Sarah McCallister, Department Head

Phone 836-5370;

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### Program Description

The Master of Science in Health Promotion and Wellness Management is a 36-37 hour interdisciplinary program. It is designed to provide preparation for students from diverse backgrounds in health, human services, and business.

The curriculum integrates managerial skills with scientific and clinical knowledge of preventive medicine, behavioral psychology, health care economics, public health, contemporary health issues, and organizational theory. The result is a competency-based, multi-disciplinary academic preparation for professionals dedicated to assuming leadership and managerial positions within the health and wellness industry. Students are prepared for careers as managers and program development specialists/educators of health and wellness programs in hospital or corporate-based wellness settings, health maintenance organizations, governmental agencies, educational institutions, private fitness clubs, sports medicine facilities, and volunteer agencies.

Curricular activities are complemented by research opportunities in the well-equipped exercise science laboratory. Diverse practical experience opportunities are provided in conjunction with the campus wellness initiative directed by the Health Education Coordinator in Taylor Health Center and with the expanding clinical and community facilities in the Springfield metropolitan area.

### Entrance Requirements

1. Completion of a baccalaureate degree from a regionally accredited college or university.
2. Cumulative GPA of 2.80 on a 4.00 scale in undergraduate work.
3. Submission of Graduate Record Examination (GRE) scores from the General Examination.
4. Prerequisite courses: 12 hours. Students entering the program should have an undergraduate course in statistics, exercise physiology, introductory psychology, and business management. A student who does not meet these criteria, but who demonstrates outstanding potential, may be considered on the basis of individual merit and accepted on a probationary status.

### Accelerated Master's Degree Option

Students enrolled in programs housed in the Kinesiology Department may be accepted into the Master of Science in Health Promotion and Wellness Management program after admission requirements for the accelerated master's option are met. Once accepted, up to 12 credit hours of approved 600 and 700-level coursework may be counted toward both the Bachelor of Science/Bachelor of Science in Education and the Master of Science degree programs.

The accelerated option allows majors in the Department of Kinesiology who are interested in health promotion and wellness management to complete the requirements for the Master of Science degree in three semesters and a summer rather than the typical four semesters and a summer. For more information and guidelines, contact the Health Promotion and Wellness Management program director in the Kinesiology Department.

Before enrolling in each course to be counted as both undergraduate and graduate credit, an undergraduate student must be accepted into the accelerated program and complete a Mixed Credit Form. Acceptance into the program and all approvals must be completed prior to the end of the Change of Schedule Period for the course(s). See the Graduate College for further information.

#### Admission Requirements for the Accelerated Master's Option

1. Senior standing and an overall GPA of 3.2 or better.
2. Completion of an undergraduate course in statistics or measurement and evaluation, exercise physiology, biomechanics, introductory psychology, and business management. A student who does not meet these criteria, but who demonstrates outstanding potential, may be considered on the basis of individual merit.

### Degree Requirements (minimum of 36 hours)

1. Required Core - 15 hours

Course Code	Course Title	Credit Hours
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<u><b>HLH 700</b></u>	Research Methods in Health, Physical Education and Recreation	3 hrs
<b>HLH 710</b>	Introduction to Health Promotion and Wellness Management	3 hrs
<u><b>HLH 750</b></u>	Programming Approaches in Wellness/Health Promotion	3 hrs
<u><b>HLH 752</b></u>	Health Risk Identification and Management	3 hrs
<u><b>HLH 760</b></u>	Health Promotion Planning	3 hrs

## 2. Choose from the following electives (9-10 hours)

Course Code	Course Title	Credit Hours
KIN 667	Physical and Leisure Activities for the Aging Adult	3 hrs*
KIN 669	Health Appraisal and Exercise Testing Techniques	4 hrs*
KIN 705	Applied Statistics in Health, Physical Education and Recreation	3 hrs
KIN 737	Curriculum Designs in Physical Education	3 hrs
KIN 759	Contemporary Health Problems	3 hrs
KIN 760	Applied Biomechanics of Human Movement	3 hrs
KIN 762	Applied Exercise Physiology	3 hrs
KIN 797	Graduate Seminar	1-3 hrs
KIN 781	Contemporary Issues in Physical Education	3 hrs
<u><b>MGT 600</b></u>	Administrative, Organizational, and Operations Concepts for Managers	3 hrs
<u><b>PLS 651</b></u>	Administrative Law	3 hrs
<u><b>ECO 604/</b></u> <u><b>HCM 604</b></u>	Health Care Economics OR	
<u><b>COM 736</b></u>	Concepts and Analysis of Communication in Organizations OR	
<u><b>MGT 764</b></u>	Organizational Behavior OR	
<u><b>PSY 718</b></u>	Organizational Psychology	3 hrs

## 3. Internship

**HLH 791** Wellness Internship 1-6 hrs

Supervised work in an approved health promotion/ health care setting. As a culminating experience, the internship is crucial to the Program. Students must complete a minimum of 400-600 clinical hours.

The intern experience (HLH 791) is an integral part of this major and should be planned (in consultation with the advisor) in advance of the semester in which the student desires to register for the experience.

Application deadlines for HLH 791 are as follows: Fall - March 1; Spring - September 1; Summer - January 1. Applications are available from, and are to be returned to, the graduate coordinator.

## 4. Research

KIN <u><b>799</b></u> Thesis OR	6 hrs
KIN <u><b>795</b></u> Research Project	3 hrs
PLUS Completion of 700-level 3 hr course selected with Advisor	3 hrs

## 5. Comprehensive Examination. A written comprehensive examination must be passed by the candidate before a degree will



be granted.

## Master of Science, Administrative Studies: Sports Management Option

The Department of Health, Physical Education and Recreation participates in the Master of Science, Administrative Studies (MSAS) degree. The MSAS is an interdisciplinary program composed of courses from departments and colleges across campus. The program, which includes a significant online component, is administered by a faculty committee and located in the Graduate College.

### ***Sports Management Option:***

The Sports Management Option is a 15 hour option that includes three 3 credit hour courses and one six hour field experience course. KIN 733 covers the research requirement for the MSAS program.

Required Courses (6 hours)

Course Code	Course Title	Credit Hours
KIN <a href="#">739</a>	Principles of Sports Management	3 hrs
KIN <a href="#">780</a>	Legal Aspects in Sports, Physical Education, Recreation and Wellness Programs	3 hrs
KIN <a href="#">733</a>	Current Problems in Sports Administration	3 hrs
KIN <a href="#">798</a>	Field Experience in Sports Management	6 hrs

## Sports Management Certificate

Gerald Masterson, Certificate Advisor

MacDonald Arena, Room 22; Phone 836-5251

[JerryMasterson@missouristate.edu](mailto:JerryMasterson@missouristate.edu)

### **Program Description**

The Sports Management Certificate Program is an 18 hours program, that includes four 3-credit hour courses and one six-hour field experience course. It is designed to provide for preparation for management positions in professional, collegiate, and international sports, as well as, campus and community wellness/sports programs.

### **Admission Requirements**

1. Admission to the Graduate College at Missouri State University.
2. Baccalaureate degree from an accredited college or university.
3. Cumulative GPA of 2.80 on a 4.00 scale in undergraduate work.
4. Combined minimum score on the GRE verbal and quantitative of 1000.

### **Certificate Requirements**

1. Required courses 12 hrs

Course Code	Course Title	Credit Hours
KIN <a href="#">739</a>	Principles of Sports Management	3 hrs

KIN <u>780</u>	Legal Aspects in Sports, Physical Education, Recreation and Wellness Programs	3 hrs
KIN <u>733</u>	Current Problems in Sports Administration	3 hrs
ACC <u>600</u>	Accounting Concepts for Managers	3 hrs

(Note: Students with significant academic experience, such as a major or a minor in accounting, should substitute KIN 600 Seminar in Physical Education)

1. KIN 798 Field Experience 6 hrs

The field experience is the culminating activity for all students in the certificate program. It should be planned (in consultation with the sports management advisor) in advance of the semester in which the student desires to register for the experience. Before the experience can begin, the student must complete the application process and the 12 credit hours required in the certificate program.

2. Requirements for completion of certificate

- a. Completion of required courses.
- b. Completion of the field experience.
- c. Maintain a GPA of 3.00
- d. A written comprehensive examination must be passed before a certificate will be granted.

## Master of Science in Education, Secondary Education - Physical Education Area of Emphasis

Contact Dr. David Oatman and see program requirements for the M.S.Ed., Secondary Education under Interdisciplinary Graduate Programs.

David T. Oatman, Coordinator  
McDonald Arena, Room 211; Phone 836-4850  
[DavidOatman@missouristate.edu](mailto:DavidOatman@missouristate.edu)

### Physical Education Requirements

KIN <u>705</u> Applied Statistics in Health, Physical Education and Recreation	3 hrs
Additional courses numbered 700 or above offered by Kinesiology (excluding KIN 795 or 799)	12 hrs
Total	15 hrs

### Health Courses

HLH 700 Research Methods in Health, Physical Education and Recreation

Nature of research methodology, experimental design and scientific writing. Opportunity to explore research literature and to conduct research. 3(3-0) F

HLH 710 Introduction to Health Promotion and Wellness Management

This is an introductory course in which students will gain a general understanding of the health promotion and wellness management (HPWM) field. The job opportunities, history, mission, terminology, philosophy, ethical principles, organizations, concepts and foundations of HPWM will be explored. 3(3-0) F

HLH 750 Programming Approaches in Wellness/Health Promotion

Organizational and administrative approaches utilized in the conduct of wellness/health promotion programs will be studied. Emphasis will be placed upon the selection, development, promotion, conduct, and evaluation of the various components of wellness/health promotion programs. 3(3-0) S

#### HLH 752 Health Risk Identification and Management

Procedures and instrumentation utilized in the identification and assessment of risk factors associated with cardiovascular and other major life-style generated diseases and conditions will be studied. Emphasis will be placed upon the utilization of risk factor data in the conduct of a wellness/health promotion program. 3(3-0) S

#### HLH 760 Health Promotion Planning

A culminating course in the M.S. in Health Promotion and Wellness Management degree program. This course will focus on the development of health promotion in the workplace: Topics discussed will include effects of health promotion, the compression of morbidity, developing awareness strategies, health assessments, theories of health behavior (self-efficacy, social learning theory, health belief model, theory of planned behavior, stages of change theory), and evaluating existing workplace health promotion programs (physical activity in the workplace, worksite nutrition programs, worksite weight management, tobacco control and cessation, and stress management). The current professional literature related to health promotion will also be reviewed. 3(3-0) S

#### HLH 770 Seminar in Health Promotion and Wellness Management

Review of the professional literature relating to current issues in health promotion and wellness. Topics researched and discussed include health care ethics, diversity, cultural aspects, long-range planning, public relations, legal considerations, and grant-writing. Includes guided development and completion of an extensive research paper. 3(3-0) S

#### HLH 791 Wellness Internship

Prerequisite: permission of Health Internship Coordinator. Supervised field experience in a health promotion or health care setting. Directly involves the student in the application of organizational skills and wellness manager skills. Student must complete a minimum number of clinical hours. May be repeated. 1-6 F

## Physical Education Courses

#### KIN 600 Seminar in Physical Education

Directed reading and special investigation of selected subjects in physical education, health, and safety; research projects under faculty supervision. May be repeated for a maximum of 9 hours of credit. Variable content course. May be taught concurrently with KIN 500. Cannot receive credit for both KIN 600 and KIN 500. 1-3, D

#### KIN 645 Perceptual and Motor Development

Recommended Prerequisite: PSY 360. Perceptual and motor development from prenatal life to adolescence; relationships of growth factors that influence motor abilities; difficulties that may arise when the normal course of development is interrupted. Includes a laboratory and a practicum experience. May be taught concurrently with KIN 545. Cannot receive credit for both KIN 645 and KIN 545. 3(2-2), F,S

#### KIN 667 Physical and Leisure Activities for the Aging Adult

The effects of aging and common degenerative diseases of the aged on physical performance and leisure. Included are units on assessment of physical working capacity, flexibility, body composition, strength maintenance. Also, units on selection of recreational and performance activities commensurate with functioning capacity. May be taught concurrently with KIN 567. Cannot receive credit for both KIN 667 and KIN 567. 3(3-0) F,S

## KIN 669 Health Appraisal and Exercise Testing Techniques

Introduction to appropriate health appraisal and exercise tests for the purpose of exercise programming and prescription. Supplemental course fee. May be taught concurrently with KIN 569. Cannot receive credit for both KIN 669 and KIN 569. 4(3-2) F,S

## KIN 675 Measurement and Evaluation Applied to Physical Education

Use of authentic and traditional assessment techniques in assessing student performance and informing curricular change. Includes basic statistics, use of statistical software packages, evaluation of test validity and bias, and written test construction. May be taught concurrently with KIN 575. Cannot receive credit for both KIN 675 and KIN 575. 3(3-0), F,S

## KIN 682 Motivational Interviewing for Health Professionals

Prerequisite: permission of instructor. This is an advanced level course for students who have had an introduction into health behavior theories and are interested in working in the health field. Course content will include an exploration into the attitudes and motivations of personal health behavior and an in-depth exploration of motivational interviewing principles and applications. May be taught concurrently with KIN 582. Cannot receive credit for both KIN 682 and KIN 582. 3(3-0) D

## KIN 705 Applied Statistics in Health, Physical Education, and Recreation

Prerequisite: HLH 700 or equivalent or permission of instructor. Applications of descriptive and inferential statistics to research problems in Health, Physical Education, and Recreation. 3(3-0), F,S

## KIN 733 Current Problems in Sports Administration

Identification, analysis, and evaluation of current problems, research and trends in sports administration. 3(3-0), F

## KIN 735 Administration of School Physical Education and Athletic Programs

Financial and legal aspects, personnel management, program development, public relations, and evaluation as they apply to physical education and athletics. 3(3-0), D

## KIN 737 Curriculum Designs in Physical Education

A comprehensive inquiry of the principles underlying the curriculum of physical education in grades K-12. An in-depth analysis will be given to the problems in development and evaluation of physical education curriculum. 3(3-0), F,S

## KIN 739 Principles of Sports Management

Introduction to theories and principles of sports management as applied to all segments of the sports industry from high school, collegiate, professional and international sports, to health, fitness and recreational settings. 3(3-0), F

## KIN 755 Fitness as Preventive Medicine

Recommended Prerequisite: KIN 362 or equivalent. Development and implementation of scientifically-based fitness programs as vehicles of preventative medicine. 3(3-0), D

## KIN 759 Contemporary Health Problems

In-depth consideration of relevant pertinent health issues, trends, controversy, and current research in Health Education. 3(3-0), D

## KIN 760 Applied Biomechanics of Human Movement

Recommended Prerequisite: KIN 360 or equivalent. Biomechanical principles applied to the analysis of human motion and

performance. Techniques of cinematography, computerized motion analysis and other methods of analysis will be used. 3(2-2), D

### KIN 762 Applied Exercise Physiology

Recommended Prerequisite: KIN 362 or equivalent. A study of the mechanisms underlying the body's physiological responses and adaptations to exercise and training. Application is made to health-related concerns, environmental stress, exercise practices, and the aging process. 3(2-2), D

### KIN 780 Legal Aspects in Sports, Physical Education, and Wellness Programs

The legal aspects in sports, physical education, recreation and wellness programs as related to personnel, facilities, participants, spectators and contracts. Includes a review of legal concepts, necessary for in-depth study of the law, as it relates to sports, or other programmed activities. 3(3-0), F

### KIN 781 Contemporary Issues in Physical Education

Exploration of basic issues and trends in physical education using a philosophical approach to contemporary American education. Individual problem solving will assist the student in identifying, analyzing and evaluating recent developments and basic issues in physical education and sport. 3(3-0), F,S

### KIN 795 Research Project

Prerequisite: HLH 700 or equivalent; a statistics course; and permission of graduate coordinator. Original research supervised by the departmental staff. Designed to enable students through firsthand experience to understand the various parts of research papers, methods of gathering data, appropriate statistical tests, interpretation of findings and implications for further study. 3(3-0), D

### KIN 797 Graduate Seminar

Selected topics in health, physical education, and recreation. Topics may vary from semester to semester. May be repeated for credit when topic varies. A total of 6 hours may be applied to a degree program. 1-3, D

### KIN 798 Field Experience in Sports Management

Prerequisite: completion of the application process for the field experience and 12 credits in the certificate program. The Field Experience is the culminating experience for all students in the certificate program. The field experience provides students the opportunity to become directly involved in the application of organizational and sport management skills in sport related venues. Possible sites include: professional or club sports teams, university athletic departments, sports sales, sports agencies, professional and university sports facilities. Selection is dependent on the students' background and career expectations. All required courses must be completed in order to be eligible. The field experience can be completed during the fall, spring, or summer and requires at least 400 hours. All field experiences must be approved by the internship coordinator. 6, D

### KIN 799 Thesis

Prerequisite: HLH 700 or equivalent; a statistics course; and permission of graduate coordinator. Independent research and study connected with the preparation of a thesis. May be repeated but no more than 6 hours may be counted toward degree. 1-6, D

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Graduate College  
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[Missouri State](#) > [Graduate College](#) > [Graduate Catalog](#) > [College of Health and Human Services](#) > Department of Nursing

## Department of Nursing

Professional Building, Room 300, Phone: (417) 836-5310, Fax: (417) 836-5484

Email: [Nursing@missouristate.edu](mailto:Nursing@missouristate.edu)

Website: <http://www.missouristate.edu/nursing>

Department Head: Kathryn L. Hope

### Faculty

Professor: Kathryn L. Hope, Rose Utley

Associate Professor: Susan S. Sims-Giddens

Assistant Professor: Susan Berg, Donna S. Gloe

Clinical Assistant Professor: Maria Kenneally, Debra L. Savinske

Instructor: Jan Atwell, Carolyn Graves

Adjunct Faculty: GeorgAnn M. Greissinger, Dan Johnson, Janice Jones, Malinda K. Kendrick, Katrina M. Kovarik-Stevens, Ashley Kubik, John James Lorette, Jr., Angela K. Powers, Gale Roberts, Donna Christine Wilson

Emeritus Faculty: Elizabeth M. Fahey, Caroline A. Helton

### Accreditation

Commission of Collegiate Nursing Education - all MSN and Post Master's Certificate programs.

### Programs

#### Doctorate of Nursing Practice

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## Program Description

The DNP program in the Department of Nursing is designed to prepare advanced practice nurses at the highest clinical level. The DNP program will graduate community leaders who have the knowledge and skills to address the health disparities of vulnerable and rural populations. The program will prepare graduates to function in a variety of community and acute care health settings as primary care providers, leaders, managers, and consultants.

The Post-Master's DNP Certificate Program is a 29 credit hour online program for nurses with previous advanced practice preparation (Nurse Practitioners, Clinical Nurse Specialists, Nurse Midwives and Nurse Anesthetists). The online program can be completed with full-time study in 14 months (or four (4) semesters), or part-time study.

The BSN to DNP program is an 82 credit hour program that will prepare graduates to practice in the family nurse practitioner role. The program will consist of courses in online and on-campus formats. The program will be available to students from Missouri. The program can be completed in three (3) years of full-time study. Part-time study is not an option for the BSN to DNP.

## DNP Program Requirements

Completed applications will be reviewed beginning December 1 for the summer admission and applications will be taken until the class is filled.

The applicant must:

1. Meet all requirements for admission to the Graduate College at Missouri State University, including complete, official transcripts of all college programs and course work.
2. Complete an application to the DNP program.
3. Submit a \$50 nonrefundable application fee to the Department of Nursing. This fee is in addition to the regular MSU Graduate Application Fee.
4. Graduate from an Advanced Practice Nursing program accredited by the Commission on Collegiate Nursing Education (CCNE) or the National League for Nursing Accreditation (NLNAC). (Post Master's only).
5. Graduate from a Bachelor of Science (BSN) program that is accredited by the Commission on Collegiate Nursing Education (CCNE) or the National League for Nursing Accreditation (NLNAC). Graduates from international nursing programs will be considered on an individual basis. (BSN to DNP only).
6. Submit evidence of current certification in an area of Advanced Nursing Practice: nurse practitioner, nurse midwife, nurse anesthetist, or clinical nurse specialist. (Post-Master's only).
7. Complete a minimum of clinical practice experience that equates with one year of full-time experience. (Post-Master's only).
8. Hold a current unencumbered RN license from a state within the United States, and any state in which clinical practicums will occur.
9. Have a cumulative GPA of all previous graduate-level education course work of 3.25 (on a 4.00 scale) or above. Students who have less than a 3.25 cumulative GPA must submit verbal, quantitative, and analytical scores on the Graduate Record Examination General Test (GRE). See current Graduate Catalog Admission section for minimum GRE requirements.
10. Submit evidence of current health insurance.
11. Submit evidence of current certification in Basic Life Support (BLS) for Health Professionals approved by the American Heart Association.
12. Complete all prerequisite courses; healthcare informatics, and a graduate course in statistics with a grade of "C" or higher before the program begins.
13. Meet technical standards of the program in order to successfully undertake the course of study (available by request from the program).

14. Submit evidence of current immunizations or immune status (MMR, Tetanus, Varicella, Hepatitis B series) and a PPD (or chest X-ray or documentation of appropriate follow up for PPD positive individuals).
15. Submit an essay (see application packet online).
16. Submit a current resume or a curriculum vita, including all previous leadership activities or experiences.
17. Three recommendation from healthcare professionals with a master's degree or higher that can address the applicant's potential as a clinician, leader and scholar using the standardized DNP reference form.
18. Be prepared to meet the requirements of an online program.

## Admission Process

For applicants with complete admission packet

1. Applicant's who demonstrate a match between their project goals and the areas of expertise of the faculty will be given priority in the admission process.
2. Competitive applicants will be invited to interview with the DNP Admission Committee. An interview is required to determine the fit between the candidate's goals, and the DNP program and faculty.
3. Applicant's must apply and pay for the state/federal Background Check and receive response that the applicant has not been convicted of any crime or other disqualifications that would prohibit licensure as an advanced practice nurse or completion of clinical experiences in clinical settings.
4. Pay for and complete a urine drug screen without disqualifying offenses.

## Selection Factors

Admission into the Doctorate of Nursing Practice Program is highly selective and competitive, and a limited number of students will be admitted each year. Completion of all admission requirements does not ensure admission to the Program. The DNP Admission Committee will consider the following characteristics of competitive applicants:

- Academic potential to successfully complete the program within the required time frame
- Understanding of and commitment to the role of the advanced practice nurse
- Personal maturity
- Interpersonal communication skills, including written and verbal
- Quality and quantity of health care experiences
- Quality of leadership and service activities
- Capacity for performance of the technical functions and tasks required of the advanced practice nurse.

## Additional Requirements of the Program

Students will be required to initiate and pay for any additional security checks and drug screenings required for placement into agencies for clinical experiences. Some agencies require annual screening and affidavits.

## RETENTION POLICIES

To remain in the DNP program, the student must:

1. Maintain a cumulative GPA of 3.25 with no more than 3 semester hours of graduate work below a grade of "B" (3.00) and no hours of graduate work below a grade of "C". Receive a "pass" in all clinical evaluations.
2. Not repeat more than one course.
3. Complete all requirements for the program by the (a) 5th year after admission into the BSN to DNP program, or (b) 3rd year after admission into the Post-Master's program.
4. Demonstrate acceptable levels of maturity and integrity, as well as behaviors and attitudes normally expected of professional nurses in advanced nursing roles.
5. Demonstrate acceptable professional progression in application of skills and knowledge throughout the program.
6. Maintain current BLS certification, RN licensure, and health insurance throughout the program.
7. The student must notify the Department of Nursing within 5 days in the event of any legal infractions or any actions taken against their nursing license, or any investigation of such incidences.
8. While the student's grades are important, retention in the DNP program is based on a composite picture of the student's ability to perform at a satisfactory level in the academic and clinical component of the educational program.

The Department of Nursing reserves the right to refuse enrollment or program continuation to any student. This refusal will be determined by the judgment of the DNP Admission, Progression, and Graduation (APG) Committee and the Department Head of Nursing and based on the student's ability to successfully complete academic or clinical assignments or function effectively in the roles required in the DNP program. This includes the demonstration of characteristics associated with a professional nurse, including behaviors involving professionalism, ethics and integrity.

## TECHNICAL REQUIREMENTS

The Missouri State University DNP is a hybrid program using a combination of online and on-campus modalities. Didactic online content is delivered using asynchronous and synchronous formats. Applicants to the DNP program must be computer literate and be comfortable using word processing, spreadsheet management, and presentation graphics software. Students are expected to manage files, navigate the internet and access resources, and use a headset, computer camera, scanner and fax machine. Students who have deficiencies in these areas are encouraged to seek training before the start of the program.

The Department of Nursing uses a Blackboard course management system for all courses. Additionally, the Adobe Macromedia software is used for synchronous course offerings and other experiences. Vidoconferencing may be used with Adobe Macromedia or Skype software. Requirements of the program include access to broadband (Cable or DSL) connections, a web camera and microphone headset, and a laptop computer with wireless capabilities to meet the minimal hardware requirements. Our multimedia content is optimized for Internet Explorer and Firefox.

## CLINICAL EXPERIENCES

Clinical experiences for DNP students are individually arranged with preceptors, who have the appropriate educational and experiential qualifications. Students can complete their clinical experiences in a local community if appropriate sites and preceptors are available. However, students may have to travel to a clinical site. All preceptors must be approved by the DNP Program and a contract must be established with the clinical site before any clinical experiences occur.

Post Master's DNP: Some clinical courses require an on-campus, intensive learning experience. The date and times for these on-campus visits will be published prior to the academic year annually.

## Course Requirements: Post Master's DNP (29 hrs)

Summer 1

Course Code	Course Title	Credit Hours
<a href="#"><u>NUR 800</u></a>	DNP Leadership I Concepts for EBP	3 hrs
<a href="#"><u>NUR 802</u></a>	Emerging Science of Advanced Practice	2 hrs

Fall 1

Course Code	Course Title	Credit Hours
<a href="#"><u>NUR 830</u></a>	DNP Leadership II	3 hrs
<a href="#"><u>NUR 820</u></a>	Social Justice and Disparities in Health	3 hrs
<a href="#"><u>NUR 824</u></a>	Health Policy to Improve Disparities in Health and Healthcare	2 hrs
<a href="#"><u>NUR 991</u></a>	Transforming Practice I	2 hrs

Spring 1

Course Code	Course Title	Credit Hours
<a href="#"><u>NUR 860</u></a>	DNP Leadership III	4 hrs
<a href="#"><u>NUR 840</u></a>	Technology for Transforming Nursing and Health Systems	2 hrs
<a href="#"><u>NUR 992</u></a>	Transforming Practice II	4 hrs

Summer 2

Course Code	Course Title	Credit Hours
<a href="#"><u>NUR 993</u></a>	Transforming Practice III	4 hrs

## Course Requirements: BSN to DNP (82 hrs)

Summer Year 1

Course Code	Course Title	Credit Hours
<a href="#"><u>NUR 711</u></a>	Roles and Leadership	2 hrs
<a href="#"><u>NUR 707</u></a>	Advanced Health Assessment/Health Promotion	2 hrs

Fall Year 1

Course Code	Course Title	Credit Hours
<a href="#"><u>NUR 700</u></a>	Epidemiology	3 hrs
<a href="#"><u>NUR 701</u></a>	Nursing Science	3 hrs
<a href="#"><u>NUR 761</u></a>	Advanced Pharmacology	3 hrs

**NUR 734**                      Clinical Reasoning                      5 hrs

## Spring Year 1

Course Code	Course Title	Credit Hours
<b><u>NUR 765</u></b>	Applications of Pathophysiology	2 hrs
<b><u>NUR 772</u></b>	Advanced Nursing Research	3 hrs
<b><u>NUR 788</u></b>	Health Policy/Issues	3 hrs
<b><u>NUR 703</u></b>	Population Health	3 hrs
<b><u>NUR 704</u></b>	Cultural Immersion	1 hr

## Summer Year 2

Course Code	Course Title	Credit Hours
<b><u>NUR 800</u></b>	DNP Leadership I Concepts for EBP	3 hrs
<b><u>NUR 802</u></b>	Emerging Science of Advanced Practice	2 hrs

## Fall Year 2

Course Code	Course Title	Credit Hours
<b><u>NUR 830</u></b>	DNP Leadership II Impacting Disparities in Health and Healthcare	3 hrs
<b><u>NUR 730</u></b>	Family Practice I	6 hrs
<b><u>NUR 820</u></b>	Social Justice and Disparities in Health and Healthcare	3 hrs

## Spring Year 2

Course Code	Course Title	Credit Hours
<b><u>NUR 860</u></b>	DNP Leadership III Transforming Systems	4 hrs
<b><u>NUR 840</u></b>	Technology for Transforming Nursing and Health Systems	2 hrs
<b><u>NUR 750</u></b>	Family Practice II	6 hrs

## Summer Year 3

Course Code	Course Title	Credit Hours
<b><u>NUR 991</u></b>	Transforming Practice I	2 hrs

## Fall Year 3

Course Code	Course Title	Credit Hours
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<a href="#"><u>NUR 770</u></a>	Family Practice III	6 hrs
<a href="#"><u>NUR 992</u></a>	Transforming Practice II	4 hrs
<a href="#"><u>NUR 824</u></a>	Health Policy to Improve Disparities in Health and Healthcare	2 hrs

Spring Year 3

Course Code	Course Title	Credit Hours
<a href="#"><u>NUR 790</u></a>	Advanced Practice Practicum	5 hrs
<a href="#"><u>NUR 993</u></a>	Transforming Practice III	4 hrs

## Master of Science in Nursing

Susan Berg, Family Nurse Practitioner Program Director  
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[Susanberg@missouristate.edu](mailto:Susanberg@missouristate.edu)

Susan Sims-Giddens, Nurse Educator Program Director  
Professional Building, Room 305, Phone 836-5398  
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### Program Description

The Department of Nursing offers a Master of Science in Nursing program with a specialization in the following roles: nurse educator or family nurse practitioner. The Nurse Educator is prepared to teach in a variety of academic and continuing education settings to diverse learners. The Family Nurse Practitioner is prepared to assess, diagnose, treat, educate, and follow patients through the lifespan as a health care provider.

The Family Nurse Practitioner program is transitioning to the DNP, and admitted its last class in 2012. No more applications are being taken.

### Admission Process

Admission to the graduate nursing specializations is a two step process.

1. The applicant first applies to the Graduate College as a MSN Major. See admission requirements below.
2. Once accepted into the MSN program, an application to the specialization is submitted to the Nursing Department. See Nurse Educator and Family Nurse Practitioner specialization admission criteria below.
3. Students may take up to 9 credit hours of course work towards their specialization before full admission to the specialization. Students may take:
  1. [NUR 635](#) Healthcare Informatics
  2. [NUR 640](#) Advanced Human Pathophysiology
  3. [NUR 700](#) Epidemiology
  4. [NUR 703](#) Population Health: A Local to Global Perspective
  5. [NUR 711](#) Advanced Roles and Leadership in Nursing
  6. [NUR 765](#) Applications of Advanced Pathophysiology

## 7. PSY 627 Advanced Psychological Statistical Methods

Because of the limited resources, admission to the MSN program and the specializations are competitive and selective. Admission to the MSN program does not guarantee admission to the specialization.

### Additional Requirements

#### Admission to the MSN Program

1. Acceptance into the Graduate College at Missouri State University.
2. Submit an application to the MSN Program.
3. A cumulative GPA of 3.00 on a 4.00 scale in the last 60 hours of college course work attempted.
4. If the student's cumulative GPA is less than 3.00 on a 4.00 scale, submission of Graduate Record Examination (GRE) scores are required. See the Graduate College Admission section for current guidelines.
5. Completion of a baccalaureate degree with a major in nursing from a program accredited by the Commission on Collegiate Nursing Education (CCNE) or the National League for Nursing Accrediting Commission (NLNAC) accreditation agencies.
6. Successful completion with a grade of "C" or higher in undergraduate statistics, nursing research, and health assessment courses. Students who don't have these courses must take them prior to submitting an application.
7. Licensure as a registered nurse (RN) without disqualification and eligible for licensure in Missouri.
8. Applicants who: (a) have a bachelor's degree in nursing from a non-accredited program, or (b) have a bachelor's degree in nursing from a foreign country, will be considered on an individual basis.
9. Applicants who are RNs and have a non-nursing degree or a degree without upper division nursing courses will be evaluated on an individual basis prior to applying to the MSN program.

#### Admission to the MSN Specializations

##### Evidence of:

1. Admission to the MSN program.
2. A one-page essay that addresses the applicant's professional career goals and how the MSN program will help accomplish these goals.
3. Current immunization (MMR, Tetanus, Varicella, complete Hepatitis B series) and a PPD (or evidence of appropriate medical follow-up for PPD positive individuals).
4. Current health insurance and nursing liability insurance for nurse educators or FNP student liability insurance for family nurse practitioner applicants.
5. Successful completion of prerequisites with a grade of "C-" or higher to include a graduate level or multivariate course in statistics, a course in nursing or healthcare informatics, and for family nurse practitioner students only, advanced human pathophysiology.
6. Current infant, child and adult CPR certification.
7. Drug screening test and a criminal record check\* provided by the Department of Nursing and receive response that the applicant has not been convicted of any crime pursuant to Section 660.317 RSMO or other disqualifications that would prohibit licensure as a registered nurse.

\*Students who fail these checks or procedures will be subject to further review by the Department of Nursing Graduate Admission, Promotion and Graduation Committee. This may result in dismissal from the MSNA program and specialization.



Students with complete application materials for full admission will be reviewed by a departmental selection committee. Selection of students for the MSN program is on a competitive basis.

#### A. Nurse Educator Specialization

Students accepted into the MSN Program and with a completed application to the Nurse Educator specialization will be considered for admission. Acceptance into the Nurse Educator specialization is ongoing and applications will be taken until the class is filled. A formal interview is required.

#### B. Family Nurse Practitioner Specialization

Students accepted into the MSN Program and with a completed application to the Family Nurse Practitioner specialization will be reviewed beginning February 1 for the summer admission of the same year, and will continue until the class is filled. Because of resource constraints, only a limited number of students will be admitted to the Family Nurse Practitioner (FNP) specialization.

### Selection Factors

Admission into the Family Nurse Practitioner Specialization is highly competitive. A limited number of students will be selected to enrolling the program each February. While applicants must complete all prerequisite requirements to be considered for a position in the class, completion of all admission requirements does not assure acceptance into the program. In making class selections, the admission committee will consider the following characteristics of competitive applicants:

Academic potential to successfully complete the program

- understanding and commitment to the role of the Family Nurse Practitioner
- personal maturity
- motivation
- interpersonal skills
- quality and duration of health care experience
- capacity for performance of the technical functions, and
- tasks required of the Family Nurse Practitioner

### Additional Requirements of the Program

Students will be required to initiate and pay for any additional security checks and drug screenings required for clinical agencies.

Probational Admission to the Program

1. Probational admission may be granted to the applicant with a GPA below 3.00, or academic deficiencies.
2. During the probationary period, the student shall receive no course grade lower than a "B-" for the first nine hours of graduate course work attempted.
3. Students on probationary status will be evaluated each semester by the Nursing Admission, Promotion, and Graduation Committee (APG), and a decision will be made on the student's status and a letter will be sent to the student regarding dismissal or continuation in the program.

### Retention Requirements

After admission into the MSN program and continuing through full admission into the specializations, the students must achieve the following for retention in the program:

1. Maintain a GPA of 3.00, with no more than 3 semester hours of graduate work below a grade of “B-”, and no hours of graduate work below a grade of “C”. Receive a “pass” in all clinical evaluations.
2. No more than one course may be repeated.
3. Nurse Educator students must complete all requirements for the degree by their 5th academic year after admission into the MSN specialization.
4. FNP students must complete all requirements for the program by the 4th year after admission into the FNP specialization.
5. Demonstrate acceptable levels of maturity and integrity, as well as behaviors and attitudes normally expected of professional nurses in advanced nursing roles.
6. Demonstrate acceptable professional progression in application of skills and knowledge in the area of specialization.

### Degree Requirements (Minimum of 34 or 52 hours)

Academic Advisor. After admission to the graduate program, the student will be assigned an academic advisor who will supervise the student's graduate program and chair the candidate's graduate committee.

### Core Courses (Required for all options)

Course Code	Course Title	Credit Hours
<a href="#"><u>NUR 701</u></a>	Nursing Science	3 hrs
<a href="#"><u>NUR 707</u></a>	Advanced Health Assessment and Health Promotion Throughout the Lifespan	2 hrs
<a href="#"><u>NUR 772</u></a>	Advanced Research Methods in Nursing	3 hrs
<a href="#"><u>NUR 788</u></a>	Health Policies and Issues	3 hrs
<a href="#"><u>NUR 797</u></a>	Non-thesis Project OR	3 hrs
<a href="#"><u>NUR 799</u></a>	Thesis	6 hrs
	Total	14 or 17 hrs

### Nurse Educator Option

Course Code	Course Title	Credit Hours
	Core Course Requirements	14 or 17 hrs
<a href="#"><u>NUR 700</u></a>	Epidemiology	3 hrs
<a href="#"><u>NUR 703</u></a>	Population Health: A Local to Global Perspective	3 hrs
<a href="#"><u>NUR 780</u></a>	Teaching/Learning for Health Care Education	3 hrs
<a href="#"><u>NUR 781</u></a>	Nursing Education Practicum	2 hrs
<a href="#"><u>NUR 782</u></a>	Curriculum Design and Program Development	3 hrs
<a href="#"><u>NUR 783</u></a>	Nursing Education Practicum II	2 hrs
<a href="#"><u>NUR 784</u></a>	Technology in Health Care Education	2 hrs
<a href="#"><u>NUR 786</u></a>	Issues in Healthcare Education	2 hrs
	Total	34 or 37 hrs

Students should contact the Department of Nursing for information on optional clinical focus requirements.

### Family Nurse Practitioner

Course Code	Course Title	Credit Hours
	Core Course Requirements	14 or 17 hrs

<a href="#"><u>NUR 700</u></a>	Epidemiology	3 hrs
<a href="#"><u>NUR 711</u></a>	Advanced Roles and Leadership in Nursing	2 hrs
<a href="#"><u>NUR 715</u></a>	Primary Care of the Adult	6 hrs
<a href="#"><u>NUR 725</u></a>	Primary Care of Women	4 hrs
<a href="#"><u>NUR 728</u></a>	Primary Care of Children and Adolescent	4 hrs
<a href="#"><u>NUR 703</u></a>	Population Health: A Local to Global Perspective	3 hrs
<a href="#"><u>NUR 704</u></a>	Population Health Practicum	1 hr
<a href="#"><u>NUR 734</u></a>	Advanced Physical Assessment and Clinical Reasoning	5 hrs
<a href="#"><u>NUR 761</u></a>	Advanced Pharmacotherapeutics	3 hrs
<a href="#"><u>NUR 765</u></a>	Applications of Advanced Pathophysiology	2 hrs
<a href="#"><u>NUR 790</u></a>	Family Nurse Practitioner Advanced Practicum	5 hrs
	Total	52 or 55 hrs

Research Requirement. Completion of a thesis or a non-thesis approved by the advisor or Thesis committee.

*Non-thesis Project Option.* Three credit hours in [NUR 797](#) Non-thesis Project will count toward a degree. A formal oral presentation of the project is required. The seminar paper must be approved by the student's Advisor and the Dean of the Graduate College before the degree is granted.

*Thesis Option.* Six credit hours in [NUR 799](#) Thesis will count toward the degree. A formal oral presentation and defense of the thesis is required. The thesis must be approved by the student's Advisory Committee and the Dean of the Graduate College before the degree is granted.

Research Experience. (Maximum of 6 hours) NUR 798 Research (1-6 hrs) will not count toward the degree requirements.

Comprehensive Examination. A comprehensive examination administered during the student's final semester of course work must be passed by the candidate before a degree will be granted.

## Accelerated RN to Masters in Nursing Option for Nurse Educator

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### Entrance Requirements

Students must apply to the Accelerated RN to MSN Option when they first apply for admission to the BSN completion program and prior to enrolling in nursing or supporting courses required in the BSN. Students may not enter the RN-MSN option after they begin taking courses for the BSN completion program. After successful completion of BSN requirements, all students in this Nurse Educator option will receive the BSN and may be granted full admission to the Graduate College.

Admission requirements include:

1. Junior standing;
2. Licensure as a registered nurse (RN) in good standing and eligible for licensure in Missouri;
3. Meet all admission requirements for the BSN completion program;
4. A pre-admission interview;
5. Submission of Graduate Record Examination (GRE) test scores are required.
6. 2 letters of recommendation (faculty or employer preferred);
7. A written statement of goals;

8. The equivalent of at least one (1) year of full-time experience in direct patient care as a registered nurse;
9. An overall GPA of 3.25 or higher;
10. Current American Heart Association BLS for Healthcare Providers certification. No online courses are accepted.

**Additional Requirements of the Program**

1. Students will be required to initiate and pay for any security checks and drug screenings required for clinical agencies.
2. Apply for criminal record check and receive response that the applicant has not been convicted of any crime pursuant to Section 660.317 RSMO or other disqualifications that would prohibit licensure as a registered nurse.
3. Students who fail these checks or procedures will be subject to further review by a Department of Nursing Graduate Faculty Committee. This may result in dismissal from the RN-MSN program.

**Retention and Progression**

In order to remain in the accelerated master’s program and progress to the MSN program, students must:

1. Maintain an overall GPA of 3.25 or higher;
2. Earn a grade of “B” or higher in all undergraduate nursing courses attempted;
3. Earn a grade of “B” or higher in all graduate courses attempted.

Students not meeting the criteria for progression in the RN-MSN, Nurse Educator option, may complete the requirements for the BSN degree, but will be removed from the accelerated option. In the final year of the BSN program, the student must make application to the nurse educator option.

**Credit Course Options**

The accelerated RN to master’s option allows several courses to be taken to meet undergraduate (RN) requirements and pre-requisites to the graduate program.

Course Code	Course Title	Credit Hours
	Graduate Statistics (600-level or higher)	3 hrs
<u>NUR 515</u>	Healthcare Informatics	3 hrs

Before enrolling in a course to be counted toward both undergraduate and graduate credit and to count the course toward the masters degree, an undergraduate student must be accepted into the accelerated program and receive prior approval from the graduate advisor, Department Head of Nursing, and the Dean of the Graduate College. Acceptance into the program and all approvals must be completed prior to the end of the Change of Schedule Period for the semester.

**Post-Master's Family Nurse Practitioner Certificate Program**

The Post-master’s FNP Certificate Program is a series of courses totaling a minimum of 37 credit hours and 672 clinical hours. Completion of the certificate program will prepare students to take the national family nurse practitioner certification exam(s).

Due to the transition to the DNP, the Post-Master's FNP Certificate admitted its last class in 2012. No more applications are being accepted.

**Admission Requirements**

1. Admission to the Graduate College at Missouri State University.
2. Master’s Degree in Nursing from an accredited nursing graduate program, that includes, at a minimum, graduate courses in

nursing theory and research.

3. Graduate GPA of 3.00 or higher.
4. Licensure as a registered nurse (RN) in good standing, and eligible for licensure in the State of Missouri.
5. Evidence of current liability insurance as an advanced practice nursing student.
6. Evidence of current health insurance.
7. Evidence of immunization or vaccination for vaccine-preventable diseases.
8. Provide documentation of negative tuberculosis status or evidence of appropriate follow-up.
9. A graduate course in advanced pharmacology taken within 3 years. Students who do not have a graduate course in advanced pharmacology may take NUR 761 Advanced Pharmacology in their first semester of the certificate program to satisfy this requirement.
10. A course in pathophysiology.
11. A graduate course that covers content in health policy and issues with a grade of "B" or higher. Students who do not meet this requirement will be required to enroll in NUR 788, Health Policy/Issues.
12. Interview with a departmental selection committee.
13. Current infant, child and adult CPR certification.
14. Submit drug screening test and a criminal record check\* and receive response that the applicant has not been convicted of any crime pursuant to Section 660.317 RSMO or other disqualifications that would prohibit licensure as a registered nurse.

\* Students who fail these checks or procedures will be subject to further review by the Department of Nursing Graduate Admission, Promotion and Graduation. This may result in dismissal from the MSN program.

Because of resource constraints, only a limited number of students will be admitted to the Post-master's Family Nurse Practitioner Certificate Program. Complete applications are reviewed beginning February 1 of each year for admission the following summer semester. Admission is on a space available basis.

## Selection Factors

Admission into the Family Nurse Practitioner Specialization is highly competitive. A limited number of students will be selected to enrolling the program each February. While applicants must complete all prerequisite requirements to be considered for a position in the class, completion of all admission requirements does not assure acceptance into the program. In making class selections, the admission committee will consider the following characteristics of competitive applicants:

Academic potential to successfully complete the program

- - understanding and commitment to the role of the Family Nurse Practitioner
  - personal maturity
  - motivation
  - interpersonal skills
  - quality and duration of health care experience
  - capacity for performance of the technical functions, and
  - tasks required of the Family Nurse Practitioner

## Additional Requirements of the Program

Students will be required to initiate and pay for any additional security checks and drug screenings required for clinical agencies.

## Required Courses (37 hrs)

Course Code	Course Title	Credit Hours
<a href="#"><u>NUR 700</u></a>	Epidemiology	3 hrs
<a href="#"><u>NUR 707</u></a>	Advanced Health Assessment and Health Promotion Throughout the Lifespan*	2 hrs
<a href="#"><u>NUR 711</u></a>	Advanced Roles and Leadership in Nursing	2 hrs
<a href="#"><u>NUR 715</u></a>	Primary Care of the Adult	6 hrs
<a href="#"><u>NUR 725</u></a>	Primary Care of Women	4 hrs
<a href="#"><u>NUR 728</u></a>	Primary Care of Children and Adolescents	4 hrs
<a href="#"><u>NUR 703</u></a>	Population Health: A Local to Global Perspective	3 hrs
<a href="#"><u>NUR 704</u></a>	Population Health Practicum	1 hr
<a href="#"><u>NUR 734</u></a>	Advanced Physical Assessment and Clinical Reasoning	5 hrs
<a href="#"><u>NUR 765</u></a>	Applications of Advanced Pathophysiology	2 hrs
<a href="#"><u>NUR 790</u></a>	Family Nurse Practitioner Advanced Practicum	5 hrs

\*this course may be transferred in if taken within 3 years.

## Retention Requirements

After admission into the Post-Master's Family Nurse Practitioner Certificate Program, the students must achieve the following for retention in the program:

1. Maintain a GPA of 3.00, with no more than 3 semester hours of graduate work below a grade of "B", and no hours of graduate work below a grade of "C". Receive a "pass" in all clinical evaluations.
2. No more than one course may be repeated.
3. Complete all requirements within two years after admission into the FNP option.
4. Demonstrate acceptable levels of maturity and integrity, as well as behaviors and attitudes normally expected of professional nurses in advanced nursing roles.
5. Demonstrate acceptable professional progression in application of skills and knowledge in the area of option.
6. Receive satisfactory final clinical evaluations.
7. Maintain current infant, child, and adult CPR certification, immunizations, negative tuberculosis status or evidence of appropriate follow-up, and nursing liability insurance.
8. Students must maintain an active RN license, in good standing, in the state or states in which the student does clinical or practicum experiences.

## Post-Master's Nurse Educator Certificate Program

In addition to the Master of Science in Nursing degree described previously, the Department offers a Post-master's Nurse Educator Certificate Program for nurses who have a Master's Degree in Nursing in another specialty. The Certificate Program consists of five courses, totaling a minimum of 12 credit hours and 192 clinical hours that can be completed in 2 semesters.

## Admission Requirements

1. Admission to the Graduate College at Missouri State University.
2. Master's Degree in Nursing from an accredited nursing graduate program, that includes, at a minimum, graduate courses in nursing theory and research.
3. Completion of a graduate clinical course with a grade of "B" or higher. Students with no graduate clinical courses may satisfy this requirement by enrolling in NUR 620 and NUR 621 during their Certificate Program.
4. Completion of a graduate health assessment course with a grade of "B" or higher. Students with no graduate health assessment course may satisfy this requirement by enrolling in NUR 707.
5. Graduate GPA of 3.00 or higher.
6. Licensure as a registered nurse (RN) in good standing, and eligible for licensure in the State of Missouri.
7. Evidence of current liability insurance.
8. Evidence of current health insurance.
9. Admission interview
10. Evidence of immunization or vaccination for vaccine-preventable diseases.
11. Provide documentation of negative tuberculosis status or evidence of appropriate follow-up.
12. Current infant, child and adult CPR certification.
13. Submit drug screening test and a criminal record check\* and receive response that the applicant has not been convicted of any crime pursuant to Section 660.317 RSMO or other disqualifications that would prohibit licensure as a registered nurse.

\* Students who fail these checks or procedures will be subject to further review by the Department of Nursing Graduate Admission, Promotion and Graduation. This may result in dismissal from the MSN program.

Because of course constraints, only a limited number of students will be admitted to the Post-master's Nurse Educator Certificate Program. Complete applications are reviewed on an ongoing basis. Admission is on a space available basis. Students may pursue either part-time or full-time study; however, all course work in the Post-Master's Nurse Educator Certificate Program must be completed within 5 years.

**Additional Requirements of the Program**

Students will be required to initiate and pay for any security checks and drug screenings required for clinical agencies.

Required Courses (12 hours)

Course Code	Course Title	Credit Hours
<a href="#">NUR 780</a>	Teaching/Learning for Health Care Educators	3 hrs
<a href="#">NUR 781</a>	Nursing Education Practicum	2 hrs
<a href="#">NUR 782</a>	Curriculum Design and Program Development	3 hrs
<a href="#">NUR 783</a>	Nursing Education Practicum II	2 hrs
<a href="#">NUR 786</a>	Issues in Healthcare Education	2 hrs

**Retention Requirements**

After admission into the Post-Master's Family Nurse Educator Certificate Program, the students must achieve the following for retention in the program:

1. Maintain a GPA of 3.00, with no more than 3 semester hours of graduate work below a grade of "B", and no hours of graduate work below a grade of "C". Receive a "pass" in all clinical evaluations.



2. No more than one course may be repeated.
3. Complete all requirements within five years after admission into the nurse educator option.
4. Demonstrate acceptable levels of maturity and integrity, as well as behaviors and attitudes normally expected of professional nurses in advanced nursing roles.
5. Demonstrate acceptable professional progression in application of skills and knowledge in the area of option.
6. Receive satisfactory final clinical evaluations.
7. Maintain current infant, child, and adult CPR certification, immunizations, negative tuberculosis status or evidence of appropriate follow-up, and nursing liability insurance.
8. Students must maintain an active RN license, in good standing, in the state or states in which the student does clinical or practicum experiences.

## Healthcare Management Courses

### HCM 604 Health Care Economics

Recommended Prerequisite: ECO 165 or AGB 144. A basic study of the major economic issues facing the health care industry. Emphasis will be placed on the major elements of economic theory from a micro-economic perspective and how these theories are applied in the area of health care. Identical with ECO 604. May not receive credit for both HCM 604 and ECO 604. May be taught concurrently with HCM 504. Cannot receive credit for both HCM 504 and HCM 604. 3(3-0), F

## Nursing Courses

### NUR 631 Gerontological Health Care

This course will address health issues of older adults, including the normal biological and psychosocial aging process, common health problems, and access to and use of health services. It includes international models of aging and geriatric care. The focus is on healthy aging and adaptation to chronic health conditions. This course has a community experience component. May be taught concurrently with NUR 501. Cannot receive credit for both NUR 501 and NUR 631. 3(3-0) F,S

### NUR 632 Rural Health

This course offers a study of health care delivery in rural communities. It includes theoretical foundations, cultural considerations, and specific characteristics of rural environments and people. Local and international perspectives will be explored. This course has a community experience component. Identical with SWK 602. Cannot receive credit for both NUR 632 and SWK 602. May be taught concurrently with NUR 502. Cannot receive credit for both NUR 502 and NUS 632. 3(3-0) F,S

### NUR 633 Transcultural Healthcare

Prerequisite: permission of instructor. Exploration of health beliefs, values, and practices of other cultures. This is a short-term study away course. May be taught concurrently with NUR 503. Cannot receive credit for both NUR 503 and NUR 633. 3(3-0) S

### NUR 635 Healthcare Informatics

Integration of health, computer and information sciences in managing information to support healthcare and research. Development of skill in managing information and using information systems relevant to health care. Cannot receive credit for both NUR 515 and NUR 635. 3(3-0) S,Su

### NUR 640 Advanced Human Pathophysiology

Prerequisite: admission to the Family Nurse Practitioner or Nurse Educator specialization or instructor permission. Exploration of

pathophysiology with focus on health care problems relevant to nursing. Cannot receive credit for both NUR 565 and NUR 640. 3(3-0) F,S

#### NUR 695 Independent Study in Nursing

Prerequisite: permission of instructor. Special topics for individual students may be offered as specific topics of interest or as needs arise which are not covered by courses or content in the program. May be repeated for credit for a maximum of 6 credit hours as topics change. May be taught concurrently with NUR 596. Cannot receive credit for both NUR 596 and NUR 695. 1-6, F,S,Su

#### NUR 696 Special Topics in Nursing

Prerequisite: permission of instructor. Special topics for groups of students may be offered as specific topics of interest or as needs arise which are not covered by courses or content in the program. May be repeated for credit for a maximum of 6 credit hours as topics change. May be taught concurrently with NUR 597. Cannot receive credit for both NUR 597 and NUR 696. 1-3(1-3) D

#### NUR 700 Epidemiology

Prerequisite: admission to the graduate programs in Nursing. This course is an introduction to the epidemiological methods and procedures utilized in the study of the origin, distribution, and control of disease. It will include the study of infectious and non-infectious disease etiology, including vector control, host defenses and resistance, and investigation of disease outbreaks. Students will learn to use basic epidemiological concepts and methods for program planning, evaluation, and research. Basic statistical measures used in the analysis of clinical and epidemiological evaluations, including measures of disease frequency and measures of absolute and relative effects, will be covered. Identical with PBH 720. Cannot receive credit for both NUR 700 and PBH 720. 3(3-0) F,S

#### NUR 701 Nursing Science

Prerequisite: admission to the Family Nurse Practitioner or Nurse Educator specialization or instructor permission. This course is designed to address how nursing science has evolved and the state of the art of nursing science. Emphasis will be placed on analysis and critique of existing nursing models and theories. 3(3-0) F

#### NUR 703 Population Health: A Local to Global Perspective

Prerequisite: admission to the Family Nurse Practitioner or Nurse Educator specialization or instructor permission. Fosters development of advanced knowledge of health concepts from a local, state, national, and global perspective. The phenomena of cultural competence, health disparities, and vulnerable/underserved populations will be explored. The course is a pre/corequisite for NUR 704, a cultural immersion course required for family nurse practitioner students. 3(3-0) F

#### NUR 704 Population Health Practicum

Prerequisite: admission to the Family Nurse Practitioner specialization. This course is a clinical component of NUR 703. The clinical experience will include 48 hours of immersion into a vulnerable, undeserved or culturally diverse population. 1(0-3) F,S,Su

#### NUR 707 Advanced Health Assessment and Health Promotion Throughout the Lifespan

Prerequisite: admission to the graduate programs in Nursing. Exploration of advanced health assessment and health promotion strategies for individuals, families, and communities. Includes consideration of diverse populations, cultural competence for providers, exploration of the meanings of health and illness, the use of complementary and alternative therapies, and the impact of spirituality. 2(2-0) Su

#### NUR 711 Advanced Roles and Leadership in Nursing

Prerequisite: admission to the graduate programs in Nursing. Examination of advanced nursing roles with emphasis on role theory, leadership, and advanced competencies. 2(2-0) Su

## NUR 715 Primary Care of the Adult

Prerequisite: admission to the Family Nurse Practitioner specialization. Emphasis on primary, secondary and tertiary prevention as well as on diagnosis and management of health problems. Includes clinical experiences of not less than 96 hours. Supplemental course fee. 6(4-6) S

## NUR 725 Primary Care of Women

Prerequisite: admission to the Family Nurse Practitioner specialization. Development of the family nurse practitioner's knowledge and skills with emphasis on women's health. Includes clinical experiences of not less than 96 hours. Supplemental course fee. 4(2-6, F

## NUR 728 Primary Care of Children and Adolescents

Prerequisite: admission to the Family Nurse Practitioner specialization. Content and practicum in primary care of children and adolescents. Includes clinical experiences of not less than 96 hours. Supplemental course fee. 4(2-6) Su

## NUR 730 Family Practice I

Prerequisite: admission to the BSN-DNP Program. Emphasis on evidence-based clinical practice to promote health and prevent chronic disease. Didactic and clinical experiences include assessment, diagnosis and management of acute health problems in the geriatric, adult and pediatric population. Includes clinical experiences of not less than 96 hours. 6(4-6) F

## NUR 734 Advanced Physical Assessment and Clinical Reasoning

Prerequisite: admission to the Family Nurse Practitioner specialization. Advanced critical thinking, communication and diagnostic skills needed to obtain comprehensive and focused history and physical exams, analyze assessment data, generate differential diagnoses, evaluate and utilize screening and diagnostic modalities appropriately. An evidence-based practice framework will be utilized. Supplemental course fee. 5(3-6) F

## NUR 750 Family Practice II

Prerequisite: admission to the BSN-DNP Program. Emphasis on evidence-based clinical practice to promote health and prevent chronic disease. Didactic and clinical experiences include assessment, diagnosis and management of chronic health problems in the geriatric, adult and pediatric population. Includes clinical experiences of not less than 96 hours. 6(4-6) S

## NUR 761 Advanced Pharmacotherapeutics

Prerequisite: admission to the Family Nurse Practitioner specialization. An in-depth analysis of pharmacotherapeutics and clinical pharmacotherapeutics for nurses in advances practice including regulatory consideration in drug management. Identical to PAS 781. Cannot receive credit for both NUR 761 and PAS 781. 3(3-0) F

## NUR 765 Applications of Advanced Pathophysiology

Prerequisite: admission to the graduate programs in Nursing. Clinical application of advanced pathophysiology for advanced nursing roles. 2(1-2) S

## NUR 770 Family Practice III

Prerequisite: admission to the BSN-DNP Program. This course covers special clinical topics in nurse practitioner practice including, but not exclusive to procedures, emergencies/trauma, wilderness medicine, pain management, and generic disorders. Includes clinical experiences of not less than 96 hours. 6(4-6) F

## NUR 772 Advanced Research Methods in Nursing

**Prerequisite:** admission to the Family Nurse Practitioner or Nurse Educator specialization or instructor permission. Critical analysis of the researcher role, the research process, and research ethics within a nursing framework. Application of learned principles will result in the development of the research proposal. 3(3-0) S

#### NUR 780 Teaching/Learning for Health Care Educators

**Prerequisite:** admission to the Nurse Educator specialization. Designed to examine works of major learning theorists and investigate research related to teaching methods and learning. Identification of teaching/learning strategies used in health care education and practice. 3(3-0) F,S

#### NUR 781 Nursing Education Practicum

**Prerequisite:** admission to the Nurse Educator specialization. Clinical experience in a nurse educator role in a basic education program. Application of educational theories and principles in a clinical teaching setting. Includes clinical experiences of not less than 96 hours. 2(0-6) F,S

#### NUR 782 Curriculum Design and Program Development

**Prerequisite:** admission to the Nurse Educator specialization. Basic components and processes of curriculum development. Various perspectives of curriculum design will be discussed. Curriculums for formal educational programs, staff development, and continuing education will be compared. 3(3-0) F,S

#### NUR 783 Nursing Education Practicum II

**Prerequisite:** admission to the Nurse Educator specialization. Clinical experience in a nurse educator role in a healthcare or community setting with emphasis on application of educational theories and principles. Includes clinical experiences of not less than 96 hours. 2(0-6) F,S

#### NUR 784 Technology in Health Care Education

**Prerequisite:** permission. This course explores various technology-based health education resources, such as blogs, wikis, YouTube/SchoolTube, Podcasts, Webinars, and social networking tools utilized to support the teaching and learning process. Strategies to assess learners, to develop learner evaluation plans, and to measure learning outcomes will be discussed. 2(2-0) F

#### NUR 786 Issues in Healthcare Education

**Prerequisite:** admission to the Nurse Educator specialization. Exploration of current issues in academic and healthcare education. Issues occurring in the university, community college, acute care, and community education settings will be included. 2(2-0) D

#### NUR 788 Health Policies and Issues

**Prerequisite:** admission to the Family Nurse Practitioner or Nurse Educator specialization or instructor permission. Exploration of current issues in health care, such as access to health care, reimbursement, health care reform, case management, and health policy development. Health care trends related to special populations and ethical issues will be emphasized. 3(3-0) F,S

#### NUR 790 Family Nurse Practitioner Advanced Practicum

**Prerequisite:** admission to the Family Nurse Practitioner specialization. Development of the role of a family nurse practitioner in a supervised setting. Included clinical experiences of not less than 240 hours. Supplemental course fee. 5(0-15) F,S,Su

#### NUR 797 Non-thesis Project

**Prerequisite:** admission to the Family Nurse Practitioner or Nurse Educator specialization. Active participation in the on-going research

and/or nursing evaluation activities of nursing faculty. Culminates in a presentation of an extensive scholarly paper. Must be repeated for a minimum of 3 hours. 1-3 F,S,Su

#### NUR 798 Research

Prerequisite: permission of research advisor. Application of the research process in the supervised study of a selected problem. May be repeated for a maximum of 6 hours. 1-6 F,S

#### NUR 799 Thesis

Prerequisite: admission to the Family Nurse Practitioner or Nurse Educator specialization. Demonstration of the capacity for research and independent thought culminating in a thesis. Must be repeated for a minimum of 6 hours. 1-6 F,S,Su

#### NUR 800 DNP Leadership I: Concepts for Evidence-Based Practice

Prerequisite: admission to the DNP Program. This course explores foundational concepts for the development of the DNP nurse leader. Concepts include transforming health care through evidence-based practice, quality improvement, leadership in healthcare systems, project planning, evaluation of evidence, and consideration of disparities in health and healthcare. The DNP project explored in this course will be designed, implemented, and evaluated in future courses. 3(2-3) Su

#### NUR 802 Emerging Science of Advanced Practice

Prerequisite: admission to the DNP Program. In this course, concepts, theories, and philosophical perspectives relevant to nursing science, research, and advanced nursing practice are examined. Emphasis is placed on exploring, analyzing, and applying concepts, theories, philosophies, and research applicable to the discipline of nursing in general, and to the student's area of advanced practice and research. 2(2-0) Su

#### NUR 820 Social Justice and Disparities in Health and Healthcare

Prerequisite: admission to the DNP Program. This course fosters development of advanced knowledge of epidemiology, biostatistical methods, cultural competence, health and healthcare disparity, and social justice concepts. The role of the advanced practice nurse in relation to cultural competence, health and healthcare disparity, and population health is analyzed. 3(3-0) F

#### NUR 824 Health Policy to Improve Health Disparities

Prerequisite: admission to the DNP Program. This course will analyze the development and implementation of health care policy and promote the role of the advanced practice nurse in policy making as an advocate for issues related to social justice, vulnerable populations, and health disparities. 2(2-0) F

#### NUR 830 DNP Leadership II: Impacting Disparities in Health and Healthcare

Prerequisite: admission to the DNP Program. This course builds upon the foundations in the introductory leadership course, NUR 800, DNP Leadership I: Concepts for Evidence-Based Practice. The focus of this course includes the topics of leadership theory, change, problem solving, decision making, translational research, quality improvement, budgeting, to address disparities in health and healthcare. 3(3-0) F

#### NUR 840 Technology for Transforming Nursing and Healthcare Systems

Prerequisite: admission to the DNP Program. This course is designed to provide an overview of nursing and healthcare information technology for the advanced practice nurse. The purpose of this course is to explore information system concepts and leverage technologies that can be used to improve quality, enhance patient safety, and transform the health of individuals, families, communities and populations. 2(2-0) S

## NUR 860 DNP Leadership III: Transforming Systems

Prerequisite: admission to the DNP Program. This course builds on previous DNP Leadership courses and concepts, with an emphasis on DNP Leadership for transforming health and healthcare delivery at the systems level to address health and health care disparities. Concepts addressed include strategic planning; resource management; leading and managing change and innovation in traditional and community environments; entrepreneurship, healthcare economics; influencing organizational culture and behavior; program/impact evaluation; and advanced leadership roles, such as consultant, entrepreneur, and mentor. 4(4-0) S

## NUR 991 Transforming Practice I

Prerequisite: admission to the DNP Program. This course is the preliminary DNP degree project course. The DNP degree project course focus is on the concepts and skills necessary to create and implement projects and evaluate outcomes for change in clinical practice. Skills learned and applied in this preliminary course include developing a needs assessment, project planning, budgeting, managing risk and navigating project barriers. This course has no less than 96 hours of clinical. 2(0-6) F,Su

## NUR 992 Transforming Practice II

Prerequisite: admission to the DNP Program. During this course, the DNP student will implement an evidence-based project to transform practice within a healthcare system. The project will consider disparities in health and healthcare, and data will be collected for project evaluation. The DNP student will complete a minimum of 192 clinical hours. 4(0-12) F,S

## NUR 993 Transforming Practice III

Prerequisite: admission to the DNP Program. During this course, the DNP student will conclude and evaluate the project implemented in NUR 992 and will disseminate results of the project through an abstract to a regional or national conference and an article to be submitted to a peer-reviewed journal for publication. The DNP student will complete a minimum of 192 clinical hours. 4(0-12) S,Su



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2012-13 Graduate Catalog

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## Department of Physical Therapy

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### Faculty

Professor: Akinniran Oladehin

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### Programs

#### Doctor of Physical Therapy

Scott W. Wallentine, Admissions Coordinator

McQueary Family Health Sciences Hall, Room 204

Phone (417) 836-4514; [SWallentine@missouristate.edu](mailto:SWallentine@missouristate.edu)

**The Department of Physical Therapy offers an entry-level Doctor of Physical Therapy (DPT) program for individuals wanting to enter the profession of physical therapy, and a post-professional, completion DPT program for individuals who are already licensed physical therapists who want to augment their education to obtain the DPT degree.**

#### Entry-Level DPT Program Description

The entry-level curriculum in Physical Therapy focuses on the academic and clinical foundations necessary for a career in physical therapy. Program graduates are prepared to examine patients with impairments, functional limitations, and disabilities (or other health-related conditions) in order to determine a diagnosis and prognosis relevant to physical therapy. They will be able to design, implement, and modify therapeutic interventions to produce changes in their patients' conditions. Graduates will be prepared to offer a variety of additional services including: (1) prevention, wellness and health promotion; (2) consultation with patients, clients, and other



health care professionals; (3) screening to identify individuals at risk, or in need of, physical therapy; (4) educating patients, the general public, local, state, and federal health agencies, and other health care professionals; (5) clinical and basic science research; and 6) administration including direction and supervision of support personnel.

The program prepares graduates to practice in a variety of settings such as hospitals, homes, private physical therapy practices, skilled nursing facilities, schools, corporate and industrial health centers, athletic training facilities, fitness centers, sports injury treatment centers, and education or research centers.

## Program Accreditation

The entry-level DPT program is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE).

## Required Observation Experience

Verifiable observation experience in at least two (2) different areas of physical therapy specialty.

## Interview

Admission into the Physical Therapy program is highly competitive and the number of students who can be admitted each year is limited. Therefore, completion of all prerequisites and other requirements does not assure acceptance into the program. Competitive applicants will be invited for an interview as part of the admission process.

## Admission Requirements

### Minimum Requirements

1. A baccalaureate degree from an accredited college or university. The undergraduate major may be in any field, but students must have completed the prerequisites (or their equivalents) listed below under “prerequisite courses”.
2. A minimum overall GPA of 3.00 on a 4.00 scale.
3. Submission of general Graduate Record Examination (GRE) scores (no minimum score but scores among students are compared).
4. A letter of application that represents an accurate autobiographical sketch that is no longer than three pages.
5. Two letters of recommendation, one from the “Pre-professional Advisor” at the institution where the majority of science courses were taken, and one from a licensed physical therapist.
6. Completion of all other requirements for admission to graduate study at Missouri State University.
7. Ability to meet the technical standards of the program in order to successfully undertake the course of study (available upon request from the program).
8. The Physical Therapy Program at Missouri State University, Springfield Campus, participates in the Physical Therapist Centralized Application Services (PTCAS). Applicants applying to the program must apply online using the PTCAS application. To learn more about the PTCAS application process, please visit <http://www.ptcas.org/>. In addition to the PTCAS online application, applicants are required to send official Graduate Record Examination (GRE) scores to: Missouri State University, Department of Physical Therapy, Attn: Director of Admissions, 901 S National Ave, Springfield, MO 65897. Application deadline is December 15 (all application documents must be received by this date). Classes begin in August of each year.

## Prerequisite Courses

Below is the minimum number of required hours listed by discipline. The course numbers after each discipline indicate those courses offered at Missouri State University that fulfill that prerequisite. Students must complete the courses listed below, or their equivalents, in order to satisfy the prerequisite. If you have questions regarding the prerequisites, contact the Director of Admissions at 417-836-4514. Courses listed below are offered at Missouri State University.

1. English: 6 hrs. English (Composition I and II)
2. Mathematics: 3 hrs. College Algebra (MTH 135) or higher
3. Statistics: 3 hrs. MTH 340 or MTH 545 or ECO 308 or QBA 237 or PSY 200 or SOC 302 or BIO 550
4. College Physics: 8 hrs. PHY 123 and PHY 124
5. Chemistry: 8 hrs. CHM 160, CHM 170 or CHM 200
6. Psychology: 6 hrs. One course should cover basic psychology and one should include abnormal psychology, PSY 121, PSY 304
7. General Biology: 8 hrs. BIO 121 and 122 or BMS 110 and 230
8. Human or Vertebrate Anatomy: 4 hrs. BMS 307
9. Human or Vertebrate Physiology: 4 hrs. BMS 308

### **Recommended but not Required Courses (examples given)**

1. Spanish: SPN 101
2. Computer Applications for Business: CIS 201
3. Personal Financial Planning: FIN 381
4. Management: MGT 286
5. Introduction to Biochemistry: CHM 350
6. Interpersonal Communications: COM 205
7. Behavior Management and Change: PSY 508
8. Cellular Biology: BIO 320
9. Biomedical Sci: BMS 240, 260, 363, 563, 450, 467, 585
10. Communication Sciences and Disorders: CSD 201
11. Philosophy: PHI 105, 343, 513
12. Psychology of Childhood: PSY 331
13. Human Growth and Development: PSY 703
14. Social Work: SWK 212

## **Physical Therapy Program**

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### **Academic and Clinical Standards**

The Physical Therapy program enforces high academic standards and ethical behaviors. To remain in the program, students must earn a “C” or better in all academic courses or a pass when pass/not pass grading is used. A student who earns a “D” or “F” in any academic course in the curriculum, or receives more than 12 semester hours of “C” will be dismissed from the program. A student who earns a failing mark in a clinical internship may be dismissed from the program.

### **Post-Professional Completion Program Admission Requirements**

Applicants must meet admission requirements for the Graduate College as described in the Missouri State University Graduate Catalog or at <http://graduate.missouristate.edu/admissions.htm>, and must be a licensed physical therapist with at least one year of clinical practice experience.

Admission criteria for Missouri State University Physical Therapy Program Graduates are indicated with an asterisk (\*)

In addition to the on-line Graduate Application, applicants will be required to submit the following application materials to the Department of Physical Therapy, 901 S National Ave., Springfield MO 65897:

1. \*A notarized copy of current US physical therapy license.
2. Official transcripts from the CAPTE-accredited institution granting the physical therapy degree (must have a GPA of at least 3.00 on a 4.00 scale).
3. \*Official transcripts of any graduate courses taken since earning the physical therapy degree.
4. GRE scores.
5. Three letters of recommendation from professional and academic colleagues that can address your professional, academic, and leadership ability. At least one recommendation must be from a physical therapist.
6. An essay (typed, double-spaced) - describing personal goals and objectives related to the DPT completion program.
7. \*A Professional Portfolio - contents should include:
  1. Current curriculum vita
  2. Proof of work experience - Notarized letter from current employer
  3. Evidence of competency (certificates from continuing education coursework, conferences or specialty certification)

## Post-Professional Completion Program Program Accreditation

The Post-Professional DPT program is not eligible for accreditation by CAPTE because it is a post-professional program. CAPTE accredits only entry-level programs.

## Program Overview

The post-professional DPT program is a 34 credit-hour completion program. MPT graduates of the Missouri State University Physical Therapy Program will qualify for a reduced credit-hour program as outlined in Completion Programs A and B below. Graduates from accredited programs other than Missouri State University may qualify for a reduced credit-hour program (up to 6 credits) based upon portfolio review (see Completion Track C below). Limited course substitutions may be granted on a case-by-case basis for students in any of the three completion programs.

Missouri State University's Post-Professional DPT completion program utilizes standard, web, and hybrid-based education formats to provide practicing physical therapists the opportunity to advance their knowledge and career. The program focuses on evidenced-based practice, differential diagnosis, and medical imaging. A degree in physical therapy from a program accredited by CAPTE is required.

Students must complete the program within a 5-year period from the start of their first class. The program will admit students from Spring 2011 through Fall 2013. All coursework must be completed by May 2018. Class sizes are limited and classes may not be offered every year. Qualified applicants are accepted on a first-come basis. To remain in the program, students must maintain good academic standing with a minimum GPA of 3.00 and comply with the Department's grading policies.\* Students must complete at least one course per year (beginning with the year of their starting semester). Students failing to complete one course per year will be removed from the program. Exceptions will be considered on an individual basis following a written letter from the student to the program core faculty.

Application Deadlines: To apply for a specific semester, application materials must be received by the following dates: Fall semester - July 1; Spring semester - November 1; Summer semester - April 1.

Classes Start: Fall, Spring and Summer. Course descriptions are in the Missouri State University Graduate Catalog.

Completion Program A - Missouri State University Graduates Classes of 2003- 2005. Minimum of 20 credit

hours.

Course Code	Course Title	Credit Hours
	Complete <b><i>ALL</i></b> of the following courses	
<a href="#"><u>PTE 714</u></a>	Imaging Analysis in Physical Therapy Practice	2 hrs
<a href="#"><u>PTE 730</u></a>	Motor Control/Motor Learning	3 hrs
<a href="#"><u>PTE 800</u></a>	Advanced Topics in Geriatrics	2 hrs
<a href="#"><u>PTE 804</u></a>	Advanced Topics in Pediatrics	2 hrs
<a href="#"><u>PTE 802</u></a>	Advanced Regional Anatomy: Neural Correlates	2 hrs
<a href="#"><u>PTE 803</u></a>	Advanced Topics in Musculoskeletal Physical Therapy: Manual Techniques	2 hrs
<a href="#"><u>PTE 873</u></a>	Patient Management: Advanced Differential Diagnosis	3 hrs
	AND	
	Complete <i>two</i> elective courses (minimum of 4 credit hours)	4 hrs

\*Grading Policy A: Students must earn a grade of "C" or better in all classes, and may earn no more than 4 credit hours of "C" during the course of Completion Program A.

Completion Program B - Missouri State University Graduates Classes of 2006 and 2007. Minimum of 10 credit hours.

Choose *one* area of concentration (track) from the list below (minimum of 6 credit hours) 6 hours

Complete *two* elective courses (minimum of 4 credit hours) 4 hrs

\*Grading Policy B: Students must earn a grade of "B" or better in all classes during the course of Completion Program B.

Completion Program C - Graduates of Other Accredited Programs. 34 credit hours (28 credit hours must be from Missouri State University).

Complete all core courses 24 hours

Choose *one* area of concentration (track) from the list below 6 hrs

Complete *two* elective courses 4 hrs

\*Grading Policy C: Students must earn a grade of "C" or better in all classes, and may earn no more than 6 credit hours of "C" during the course of Completion Program C.

NOTE: Some courses are offered by departments other than the Department of Physical Therapy.

Core Courses (24 credits)

Course Code	Course Title	Credit Hours
<a href="#"><u>PTE 714</u></a>	Imaging Analysis in Physical Therapy Practice	2 hrs
<a href="#"><u>PTE 730</u></a>	Motor Control/Motor Learning	3 hrs
<a href="#"><u>PTE 802</u></a>	Advanced Regional Anatomy: Neural Correlates	2 hrs
<a href="#"><u>PTE 731</u></a>	Pathophysiology/Differential Diagnosis I	3 hrs
<a href="#"><u>PTE 741</u></a>	Pathophysiology/Differential Diagnosis II	3 hrs

<u><b>PTE 762</b></u>	Medical Pharmacology	2 hrs
<u><b>MGT 701</b></u>	Health Services Organizations	3 hrs
<u><b>PHI 613</b></u>	Bioethics	3 hrs
<u><b>PSY 627</b></u>	Advanced Psychological Statistical Methods	3 hrs

## Electives

Course Code	Course Title	Credit Hours
<u><b>PTE 800</b></u>	Advanced Topics in Geriatrics	2 hrs
<u><b>PTE 801</b></u>	Vestibular Rehabilitation	2 hrs
<u><b>PTE 802</b></u>	Advanced Regional Anatomy Section 1 - Upper quarter (2 hrs) Section 2 - Lower quarter (2 hrs) Section 3 - Spine (2 hrs) Section 4 - Neural Correlates (2 hrs)	8 hrs
<u><b>PTE 803</b></u>	Advanced Topics in Musculoskeletal Physical Therapy Section 1 - Sports Physical Therapy (2 hrs) Section 2 - Manual Techniques in Physical Therapy (2 hrs) Section 3 - Ergonomic Assessment and Intervention (2 hrs)	6 hrs
<u><b>PTE 804</b></u>	Advanced Topics in Pediatrics	2 hrs
<u><b>PBH 756</b></u>	Introduction to Public Health	3 hrs
<u><b>PBH 720</b></u>	Epidemiology	3 hrs
<u><b>HLH 750</b></u>	Programming Approaches in Wellness/Health Promotion	3 hrs
<u><b>PBH 775</b></u>	Principles and Skills of Public Health Administration	3 hrs
<u><b>PSY 703</b></u>	Human Growth and Development	3 hrs
<u><b>MGT 711</b></u>	Measurement and Management of Quality in Health Care	3 hrs

## Areas of Concentration

## Neuromuscular Track (6 credits)

Course Code	Course Title	Credit Hours
<u><b>PTE 801</b></u>	Vestibular Rehabilitation	2 hrs
<u><b>PTE 873</b></u>	Patient Management: Advanced Differential Diagnosis	2 hrs
	Plus <i>one</i> of the following courses:	
<u><b>PTE 804</b></u>	Advanced Topics in Pediatric: Physical Therapy	2 hrs
<u><b>PTE 802</b></u>	Advanced Regional Anatomy	2 hrs

## Orthopedic Track (6 credits)

Course Code	Course Title	Credit Hours
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<b><u>PTE 803</u></b>	Advanced Topics in Musculoskeletal Physical Therapy (any two of the four below) Section 1 - Sports Physical Therapy (2 hrs) Section 2 - Manual Techniques in Physical Therapy (2 hrs) Section 3 - Ergonomic Assessment & Intervention (2 hrs)	4 hrs
<b><u>PTE 873</u></b>	Patient Management: Advanced Differential Diagnosis	2 hrs

Lifespan Track (6 credits)

Course Code	Course Title	Credit Hours
<b><u>PTE 713</u></b>	Human Development and the Life Cycle	2 hrs
<b><u>PTE 873</u></b>	Patient Management: Advanced Differential Diagnosis Plus <i>one</i> of the following courses:	2 hrs
<b><u>PTE 800</u></b>	Advanced Topics in Geriatric: Physical Therapy	2 hrs
<b><u>PTE 804</u></b>	Advanced Topics in Pediatric: Physical Therapy	2 hrs

Public Health/Administration Track (6 credits)

Course Code	Course Title	Credit Hours
<b><u>PBH 756</u></b>	Introduction to Public Health Plus <i>one</i> of the following courses:	3 hrs
<b><u>PBH 720</u></b>	Epidemiology	3 hrs
<b><u>HLH 750</u></b>	Programming Approaches in Wellness/Health Promotion	3 hrs
<b><u>PBH 775</u></b>	Principles and Skills of Public Health Administration	3 hrs
<b><u>PSY 614</u></b>	Behavior Management and Change	3 hrs
<b><u>MGT 711</u></b>	Measurement and Management of Quality in Health Care	3 hrs

Research Track (6 credits)

Course Code	Course Title	Credit Hours
<b><u>PTE 760</u></b>	Management of Research Projects	2 hrs
<b><u>PTE 873</u></b>	Patient Management: Advanced Differential Diagnosis	2 hrs
<b><u>PTE 880</u></b>	Research and Outcome Analysis: Completion and Presentations	2 hrs
<b><u>PTE 802</u></b>	Advanced Regional Anatomy	2 hrs

Class Schedule: Course offerings may vary depending upon availability and enrollment. Minimum course enrollments is six students.

Summer

Course Code	Course Title	Credit Hours
<b><u>PTE 730</u></b>	Motor Control/Motor Learning	3 hrs
<b><u>PTE 731</u></b>	Pathophysiology/Differential Diagnosis I	3 hrs
<b><u>PTE 801</u></b>	Vestibular Rehabilitation	2 hrs
<b><u>PTE 803</u></b>	Advanced Topics in Musculoskeletal Physical Therapy: Sports Physical Therapy	2 hrs
<b><u>PTE 802</u></b>	Advanced Regional Anatomy: Variable Sections	2 hrs

Fall

Course Code	Course Title	Credit Hours
<a href="#"><u>PTE 714</u></a>	Imaging Analysis in Physical Therapy Practice	2 hrs
<a href="#"><u>PTE 741</u></a>	Pathophysiology/Differential Diagnosis II	2 hrs
<a href="#"><u>PTE 762</u></a>	Medical Pharmacology	2 hrs
<a href="#"><u>PTE 764</u></a>	Patient Management: Exercise Physiology, Nutrition, and Wellness	3 hrs
<a href="#"><u>PSY 745</u></a>	Statistics and Research Design	3 hrs
<a href="#"><u>MGT 701</u></a>	Health Services Organizations	3 hrs
<a href="#"><u>PTE 800</u></a>	Advanced Topics in Geriatrics	2 hrs
<a href="#"><u>PTE 803</u></a>	Advanced Topics in Musculoskeletal Physical Therapy: Manual Techniques	2 hrs

Spring

Course Code	Course Title	Credit Hours
<a href="#"><u>PTE 802</u></a>	Advanced Regional Anatomy: variable sections	2 hrs
<a href="#"><u>PTE 803</u></a>	Advanced Topics in Musculoskeletal Physical Therapy: Ergonomic Assessment and Intervention	2 hrs
<a href="#"><u>PTE 804</u></a>	Advanced Topics in Pediatrics	2 hrs

### Entry-Level DPT Program Course Schedule

Fall, Semester 1 (17 weeks classroom)

Course Code	Course Title	Credit Hours
<a href="#"><u>PTE 707</u></a>	Medical Human Anatomy	6 hrs
<a href="#"><u>PTE 710</u></a>	Introduction to Physical Therapy	3 hrs
<a href="#"><u>PTE 711</u></a>	Professional Issues I	2 hrs
<a href="#"><u>PTE 712</u></a>	Biomechanics and Kinesiology	5 hrs
<a href="#"><u>PTE 713</u></a>	Human Development and the Life Cycle	3 hrs

Spring, Semester 2 (17 weeks classroom)

Course Code	Course Title	Credit Hours
<a href="#"><u>PTE 714</u></a>	Imaging Analysis in Physical Therapy Practice	2 hrs
<a href="#"><u>PTE 720</u></a>	Neuroanatomy- Neuroscience	4 hrs
<a href="#"><u>PTE 721</u></a>	Professional Issues II	2 hrs
<a href="#"><u>PTE 722</u></a>	Physical Agents and Mechanical Modalities	2 hrs
<a href="#"><u>PTE 723</u></a>	Patient Management: Musculoskeletal I	4 hrs
<a href="#"><u>BMS 752</u></a>	Medical Physiology	3 hrs

Summer, Semester 3 (7 weeks classroom; 4 weeks clinical)

Course Code	Course Title	Credit Hours
<a href="#"><u>PTE 730</u></a>	Motor Control/Motor Learning	3 hrs



<u><b>PTE 731</b></u>	Pathophysiology/Differential Diagnosis I	3 hrs
<u><b>PTE 732</b></u>	Electrotherapeutic Modalities and Clinical Electrophysiology	2 hrs
<u><b>PTE 733</b></u>	Patient Management: Musculoskeletal II	4 hrs
<u><b>PTE 737</b></u>	Clinical Internship I	4 hrs

Fall, Semester 4 (13 weeks classroom; 6 weeks clinical)

Course Code	Course Title	Credit Hours
<u><b>PTE 741</b></u>	Pathophysiology/Differential Diagnosis II	3 hrs
<u><b>PTE 743</b></u>	Patient Management: Neurological I	4 hrs
<u><b>PTE 747</b></u>	Clinical Internship II	6 hrs
<u><b>PTE 750</b></u>	Research and Outcome Analysis	2 hrs
<u><b>PTE 762</b></u>	Medical Pharmacology	2 hrs
<u><b>PTE 764</b></u>	Patient Management: Exercise Physiology, Nutrition, and Wellness	3 hrs

Spring, Semester 5 (10 weeks classroom; 6 weeks clinical)

Course Code	Course Title	Credit Hours
<u><b>PTE 740</b></u>	Research Methods and Design	2 hrs
<u><b>PTE 744</b></u>	Patient Management: Cardiovascular and Pulmonary Problems	3 hrs
<u><b>PTE 753</b></u>	Patient Management: Neurological II	4 hrs
<u><b>PTE 757</b></u>	Clinical Internship III	6 hrs
<u><b>PTE 872</b></u>	Orthotics, Prosthetics, and Assistive Technologies	3 hrs
	Electives	1-2 hrs

Summer, Semester 6 (11 weeks classroom)

Course Code	Course Title	Credit Hours
<u><b>PTE 760</b></u>	Management of Research Projects	2 hrs
<u><b>PTE 761</b></u>	Contemporary Issues in Professional Practice	2 hrs
<u><b>PTE 765</b></u>	The Physical Therapist as Educator	1 hr
<u><b>PTE 767</b></u>	Health Care Systems and the Physical Therapist	1 hr
	Electives	1-2 hrs

Fall, Semester 7 (10 weeks classroom; 8 weeks clinical)

Course Code	Course Title	Credit Hours
<u><b>PTE 871</b></u>	Physical Therapy Management and Administration	3 hrs
<u><b>PTE 873</b></u>	Patient Management: Advanced Differential Diagnosis	4 hrs
<u><b>PTE 877</b></u>	Clinical Internship IV	8 hrs
<u><b>PTE 756</b></u>	Patient Management: Integumentary	1 hr
	Electives	1-2 hrs

Spring, Semester 8 (3 weeks classroom; 14 weeks clinical)

Course Code	Course Title	Credit Hours
<u><a href="#">PTE 880</a></u>	Research and Outcome Analysis: Completion and Presentation	2 hrs
<u><a href="#">PTE 883</a></u>	Patient Management: Critical Integration and Analysis II	1 hr
<u><a href="#">PTE 887</a></u>	Clinical Internship V	8 hrs
<u><a href="#">PTE 888</a></u>	Clinical Internship VI	6 hrs

## Entry-Level DPT Degree Requirements    133 hrs

1. Students must successfully complete the 133 hours of the physical therapy curriculum. The courses must be taken in the order and at the time scheduled for each admitted class (cohort group).
2. Research. Students must complete and present a graduate level research paper, which is part of the requirement in PTE 880.
3. Comprehensive Examination. Students must pass a comprehensive examination, which is implemented in the curriculum as computer competency testing.

### Curriculum

The curriculum is designed sequentially so that courses must be taken in the order and at the time scheduled for each admitted class (cohort group). Any exceptions to the cohort progression requirement must stem from unavoidable and extreme personal circumstances, and must be approved by the core faculty and Department Head.

### Health Issues

Physical Therapy students will be required to complete a physical examination including a TB skin test or chest X-ray. In addition, MMR, Hepatitis B, and other vaccinations are required. Physical therapy students must have the capacity for performance of the technical functions and tasks required of a physical therapist.

The American Physical Therapy Association has a Professional Code of Ethical Conduct. All physical therapy students will adhere to this Code and respect the rights and dignity of all individuals.

There are additional policies and procedures for physical therapy students that are explained in the *Handbook for Physical Therapy Students* at Missouri State University. Each student gets this handbook during orientation for first year students.

The Physical Therapy program requires students to pass a background security check and a drug screening. These programmatic screening policies are a result of health organizations' requirements for placement at their clinical sites. Students will be financially responsible for the background security check, drug screening, and housing/transportation costs during clinical internships. Please see academic program requirements, applications materials and admission standards for specific detailed information. Students who do not pass the appropriate screenings may not be able to complete the program or practice professionally.

## Physical Therapy Courses

### PTE 707 Medical Human Anatomy

Prerequisite: admission to the program or permission. This course offers an in-depth coverage of basic, applied, and clinical aspects of gross anatomy. Students observe, discuss, teach, learn, and dissect all body systems in detail. This course incorporates traditional didactic lectures, discussions, laboratory dissection, students teaching students in laboratory teaching sessions, and assignments that rely on critical thinking. Students make oral presentations and use the library and other sources of information (such as the Internet and our computer laboratory) to learn and teach applied gross anatomy. Identical with BMS 707. Cannot receive credit for both PTE 707 and BMS 707. Supplemental course fee. 6(3-10) F

### PTE 710 Introduction to Physical Therapy

**Prerequisite:** admission to the program. This course is closely integrated with Professional Issues I. It provides an overview of physical therapy, including the history of physical therapy and the APTA, and the physical therapist's professional responsibilities. This information is combined with the acquisition of skills and knowledge necessary to be successful in managing patients. The topics that are discussed in Professional Issues I, e.g., Standards of Practice for Physical Therapy, Guidelines for Physical Therapy Documentation, and Guidelines for Professional Conduct, are "transformed" into practical skills that are necessary to professionally interact with patients. Hence this course combines these concepts with the skills necessary to provide patient care. These skills include the assessment of vital signs, basic measurement techniques, examination of the body, ensuring patient safety, infection control, using proper body mechanics, using appropriate transfers, gait training, and basic documentation, and patient and family education. 3(2-4) F

#### PTE 711 Professional Issues I

**Prerequisite:** admission to the program. This course provides an overview of physical therapy and the physical therapist's professional responsibilities. Information regarding the Standards of Practice for Physical Therapy, the Guidelines for Physical Therapy Documentation, and the Guide for Professional Conduct are essential components of this course. This course focuses on the psychological and social aspects of communication in health care and providing care and services to patients. This includes patients' rights, the psychological impact of illness, social considerations such as gender, race, culture and ethnicity. These concepts are integrated using case studies of various patient-therapist situations. 2(1-3) F

#### PTE 712 Biomechanics and Kinesiology

**Prerequisite:** admission to the program. This course provides the basis for understanding human movement. This encompasses functional anatomy, forces applied to, and by, the body, and the mechanics of human movement, including its quantitative assessment. Angular and linear kinetics and kinematics are studied and applied to patient management. Interactions among the skeletal, muscular, and neural systems of the body are emphasized as they relate to understanding normal and abnormal human movement. 5(4-3) F

#### PTE 713 Human Development and the Life Cycle

**Prerequisite:** admission to the program or permission. This course describes the major features of embryology, maturation of the fetus, changes that occur during pregnancy, childbirth, the neonatal period, childhood, adolescence, adulthood and aging. The course stresses an integrated approach to understanding all of these periods of life as a cycle of events, each with its unique challenges to the health care professional. 3(3-0) D

#### PTE 714 Imaging Analysis in Physical Therapy Practice

**Prerequisite:** enrollment in the program and successful completion of all prior course work therein. This course emphasizes the analysis and interpretation of diagnostic images of patients with a variety of impairments or dysfunctions of the musculoskeletal, cardiopulmonary, nervous, and circulatory systems as they apply to contemporary physical therapy practice. Various imaging techniques will be incorporated into case studies which will be used to emphasize incorporation of image findings into the process of patient management. 2(2-1) S

#### PTE 720 Neuroanatomy-Neuroscience

**Prerequisite:** enrollment in the program and successful completion of all prior course work therein. This course describes the gross anatomy and applied function of the central and peripheral nervous systems. Normal anatomy and function is compared and contrasted with abnormal anatomy and function due to disease or injury. 4(3-3) S

#### PTE 721 Professional Issues II

**Prerequisite:** enrollment in the program and successful completion of all prior course work therein. This course focuses on employment settings, legal issues regarding Physical Therapist Assistants, the structure of the American Physical Therapy Association, regulations, policies, practice acts, federal legislation, and direct access to patients. Additionally, this course focuses on the legal aspects of

professional life including basic elements of contract law, criminal law, educational law, employment law, insurance law, and business law. Students continue to develop an Individual Clinical Internship Plan with specific goals and objectives and select clinical sites for Clinical Internship I - IV. 2(0-4) S

#### PTE 722 Physical Agent and Mechanical Modalities

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course describes thermal modalities (diathermy, therapeutic heat and cold, therapeutic ultrasound, low-power lasers, ultraviolet therapy) and mechanical modalities (spinal traction, intermittent compression devices, continuous passive movement devices, therapeutic soft tissue mobilization, and massage). In addition, the underlying scientific principles and clinical uses of physical agents and mechanical modalities are described. 2(2-2) S

#### PTE 723 Patient Management: Musculoskeletal I

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course emphasizes the management of patients with musculoskeletal dysfunctions of the appendicular skeleton. Case studies are used to emphasize the process of patient management, i.e., examination, assessment, diagnosis, prognosis, treatment, analysis of functional outcomes, and re-assessment. The joints of the limbs are the central themes around which the cases are built. General and specific examination and treatment techniques are included, stressing the integration of knowledge and skills. Treatment techniques include (but are not limited to) the use of soft tissue mobilization, myofascial release, therapeutic exercise, and basic joint mobilization. 4(2-6) S

#### PTE 730 Motor Control/Motor Learning

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course builds on, and extends, the information covered in Neuroanatomy - Neuroscience. It focuses on motor control systems and on the structure and function of the major components of the brain. The content is presented so that neurological lesions are understood based on an understanding of anatomical location and function. Case studies are used to introduce clinical reasoning based on fundamental knowledge in neuroanatomy and neuroscience. 3(2-2) Su

#### PTE 731 Pathophysiology/Differential Diagnosis I

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course covers pathological conditions and their implications for Physical Therapists. All major systems of the body are studied. The pathophysiological portion of the course integrates the knowledge acquired in physiology with abnormal physiology caused by pathology. Case studies are used to integrate concepts in patient management related to pathology and pathophysiology. 3(2-2) Su

#### PTE 732 Electrotherapeutic Modalities and Clinical Electrophysiology

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course describes electrotherapeutic modalities and clinical electrophysiologic testing. In addition, the underlying scientific principles and clinical uses and application of electrotherapeutic modalities and clinical electrophysiologic testing are incorporated. Major topics in this course include: electrical stimulation of muscle, electrical stimulation to control posture and movement (FES/NMES), electrical stimulation to control pain, electrical stimulation to promote tissue healing, iontophoresis, electroneuromyography, EMG, NCV, and biofeedback. 2(2-5) Su

#### PTE 733 Patient Management: Musculoskeletal II

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course builds on the knowledge and skills acquired in Patient Management: Musculoskeletal I. It focuses on management of the axial skeleton and all of the joints associated therewith. Sophisticated examination and manual mobilization techniques are covered in detail. 4(3-6) Su

#### PTE 737 Clinical Internship I

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course provides an introduction

to the clinical education component of the curriculum, as well as a four week, full-time clinical internship. Learning styles will be discussed, as well as how clinically-based learning may differ from classroom or laboratory experiences. Students will continue to develop their clinical internship plan and specific goals and objectives for this Clinical Internship. Students will complete a case study or present an "in-service" while on the four week internship write a short, reflective paper, and meet the requirements established by the program and the clinical facility. 4 Su

#### PTE 740 Research Methods and Design

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course examines the importance of research, the methods used to conduct research of various types, and the models that are available for designing appropriate research projects. Quantitative and qualitative research is covered in detail, as well as the use of functional outcome measurements to improve patient care and document treatment efficiency and effectiveness. 2(1-2) S

#### PTE 741 Pathophysiology/Differential Diagnosis II

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course focuses on Internal Medicine from the perspective of implications for physical therapists. A significant component of the course will focus on signs and symptoms, disease recognition, associated surgical procedures, and on the effects of disease with regard to producing functional limitations and disabilities. This course covers muscular, skeletal, neurological, cardiovascular, pulmonary, hematologic, gastrointestinal, renal, urological, hepatic, and endocrine diseases. Case students are incorporated to emphasize patient management. Common medical instrumentation used in skilled patient management, the basic medical procedures associated with this instrumentation, and the application of this information to patient management in physical therapy is integrated where appropriate. 3(2-3) F

#### PTE 743 Patient Management: Neurological I

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course covers neurological disabilities that primarily affect infants, children, and adolescents. Case studies and laboratory experiences are used to emphasize the process of patient management, i.e., examination, assessment, diagnosis, prognosis, treatment, analysis of functional outcomes, and re-assessment. General and specific examination and treatment techniques are included stressing the integration of knowledge and skills. Treatment approaches include theoretical models, and task-oriented models. Therapeutic exercise, modalities, and other treatment skills are presented and included in case studies. Functional outcome measures are incorporated, as well as patient management in the home. 4(2-6) F

#### PTE 744 Patient Management: Cardiovascular and Pulmonary Problems

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course presents an overview of cardiac, vascular, and pulmonary physical therapy. It integrates foundational information such as anatomy, physiology, exercise physiology, embryology, histology, pharmacology, pathology, and pathophysiology into a meaningful basis on which patient management strategies are based. This course introduces the student to cardiovascular and pulmonary assessments, interventions, and outcome analyses. The course includes information specific to pediatric, adolescent, adult, and geriatric patients. 3(2-3) S

#### PTE 747 Clinical Internship II

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course provides for continuing development of clinical skills in the form of a six week, full-time clinical internship. Students will continue to develop their clinical internship plan and specific goals and objectives for Clinical Internship II. Students will complete a case study or present an "in-service" while on the six week internship write a short, reflective paper, and meet the requirements established by the program and the clinical facility. 6 F

#### PTE 750 Research and Outcome Analysis

**Prerequisite:** enrollment in the program and successful completion of all prior course work therein. This course focuses on the management of data generated by research and outcome analyses. It will fully integrate the use of statistical methods, understanding the results of applying these methods, and making inferences or conclusions based upon the data analysis. It also addresses the larger scope of disseminating this information, professional responsibility to the public to generate meaningful data, and methods of critically analyzing results and conclusions drawn by others. In the latter portion of the course, students identify their research interests, choose or are assigned a research advisor and write a research project proposal. 2(2-0) F

#### PTE 753 Patient Management: Neurological II

**Prerequisite:** enrollment in the program and successful completion of all prior course work therein. This course covers neurological disabilities across the life span, but emphasizes adult neurological disabilities. Case studies and laboratory experiences are used to emphasize the process of patient management, i.e., examination, assessment, diagnosis, prognosis, treatment, analysis of functional outcomes, and re-assessment. General and specific examination and treatment techniques are included stressing the integration of knowledge and skills. Treatment approaches include theoretical models, and task-oriented models. Therapeutic exercise, modalities, and other treatment methods are presented and included in case studies. Functional outcome measures are incorporated, as well as patient management in the home. 4(3-3) S

#### PTE 754 Patient Management: Special Considerations Across the Life Span

**Prerequisite:** enrollment in the program and successful completion of all prior course work therein. This course focuses on pediatric and geriatric physical therapy and on the unique considerations that arise in these patients. The processes involved in development are compared and contrasted with the degenerative processes that occur during aging. The specific assessment and treatment methods unique to each population are studied. Additional correlations are presented in cognitive abilities, communication, dependence on others, etc. Family-centered interventions and family education in the home are compared and contrasted in both populations. 2(1-3) D

#### PTE 756 Patient Management: Integumentary

**Prerequisite:** enrollment in the program and successful completion of all prior course work therein. This course is correlated with information provided in Pathology-Pathophysiology, Neuroanatomy-Neuroscience I and II, and in Physical Agents, Mechanical Modalities, and Electrotherapeutic Modalities. Specific topics that are discussed include (but are not limited to) the prevention of skin disorders, management of burns and other open wounds, and the use of specific modalities to facilitate wound repair. 1(1-0) F

#### PTE 757 Clinical Internship III

**Prerequisite:** enrollment in the program and successful completion of all prior course work therein. This course provides for clinical practice of developing skills in the form of a six week, full-time clinical internship. Students will continue to develop their clinical internship plan and specific goals and objectives for Clinical Internship III. Students will complete a case study or present an "in-service" while on the six week internship, write a short, reflective paper, and meet the requirements established by the program and the clinical facility. 6 S

#### PTE 760 Management of Research Projects

**Prerequisite:** enrollment in the program and successful completion of all prior course work therein. This course builds upon all prior research courses in the curriculum and focuses on each student's project. Students secure Institutional Review Board approval, begin their research project, and move quickly into data collection and analysis. Important issues in research are reinforced. Students work closely with their advisor(s) during this course. 2(1-3) Su

#### PTE 761 Contemporary Issues in Professional Practice

**Prerequisite:** enrollment in the program and successful completion of all prior course work therein. This course focuses on some of the more specialized areas of physical therapy. This includes diseases, conditions, or practice areas such as women's health,



osteoporosis, pelvic floor dysfunction, pregnancy, sports medicine, chronic pain, management of persons with AIDS and HIV infection, lymphedema, selected problems in human behavior, ergonomics, and industrial health and physical therapy. Alternative and holistic therapies are discussed, as well as their relationship and integration with patient rehabilitation. 2(1-3) Su

#### PTE 762 Medical Pharmacology

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course focuses on medical pharmacology, particularly those aspects that significantly impact the practice of Physical Therapy. Specific topics include drugs that affect the autonomic nervous system, the cardiovascular system, the central nervous system, and the endocrine system. In addition, anti-inflammatory, antiviral, antibacterial, and chemotherapeutic drugs are discussed. Case studies augment clinical information and emphasize patient management. 2(1-3) F

#### PTE 764 Patient Management: Exercise Physiology, Nutrition, and Wellness

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course describes the effects of physical activity on human performance across the life span. The effects of exercise (or lack thereof) are considered for each system in the body. Strategies for improving physical performance in a variety of settings are considered, as well as fundamental principles of good health in relation to exercise. 3(2-3) F

#### PTE 765 The Physical Therapist as Educator

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course focuses on educational theories and methodology relevant to the physical therapist in a variety of physical therapy settings. These topics are discussed in the context of promoting optimal health, preventing injury and illness, and promoting wellness. Upon completion of this course, the student will be able to utilize educational concepts and theories in the design, implementation, and evaluation of learning experiences used in the education of the community, industry, patients, families, students, colleagues, and self. 1(1-0) Su

#### PTE 767 Health Care Systems and the Physical Therapist

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course is an introduction to the various health care delivery systems in the United States, and provides a synopsis of the health care systems found in countries other than the United States. This course allows students to explore the provision of physical therapy services within the constraints of the existing health care systems, and to identify community needs, and resources. 1(1-0) Su

#### PTE 785 Histology and Tissue Biology

Prerequisite: enrollment in the program and successful completion of all prior course work therein, and permission of instructor. Course emphasizes the structure and basic function of all the major tissues and cell types in the human body. Includes normal cell and tissue morphology and the adaptations that occur as a result of various stimuli both normal and abnormal. This is a variable content course. May be repeated for a maximum of 6 hours. 1-2 D

#### PTE 800 Advanced Topics in Geriatrics

Prerequisite: enrollment in the program and successful completion of all prior course work therein. In this course students gain insight into physical therapy related to the elderly population, their special needs and physiological changes, living environments, resources, etc. For an additional credit hour of this course, students are encouraged to develop further knowledge, skills, etc., with the elderly population. Based upon student interest and instructor approval, students may pursue additional in-depth study in areas such as (but not limited to): education, skill development, service-learning, investigation, psychomotor skills, psychosocial issues, healthcare system, reimbursement, etc., related to geriatrics. 1-2 D

#### PTE 801 Vestibular Rehabilitation

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course describes the anatomy



and physiology of the vestibular system and an overview of various pathologies associated with patient complaints of vertigo, dizziness, and balance disorders. Principles of examination, evaluation, assessment, and rehabilitation of the patient with impairment of the vestibular system and/or impaired balance are described and performed. 1-2 D

### PTE 802 Advanced Regional Anatomy

Prerequisite: Enrollment in the DPT program and permission of instructor. This is a variable content course offering in-depth coverage of basic, applied, and clinical aspects of gross anatomy of one or more of the following regions: head and neck, upper extremity, trunk, and lower extremity. Students observe, discuss, teach, learn and dissect selected body systems in detail. This course may incorporate traditional didactic lectures, problem based discussions, laboratory dissection with assignments that rely on critical thinking. Students relate anatomical structure to functional relations and correlate structure with clinical assessments and treatments. Students make oral presentations and use the library and other sources of information (such as the Internet) to learn. Course may be repeated up to a maximum of 9 hours. 1-2 D

### PTE 803 Advanced Topics in Musculoskeletal Physical Therapy

Prerequisite: Enrollment in the DPT program and permission of instructor. This is a variable content course emphasizing the management of patients with musculoskeletal dysfunction focusing on research, differential diagnosis and advanced manual examination and treatment techniques. Case studies are used to emphasize the evidence-based process of patient management, i.e., examination, assessment, diagnosis, prognosis treatment, analysis of functional outcomes, and re-assessment. Students will focus on management of musculoskeletal dysfunction relation to one or more of the following regions: the upper extremity, the pelvis and lower extremity, or the spine and sacroiliac joint. Course may be repeated up to a maximum of 9 hours. 1-2 D

### PTE 804 Advanced Topics in Pediatrics

Prerequisite: enrollment in the program and permission of instructor. This is a variable content course designed to allow students to develop their cognitive, psychomotor or affective skills at an advanced level in the area of physical therapy for children. The course may involve readings, projects, and direct clinical experiences individually contracted between the instructor and the student. Course may be repeated up to a maximum of 9 hours. 1-2 D

### PTE 871 Physical Therapy Management and Administration

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course covers theory and practical applications in managing yourself, other people, groups of people, subdivisions of organizations, and businesses. Within this framework, administration is discussed and examined as it pertains to a variety of settings in physical therapy. Health care economics is covered, as well as the economics of starting and managing a business in physical therapy. Marketing is discussed from several perspectives. 3(2-2) F

### PTE 872 Orthotics, Prosthetics, and Assistive Technologies

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course covers limb amputations, orthotic and prosthetic devices, and splints. The use of orthoses, prostheses, and splints is fully integrated into principles of patient management. Advanced wheelchair prescriptions are discussed, as well as advanced technologies (computer technologies, etc.) that are useful in rehabilitation including occupational and industrial therapies and devices. 3(2-3) S

### PTE 873 Patient Management: Advanced Differential Diagnosis

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course focuses on managing patients using a "life-long" conceptual basis. It stresses the importance of being proactive in resolving complex issues, particularly those that impact patients for a lifetime. Critical thinking is an integral part of this course. Cost effectiveness, efficiency, long-term planning, and using the best adaptive equipment for the long-term are emphasized. The elements of patient/client management as described in The Guide to Physical Therapist Practice are used to guide the clinical decision making process. Integral to this course

will be the use of case-based learning modules. 4(2-6) F

#### PTE 877 Clinical Internship IV

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course provides continued clinical practice of skills in the form of an eight-week, full-time clinical internship. Students will continue to develop their global clinical internship plan, while writing specific goals and objectives for Clinical Internship IV. Students will complete a case study or present an "in-service" while on the eight-week internship, write a short, reflective paper, and meet the requirements established by the Program and the clinical facility. Graded Pass/Not Pass only. 8 F

#### PTE 880 Research and Outcome Analysis: Completion and Presentations

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course is the culmination of the student's research work during the physical therapy program. Each student will present a research project to the faculty and peers for evaluation. The student's advisor and/or advisory committee will evaluate the student's research or outcome analysis paper. The paper must be written using the guidelines for publication described in the Physical Therapy Journal. The paper's quality must be similar to those that are published in the Physical Therapy Journal. 2(0-4) F

#### PTE 883 Patient Management: Critical Integration and Analysis II

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course follows PTE 873 that stressed the use of case-based learning modules. This course focuses on managing patients using a "life-long" conceptual basis. It stresses the importance of being proactive in resolving complex issues, particularly those that impact patients for a lifetime. Critical thinking is an integral part of this course. Cost effectiveness, efficiency, long-term planning, and using the best adaptive equipment for the long-term are emphasized. The elements of patient/client management as described in The Guide to Physical Therapist Practice are used to guide the clinical decision making process. The course will culminate with student teaching seminars that students have prepared while on Clinical Internship IV and V. These seminars are complex case studies presented to student peers and faculty. 1(1-0) S

#### PTE 887 Clinical Internship V

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course provides clinical practice in the form of an eight-week, full-time clinical internship. Students will continue to develop their global clinical internship plan, while writing specific goals and objectives for Clinical Internship V. Students will complete a case study or present an "in-service" while on the eight-week internship, write a short reflective paper, and meet the requirements established by the program and the clinical facility. 8 S

#### PTE 888 Clinical Internship VI

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course provides clinical practice in the form of a six-week, full-time clinical internship. Students must meet the requirements established by the Program and the clinical faculty. After completion of Clinical Internship VI and upon their return to campus, students will enter a period of in-depth self-analysis and reflection concerning Clinical Internship VI and the entire clinical education experience. 6 S



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## Department of Physician Assistant Studies

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### Programs

#### Master of Science, Physician Assistant Studies

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## Professional Description

Physician assistants are health professionals prepared to practice medicine with physician supervision. Physician assistants are qualified by graduation from an accredited physician assistant educational program and/or by certification by the National Commission on the Certification of Physician Assistants. Within the physician/PA relationship, physician assistants exercise autonomy in medical decision-making and provide a broad range of diagnostic and therapeutic services.

The clinical role of physician assistants includes primary and specialty care in medical and surgical practice settings in rural and urban areas. Physician assistant practice is centered on patient care and may include educational, research and administrative roles.

## Program Description

The Master of Science in Physician Assistant Studies is a graduate, entry-level, professional study designed to prepare highly competent practitioners to practice primary care medicine in the context of team-delivered care in a rapidly evolving health care arena. The program is 24 months (six semesters) duration and is divided into didactic (12 months) and clinical phases (12 months). Enrollment is on a continuous, full-time basis only. The curriculum is based on the *Accreditation Standards for Physician Assistant Education* and incorporates the principles of scientific inquiry, self-directed study, critical analysis, and problem solving. Due to the rigorous nature of the curriculum, students should not expect to be employed during their enrollment.

## Program Accreditation

The Missouri State University Physician Assistant Program is accredited by the Accreditation Review Commission on Education for the Physician Assistant (ARC-PA). Accreditation is a process of external peer review to assure standards of excellence and quality are met and maintained. Graduation from an accredited PA program is a requirement to practice as a PA in the United States and to sit for the National Commission on Certification of Physician Assistants (NCCPA) certifying examination.

## Admission Requirements

Applications are submitted to CASPA online starting in May for individuals interested in applying for the class beginning in January.

1. Possess baccalaureate degree from a regionally accredited institution in the United States prior to entering the program.
2. Applicants must have an overall grade point average (GPA) of at least 3.00 (as determined by CASPA) on a 4.00 scale, or 3.00 on a 4.00 scale for the last 60 hours of course work is required.
3. Complete all pre-professional prerequisite courses by the end of the fall semester before the program begins (*pre-professional* prerequisite courses listed below). All prerequisite courses must be completed at a regionally accredited institution
4. Complete the Graduate Record Examination General (GRE) or the Medical College Admission Test (MCAT) within the past 5 years.
5. Meet all requirements for admission to graduate study at Missouri State University. Graduate College admission and degree requirements are detailed under the Graduate College policies in this catalog.
6. Present evidence of completion of the Basic Life Support for Health Professionals course approved by the American Heart Association. The certificate must be valid for one year after the beginning of the program.
7. Meet technical standards of the program in order to successfully undertake the course of study. These standards are available upon request from the program. Matriculating students must also demonstrate evidence of good physical health and have up-to-date immunizations (MMR, tetanus, and a complete Hepatitis B series, including a titer demonstrating immunity), and a PPD (Plus chest x-ray for PPD+ individuals).
8. The Missouri State University Physician Assistant Program participates in the Central Application Service for Physician Assistants (CASPA). Applications will be available after May 1 for individuals interested in applying for the class beginning in January. Apply online at <http://www.caspaonline.org>. The deadline for applications to CASPA is August 1. The CASPA web site provides additional information about the initial application requirements and fees.
9. Competitive applicants will be invited to interview with members of the program's admission committee.

10. Applicants who are *accepted* to the program will be required to submit an application to the Graduate College and pay the \$30.00 application fee.
11. Matriculated students must enroll on a full-time basis and progress through the program with their class.
12. All students are required to carry professional liability insurance throughout the program. This insurance is available through the American Academy of Physician Assistants.
13. All students must also carry health (including hospitalization) insurance throughout the entire program. A comprehensive student group health and accident insurance policy is available through Missouri State University.
14. Students will be required to initiate and pay for any security checks and drug screening required by clinical agencies, for application to take the Physician Assistant National Certifying Exam (PANCE), and when applying for professional licensure.
15. Apply for criminal record check and receive response that the applicant has not been convicted of any crime pursuant to Section 660.317 RSMo or other disqualifications that would prohibit licensure as a physician assistant.

## Selection Factors

Admission into the Physician Assistant Studies Program is highly competitive. A maximum of twenty-four students will be selected to enroll in the program each January. While applicants must complete all prerequisite requirements to be considered for a position in the class, completion of all admission requirements does not assure acceptance into the program. In making class selections, the admissions committee will consider the following characteristics of competitive applicants:

- academic potential to successfully complete the program
  - understanding and commitment to the role of the physician assistant
  - personal maturity
  - motivation
  - interpersonal skills
  - quality and duration of health care experience
  - capacity for performance of the technical functions and
  - tasks required of the physician assistant

## Preprofessional Prerequisite Courses Minimum Semester Hours \*\*

1. Life sciences 12 hrs minimum
  - a. Must include 2 courses (8 semester hours total) in anatomy and physiology at the pre-med level or for science majors including lab.
  - b. Must include a course in microbiology (3 semester hours minimum), preferably including a lab component.
  - c. Must include a course in human or medical genetics (3 semester hours minimum).
  - d. Other appropriate courses may include cell biology, cell physiology, embryology, endocrinology, genetics, histology, virology, immunology, molecular biology, neurobiology, bacteriology, and epidemiology.
2. Chemistry 12 hrs minimum
  - a. Must include the complete sequence (2-3 semesters) of general chemistry at the pre-med level or for science majors including lab.
  - b. A course in organic chemistry or biochemistry is also required (a survey course is acceptable).
3. Statistics 3 hrs



#### 4. Social Science 6 hrs minimum

- a. Must include a course in general or introductory psychology
- b. Additional courses may include: developmental psychology, abnormal psychology, sociology, health care ethics, or death and dying, etc.

\*\* Contact department for additional information.

\*\* A grade of "C" or higher must be earned in each of the courses. A minimum GPA of 2.75 (as calculated by CASPA) is required).

\*\* CLEP examination or advanced placement credit may not be used to meet any of the above requirements, unless a comparable number of credits in advanced courses in the discipline have been completed.

\*\* Due to the rapid evolution of the basic sciences, preference may be given to applicants who have completed their pre-professional prerequisite courses during five years prior to applying to the program, particularly those with strong science work.

\*\* Additional chemistry, biology and social science courses (listed above) beyond the minimum will strengthen the application.

### Recommended Prerequisites/Proficiencies

1. Candidate for admission to the PA program should "shadow" a practicing PA for at least 28 hours.
2. Completion of the recommended 2000 hours of direct patient care experience.
3. A course in medical terminology is strongly recommended for applicants who are not health professionals or for any applicant not confident of their ability in this area. Self-study courses are appropriate.
4. Proficiency in basic computer skills (word-processing, spreadsheets, databases, Internet searches, E-mail) is expected of all entering students as the curriculum will incorporate the use of computer technology. Additionally, all students in the program will be expected to have computer access to the Internet available at home.

### Retention During the Program

The PA program holds high academic and ethical standards. A student must attain a grade point average of at least 3.00 on all graduate work. A grade of "C" or above (or "pass" for courses graded "pass/not pass") represents acceptable professional work for the PA program, however a student earning more than nine semester hours of "C" or lower becomes ineligible for graduate study. No course with a grade below "C" may be applied toward a graduate degree. Any grade below a "C" in any given course, didactic or clinical, is not acceptable and may be grounds for dismissal from the PA program for academic reasons, subject to faculty discretion. If a student earning a grade below a "C" is retained in the program, the student will be required to complete remedial work prescribed by the faculty; this may result in the students delayed graduation. Students must also meet any requirements for individual clinical preceptorship sites.

Admission to the PA program and acceptable grades represent the minimum criteria necessary for successful completion of the PA program. The PA program faculty constitutes the Promotions Committee which meets at the end of the didactic year to determine if students will be advanced to the clinical phase of training. While grades are important, the decision to promote a student is based on the composite picture of the ability of the student to perform satisfactorily in the clinical phase of training. If a student has failed to demonstrate an attitude of professionalism (as detailed in the didactic year policy manual) or if the committee does not believe that student is prepared to assume patient care responsibilities, a student may be dismissed from the program. Similarly, at the end of the clinical year, the Promotions Committee will make a determination about a student's readiness to graduate based on academic performance and professional growth and development.



## Degree Requirements

All students must complete the required 83 semester hours of the curriculum (42 didactic and 41 clinical) in the prescribed sequence for each admitted class (cohort). Any exceptions to the cohort progression must stem from unavoidable and extreme personal circumstances, and must be approved by the program director.

1. Academic Advisor - Upon matriculation, each student will be assigned to a departmental academic advisor, who along with the program's didactic and clinical coordinators, will supervise a student's progression through the program.
2. Didactic year courses:

Spring - 15 credit hours

Course Code	Course Title	Credit Hours
<a href="#"><u>PAS 717</u></a>	Medical Human Anatomy and Radiology	6 hrs
<a href="#"><u>BMS 752</u></a>	Medical Physiology	3 hrs
<a href="#"><u>PAS 753</u></a>	Molecular Pathophysiology	1 hr
<a href="#"><u>PAS 765</u></a>	Clinical Assessment I	3 hrs
<a href="#"><u>PAS 769</u></a>	Behavioral Medicine	1 hr
<a href="#"><u>PAS 775</u></a>	Principles of Clinical Problem Solving	1 hr

Summer - 10 credit hours

Course Code	Course Title	Credit Hours
<a href="#"><u>PAS 785</u></a>	Clinical Medicine I	4 hrs
<a href="#"><u>PAS 780</u></a>	Pharmacotherapeutics I	1 hr
<a href="#"><u>PAS 766</u></a>	Clinical Assessment II	3 hrs
<a href="#"><u>PAS 770</u></a>	Professional Issues Seminar	1 hr
<a href="#"><u>PAS 783</u></a>	Clinical Practicum I	1 hr

Fall - 17 credit hours

Course Code	Course Title	Credit Hours
<a href="#"><u>PAS 786</u></a>	Clinical Medicine II	6 hrs
<a href="#"><u>PAS 781</u></a>	Advanced Pharmacotherapeutics	3 hrs
<a href="#"><u>PAS 787</u></a>	Laboratory Medicine and Clinical Procedures	2 hrs
<a href="#"><u>PAS 788</u></a>	EKG & ACLS	2 hrs
<a href="#"><u>PAS 776</u></a>	Clinical Problem Solving Seminar	1 hr
<a href="#"><u>PAS 777</u></a>	Introduction to Research and Clinical Epidemiology	2 hrs
<a href="#"><u>PAS 784</u></a>	Clinical Practicum II	1 hr

1. Clinical year courses. The clinical year consists of 8 six-week clinical preceptorship experiences (PAS 790) for 4-5 credit hours. Students are required to complete the following required clinical preceptorships:

Family practice-primary care*	12 weeks
General surgery	6 weeks
Internal Medicine	6 weeks
Emergency Medicine	6 weeks

Obstetrics and Gynecology/Women's Health	6 weeks
Pediatrics	6 weeks
Elective	6 weeks

\* Consists of 2 separate 6-week preceptorships that will likely be at different sites to insure a variety of clinical experiences.

In addition, students are required to document patient learning experiences in the field of Psychiatry/ Behavioral Medicine that occur during other preceptorships.

Note: All students must complete at least one primary care preceptorship (family practice, internal medicine, or pediatrics) in a rural setting. Students may be required to relocate for some preceptorship rotations. Normally, the travel, housing, and other expenses incurred in relocation are at the student's expense. Additionally, students will register for PAS 797 Clinical Practice Issues Seminar (1 hour) each semester throughout the clinical year for a total of three credits.

1. Clinical year research requirement. All students will register for PAS 798 Clinical Research Project (2 hours) during the final semester of their clinical year. This project will consist of an in-depth study of a clinical problem of interest, which culminates in a scholarly paper and formal presentation.

## Physician Assistant Studies Courses

### PAS 717 Medical Human Anatomy and Radiology

Prerequisite: admission to the MS in Physician Assistant Studies or permission. Regional study of the human body. Course will include lecture and laboratory activities including cadaver dissection, study of anatomic models, computer images, X-ray, CAT scan, and MRI and ultrasound imaging. Identical with BMS 717. Cannot receive credit for both PAS 717 and BMS 717. Supplemental course fee. 6(3-11) S

### PAS 753 Molecular Pathophysiology

Prerequisite: admission to the MS in Physician Assistant Studies. Introduction to the genetic, immunologic, and microbiologic mechanisms of health and disease. 1(0-2) S

### PAS 765 Clinical Assessment I

Prerequisite: admission to the MS in Physician Assistant Studies. The first of a 2-semester course sequence. Introduction to effective communication and interviewing skills, techniques of physical examination utilizing a systematic anatomical approach and the recording and presentation of clinical information. Format will include lecture, hands-on laboratory exercises, small group presentations, limited patient contact and written and practical examinations. 3(2-2) Su

### PAS 766 Clinical Assessment II

Prerequisite: admission to the MS in Physician Assistant Studies. A continuation of Clinical Assessment I. Emphasis will be on continued development of interviewing and physical examination skills, recognizing and interpreting abnormal physical findings, developing problem lists and differential diagnoses, and refining the recording and presenting of patient evaluation data. In addition, students will learn advanced assessment techniques and perform written and practical skills examinations that incorporate the objective structured clinical exam (OSCE). 3(2-2) Su

### PAS 769 Behavioral Medicine

Prerequisite: admission to the MS in Physician Assistant Studies. A biopsychosocial systems approach to the individual, family and community within the health care delivery system that includes issues germane to public health and rural medicine. A variety of topics such as growth and development, human sexuality, health promotion and disease prevention, health education, patient compliance,

cultural diversity, substance abuse, family violence, child abuse and rural health issues are examined. 1(0-2) S

#### PAS 770 Professional Issues Seminar

Prerequisite: admission to the MS in Physician Assistant Studies. Seminar format for discussion of professional and legal issues relevant to the physician assistant profession. Includes topics such as the history of the profession, health care systems, professional organizations, national certification, Missouri licensure, prescriptive privileges, and clinical ethics. 1(0-2) Su

#### PAS 775 Principles of Clinical Problem Solving

Prerequisite: admission to the MS in Physician Assistant Studies or permission. Introduction to critical thinking skills and problem solving techniques. Incorporates problem based learning format where small groups of students under the supervision of a group leader explore the various facets of "real-life" clinical case scenarios. 1(0-2) S

#### PAS 776 Clinical Problem Solving Seminar

Prerequisite: admission to the MS in Physician Assistant Studies. Advanced exercises in clinical problem solving in a small group format. Commonly presenting clinical problems are utilized as a means to refine students' ability to choose appropriate steps to determine a definitive diagnosis/outcome. 1(0-2) F

#### PAS 777 Introduction to Research and Clinical Epidemiology

Prerequisite: admission to the MS in Physician Assistant Studies. Foundations of quantitative and qualitative research methodology related to the study of disease in populations. Includes issues related to study design, data collection, and methods of statistical analysis with a focus on application of these principles in the clinical setting. Will serve as the foundation for development of the clinical year research project. 2(2-0) F

#### PAS 780 Pharmacotherapeutics I

Prerequisite: admission to the MS in Physician Assistant Studies. The first in a two-course sequence to introduce the principles of pharmacology and pharmacotherapeutics for the diagnosis, prevention and treatment of disease. Emphasis will be placed on the pharmacological, pharmacokinetic and pharmacodynamic properties of drugs and drug classes used in medical practice. 1(1-0) Su

#### PAS 781 Advanced Pharmacotherapeutics

Prerequisite: completion of PAS 780, or RN, or permission. In-depth analysis of pharmacotherapeutics and the application of drugs for the diagnosis, treatment and prevention of disease. Emphasis will be placed on the rational use of drugs in the care and treatment of pediatric, adult and geriatric patients in primary care settings. Will include discussion of treatment guidelines, indications, contraindications, prescription writing, drug law, drug information resources and case studies. Identical with NUR 761. Cannot receive credit for both PAS 781 and NUR 761. 3(3-0) F

#### PAS 783 Clinical Practicum I

Prerequisite: admission to the MS in Physician Assistant Studies and successful completion of didactic course work. A two week clinical experience with a minimum of 64 hours patient care under the supervision of a physician preceptor. Emphasis will be on refining interviewing, physical examination, recording and written/oral presentation skills. Supplemental course fee. 1(0-4) Su

#### PAS 784 Clinical Practicum II

Prerequisite: admission to the MS in Physician Assistant Studies. Preparative course for the clinical year which promotes professional communication skills and an understanding of pertinent clinical practice topics and issues including interprofessional disciplines, medical practice organization, health literacy, chronic care, hospice care, and financial aspects of medical practice including billing and coding. 1(0-4) F

## PAS 785 Clinical Medicine I

Prerequisite: admission to the MS in Physician Assistant Studies. The first in a two-semester course sequence. Introduction to clinical medicine through an organs systems approach that examines the pertinent anatomy, pathophysiology, diagnosis, treatment, follow-up, patient education, and prevention strategies for the various disease entities. Emphasis will be on problems frequently encountered in primary care settings. Includes lecture and discussion. 4(4-2) Su

## PAS 786 Clinical Medicine II

Prerequisite: admission to the MS in Physician Assistant Studies. A continuation of Clinical Medicine I that emphasizes the organs systems approach to examine the pertinent anatomy, pathophysiology, diagnosis, treatment, follow-up, patient education, and prevention strategies for the various disease entities. Emphasis will be on problems frequently encountered in primary care settings. Includes lecture and discussion. Supplemental course fee. 6(6-2) F

## PAS 787 Laboratory Medicine and Clinical Procedures

Prerequisite: admission to the MS in Physician Assistant Studies. "Hands-on" laboratory format class that introduces the student to skills needed to perform diagnostic and therapeutic procedures such as performing/interpreting basic laboratory tests, phlebotomy, casting and splinting, knot tying, suturing, intravenous line insertion, aseptic technique, catheterization, and other clinical skills. Supplemental course fee. 2(1-3) F

## PAS 788 EKG and ACLS

Prerequisite: admission to the MS in Physician Assistant Studies. A study of the principles and practical applications of electrocardiography for the physician assistant, followed by an Advanced Cardiac Life Support course. Lecture, lab, interactive CD, and "mock code" skills training. 2(0-4) F

## PAS 790 Clinical Preceptorship

Prerequisite: admission to the MS in Physician Assistant Studies and promotion from the didactic year. Consists of a six-week structured clinical experience under the supervision of a qualified preceptor that will introduce the student to the evaluation, diagnosis, treatment, monitoring, patient education, and referral of patients for the various clinical presentations within a specific discipline. The emphasis will be on problems encountered in primary care settings. Specific cognitive, skill, and attitudinal objectives are defined for each core clinical area, including family practice/primary care, general surgery, psychiatry/behavioral medicine, internal medicine, emergency medicine, women's health, and pediatrics. May be repeated. 4-5(0-40) F,S,Su

## PAS 797 Clinical Practice Issues Seminar

Prerequisite: clinical year standing in the MS in Physician Assistant Studies. Provides a forum for topics germane to the clinical practice setting and transition to professional practice. Topics of interest will cover areas such as managed health care, ethical decision-making, pharmacological management, resume preparation, job negotiation skills, the national certification examination, etc. May be repeated for a maximum of 3 hours. Graded Pass/Not Pass only. Supplemental course fee. 1(0-2) F,S,Su

## PAS 798 Research Project

Prerequisite: clinical year standing in the MS in Physician Assistant Studies. In-depth study of a clinical problem of interest that culminates in a scholarly paper and formal presentation. Supplemental course fee. 2 F

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Graduate College  
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## Department of Psychology

Hill Hall, Room 101, Phone: (417) 836-5797, Fax: (417) 836-8330

Email: [psychology@missouristate.edu](mailto:psychology@missouristate.edu)

Website: <http://psychology.missouristate.edu/>

Department Head: Timothy K. Daugherty

### Faculty

Professor: Timothy A. Bender, Russell N. Carney, Matthew Fanetti, Donald L. Fischer, Bradley J. Fisher, Robert G. Jones, Thomas D. Kane, David J. Lutz, Arden T. Miller, Carol F. Shoptaugh

Associate Professor: William Paul Deal, Danae L. Hudson, Donn L. Kaiser, D. Wayne Mitchell, Mary C. Newman, Ann D. Rost, Michelle E. Visio, Brooke L. Whisenhunt

Assistant Professor: Erin Buchanan, Steve C. Capps, Melissa Duncan Fallone, Carly A. Yadon, Adena Young-Jones

Instructor: Bogdan Kostic

Adjunct Faculty: Phillip J. Finley, Joseph D. Fietze

Emeritus Professor: Chris T. Bersted, Sylvia T. Buse, Paul J. Companik, James O. Davis, David J. Dixon, Harry L. Hom, Jr., Franklin L. Hyde, Donn L. Kaiser, Elissa M. Lewis, J. Jeff Maloney, Frederick R. Maxwell, Jr., Michael T. Nietzel, Jeanne A. Phelps, B. Richard Quinn, David W. Stockburger, Barbara S. Turpin

### Programs

#### Master of Science, Psychology

David Lutz, Program Director (Clinical Track)

Hill Hall, Room 424; Phone (417) 836-5830

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Carol Shoptaugh, Program Director (Industrial/ Organizational Track)

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D. Wayne Mitchell, Program Director (Experimental Track)

Hill Hall, Room 420; Phone (417) 836-6941

<http://psychology.missouristate.edu/experimental/>; [WayneMitchell@missouristate.edu](mailto:WayneMitchell@missouristate.edu)

This program is designed to educate qualified students in sub-disciplines of psychology and includes extensive and necessary research training and internships.

The Industrial and Organizational program track received full membership/certification from the Council of Applied Master's Programs in Psychology (CAMPP) in April 2005. Full membership indicates that the program complies with the general standards for education and training for applied master's programs.

## Program Description

The M.S. Psychology degree program consists of three tracks: Clinical, Industrial/organizational, and Experimental.

## Entrance Requirements

Admission to our Master's program is very competitive and decisions regarding acceptance will begin March 1. Hence, the application deadline is February 15th. All application materials, including recommendation letters, should be submitted by February 15th.

1. To be considered for admission to the program, a student must apply to both the Department of Psychology's graduate program and the Graduate College.
2. The Graduate College application and application fee, as well as the following materials, must be submitted to the Graduate College.
  - a. transcripts from all undergraduate and graduate institutions that the student has attended; and
  - b. GRE scores including Quantitative, Verbal and Critical Thinking and Writing.
3. A separate application must be submitted with the following materials to the Graduate Admissions Committee of the Psychology Department before the application will be considered:
  - a. a formal application, including a statement of career goals and detailing experience in the community, research, or other relevant non-classroom activities; and
  - b. at least three (3) letters of recommendation (including at least two (2) from college-level teachers who are well acquainted with the student's academic achievements).
  - c. although not required, it is helpful if a copy of the student's GRE report and transcript (unofficial) are included with the materials sent to the Psychology Department. Unofficial materials sent to Psychology are not in place of those required by the Graduate College.
4. Admission to the program requires the following minimum criteria:
  - a. completion of a baccalaureate degree from a regionally accredited college or university;
  - b. cumulative GPA of 3.00 on a 4.00 scale in undergraduate and graduate work and 3.25 in the major field;
  - c. a 3.25 GPA in at least twenty (20) semester hrs or thirty (30) quarter hours of Psychology courses including courses in both statistics and research methods;
  - d. a combined score on the GRE (Quantitative plus Verbal) of at least 1000 with not less than 470 on either section;

A student who does not meet all the above criteria, but who demonstrates outstanding potential, may be considered on the basis of individual merit by the Graduate Admissions Committee and accepted on probationary status.



## Additional Program Requirements

Some academic programs in the health related areas will require students to pass a background security check and a drug screening. These programmatic screening policies are a result of health organizations' requirements for placement at their clinical sites. Students will be financially responsible for the background security check and drug screening. Please see each academic program requirements, applications materials and admission

standards for specific detailed information. Students who do not pass the appropriate screenings may not be able to complete the program or practice professionally.

## Clinical Track

The specific purpose of the clinical track is to develop in students the ability to make basic diagnostic decisions, administer psychological tests, and perform basic counseling. Graduates would be qualified to enter a variety of positions that require basic clinical skills but which do not require a licensed psychologist. Objectives of the clinical psychology Track include:

1. the development of skills in the administration of psychological tests, including intelligence and personality tests;
2. the development of basic skills in the diagnosis of psychological disorders;
3. the development of a knowledge of counseling theories and a practical understanding of the application of these theories;
4. the development of good communication skills, especially interviewing and report writing;
5. the skills and background in psychology to continue growth as a professional scientist/ practitioner.

Graduates of the clinical track will have completed all the *educational* requirements necessary for licensure as a

professional counselor in the State of Missouri. In order to sit for licensure, students must complete an additional 3000 hour clinical experience (beyond the educational requirements) after graduation. Graduates of the clinical track are also well prepared to pursue doctoral studies in clinical psychology or a closely related field.

## Industrial/Organizational (I/O) Track

Adopting a scientist-practitioner model, the Industrial/Organizational (I/O) track is designed to develop research skills and general knowledge of I/O content areas. The focus of the track is on the application of psychological research methods and principles in a variety of settings, including business, industry, government, and non-profit organizations. Students can select either an internship or thesis option. Objectives of the I/O track include:

1. development of research and statistical skills for job analysis, performance assessment, measurement of individual differences, program development and evaluation;
2. development of a knowledge base concerning important contextual influences on behavior, including social influences, work motivation, job design, organizational theory and training and development;
3. development of an understanding of the philosophical, ethical, and legal constraints on the practice of applied psychology;
4. development of communication and interpersonal competence necessary for successful functioning in organizations.

## Experimental Track

The experimental track is designed to prepare students for doctoral studies. That is, it is for those students who wish to primarily pursue an academic/research career (to teach at the university level and to conduct basic or applied research in an effort to advance the science of behavior). Objectives of the experimental track include:

1. development of skills needed to design, conduct, analyze, and report research;
2. acquisition of a broad background in psychology (theory and measurement) as well as specialized knowledge in an area of interest, such as learning, memory, and cognition; attention and perception; physiological; development; ethological or

quantitative psychology.

## Degree Requirements

The program has been designed as a full-time, two-year (four semester) course of study. The total number of credits required for graduation is 47 semester hours. Because most required courses will not be offered nights or weekends, and the Practicum, Internship, Directed Research, and Thesis require time blocks available during the day, a student will be unable to complete all of the degree requirements on a part-time basis. The student must maintain a cumulative GPA of 3.25 or better, show satisfactory progress toward completion of degree requirements, and correct any unsatisfactory performances.

If deficiencies are not removed during the succeeding semester, the student may be terminated from the program.

Students are expected to conform to the Ethical Principles and Code of Conduct of the American Psychological Association. All students will be evaluated periodically on performance in course work, development of research skills, and professional development. Performance of assistantship duties will also be evaluated if applicable.

The purpose of these periodic evaluations is to determine if the student's continuation in the program is warranted. Evaluation procedures are available in the departmental office.

## Core requirements (Required for all tracks)

Course Code	Course Title	Credit Hours
<a href="#"><u>PSY 745</u></a>	Statistics and Research Design	3 hrs
<a href="#"><u>PSY 750</u></a>	Advanced Survey of Psychology	3 hrs
<a href="#"><u>PSY 752</u></a>	Research Methods	3 hrs
<a href="#"><u>PSY 761</u></a>	Ethical and Professional Issues	3 hrs
<a href="#"><u>PSY 780</u></a>	Social Psychology	3 hrs
<a href="#"><u>PSY 796</u></a>	Practicum	6 hrs
	Total	21 hrs

## Industrial/Organizational Track Requirements

Course Code	Course Title	Credit Hours
	Required Core Courses – see above	21 hrs
	Required I/O Courses – see below	21 hrs
<a href="#"><u>PSY 716</u></a>	Personnel Psychology	3 hrs
<a href="#"><u>PSY 718</u></a>	Organizational Psychology	3 hrs
<a href="#"><u>PSY 798/799</u></a>	Internship/Thesis	6 hrs

Plus at least three (3) courses from the following list:

Course Code	Course Title	Credit Hours
<a href="#"><u>PSY 753</u></a>	Program Evaluation	3 hrs
<a href="#"><u>PSY 771</u></a>	Occupational Health Psychology	3 hrs
<a href="#"><u>PSY 772</u></a>	Performance Assessment	3 hrs
<a href="#"><u>PSY 773</u></a>	Human Factors	3 hrs
<a href="#"><u>PSY 774</u></a>	Training and Development	3 hrs

<u>PSY 776</u>	Personnel Selection, Placement and Classification	3 hrs
<u>PSY 778</u>	Group Processes	3 hrs
<u>PSY 779</u>	Topics in Industrial/Organizational Psychology	3-9 hrs
	Electives: Graduate courses chosen from the offerings of Psychology, Management, Communications and Mass Media, and other departments must be approved by the student's committee.	minimum of 5 hrs

### Clinical Track Course Requirements

Course Code	Course Title	Credit Hours
	Required Core Courses – see above	18 hrs
	Required Clinical Courses – see below	21 hrs
<u>PSY 720</u>	Individualized Intelligence Test	3 hrs
<u>PSY 760</u>	Clinical Communication Skills	3 hrs
<u>PSY 765</u>	Techniques of Individual Psychotherapy	3 hrs
<u>PSY 764</u>	Group Psychotherapy	3 hrs
<u>PSY 766</u>	Psychopathology	3 hrs
<u>PSY 798</u>	Internship OR	3 hrs
<u>PSY 799</u>	Thesis	3 hrs
	Electives: Depending upon the student's career objectives, courses will be selected from the following: PSY 614 Behavior Modification & Change; PSY 740 Psych. Assessment; PSY 742 Practicum in Psych. Assessment; PSY 701 Symposium in Psych.; and COU 752 Career Development.	8 hrs

### Experimental Track Course Requirements

Course Code	Course Title	Credit Hours
	Required Core Courses – see above	21 hrs
	Required Experimental Track Courses – see below	18 hrs
<u>PSY 799</u>	Thesis	6 hrs
	<i>Plus 4 courses selected from the following:</i>	12 hrs
<u>PSY 606</u>	Perception	3 hrs
<u>PSY 614</u>	Behavior Management and Change	3 hrs
<u>PSY 612</u>	Personality Theory and Systems	3 hrs
<u>PSY 619</u>	Cognitive Development	3 hrs
<u>PSY 622</u>	Physiological Psychology	3 hrs
<u>PSY 625</u>	Motivation and Emotion	3 hrs
<u>PSY 629</u>	Psychological Tests and Measurements	3 hrs
<u>PSY 634</u>	Psychology of Infancy	3 hrs
<u>PSY 701</u>	Symposium in Psychology	3 hrs
<u>PSY 703</u>	Human Growth and Development	3 hrs

<b><u>PSY 708</u></b>	Memory	3 hrs
<b><u>PSY 751</u></b>	Seminar in Methods of Research	3 hrs
	Electives: Under direction of the student's committee, 600- and 700-level courses from psychology and other departments may be used to complete the electives.	8 hrs

## Comprehensive Examination.

A written comprehensive examination must be passed by the candidate before a degree will be granted.

## Description of Culminating Experiences

Culminating experiences are crucial to the MS in Psychology program because these experiences are typically a major consideration in employment and in opportunities for doctoral study. Students must complete six hours of either PSY 798 (Internship) or PSY 799 (Thesis), or three hours for the Clinical track, before they earn their degrees.

Internships will be congruent with program goals and will be conducted in sites appropriate to the career goals of each student. For each credit hour, students must serve 60 hours at the internship agency. Evaluation of student performance will come from two sources: first, supervisors and caseworkers at the agency, and second, university faculty including the Graduate Program Coordinator and the director of the internship. Besides providing extensive, supervised fieldwork, the internship will allow students to integrate theoretical and research knowledge with specific aspects of the applied experience.

The primary purpose of the thesis is to allow the student to establish and demonstrate research competency. In the pursuit of this goal, students will learn the following:

- a. How to identify an original and significant research problem;
- b. How to conduct comprehensive background literature searches on the topic;
- c. How to collect, analyze, and interpret data; and
- d. How to communicate research results in a scientifically lucid fashion.

The written thesis followed by an oral defense will serve this function.

## Master of Science in Education, Secondary Education: Social Science Area of Emphasis

Contact Dr. Jamaine Abidogun and see program requirements for the M.S.Ed., Secondary Education under Interdisciplinary Graduate Programs.

### Prerequisite Social Science Requirements

A minimum of 24 undergraduate hours in Social Sciences.

### Social Science Requirements

A minimum of 15 hours from Economics, Geography, History, Political Science, Psychology, and Sociology.

Courses from one of the above disciplines	9 hrs
Courses from a second of the above disciplines	6 hrs
Total	15 hrs

# Graduate Certificate In Forensic Child Psychology

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Matthew Fanetti, Certificate Coordinator

Hill Hall, Room 443; Phone (417) 836-6842

[mfanetti@missouristate.edu](mailto:mfanetti@missouristate.edu)

## Program Description

A 12 credit hour Missouri State University Graduate Certificate in Forensic Child Psychology (FCP) is available to non-degree seeking individuals or as a component of the Masters degree in Psychology, experimental track. The certificate is also offered to support professionals in criminology, social work, medicine, and other related specialties. The certificate will not involve training in how to complete forensic interviews; however, it is offered to support professionals who must interact with children in a forensic setting and must take action to safeguard the integrity and reliability of the child's memory of their experiences. It is also useful to help these professionals understand the course and purpose of practices associated with children in the forensic environment, including courtroom experiences.

## Admission Criteria

Submit a Graduate College Application to apply for the program. (For those currently attending MSU as a master's student, no additional application fee will be required). Admission to the certificate program does not constitute admission to any other Missouri State University graduate program.

## Admission Deadline

Applications should be submitted at least one month prior to the semester you wish to begin.

## Program of Study

Following admission to the certificate program, submit a completed "Plan of Study Form" to the Graduate College (please note you must first obtain the certificate advisor's signature). Work with the certificate program advisor to determine which courses will be taken towards the certificate. Keep in mind that courses taken for undergraduate credit cannot be used on the Plan of Study for a graduate certificate.

If it becomes necessary to change a course originally listed on the approved Plan of Study, a "Change of Certificate Plan of Study" Request Form should be completed and submitted to the Graduate College.

## Required Courses

Course Code	Course Title	Credits
<a href="#"><u>PSY 604</u></a>	Forensic Child Psychology	3 hrs
<a href="#"><u>PSY 617</u></a>	Psychology of Child Abuse and Exploitation	3 hrs
<a href="#"><u>PSY 657</u></a>	Forensic Psychology: Child Abuse and the Law	3 hrs
<a href="#"><u>PSY 797</u></a>	Directed Research	3 hrs
	Total	12 hrs

## Completion Requirements

During the semester in which the final course requirement is being completed, a "Notification to Complete a Certificate Program Form" must be submitted to the Graduate College to initiate the final verification. The information on this form is also used to generate your formal certificate.

Prior to applying to complete the certificate, the student must complete and pass a comprehensive examination which covers material from the core courses (PSY 604, PSY 617 and PSY 657). A passing score is 70% correct on this examination.

## Psychology Courses

### PSY 602 Learning Theories

Recommended Prerequisite: PSY 121 and 3 additional hours of psychology. An introduction to contemporary theories about learning and behavior, emphasizing the experimental basis of these phenomena. May be taught concurrently with PSY 502. Cannot receive credit for both PSY 502 and PSY 602. 3(3-0) S

### PSY 604 Forensic Child Psychology

Recommended Prerequisite: PSY 121. Explores the basics of forensic psychology with emphasis on factors that affect children, how these factors are assessed and how communities intervene to reduce both child crime and child victimization. The class will involve text analysis as well as analysis of primary source readings. May be taught concurrently with PSY 505. Cannot receive credit for both PSY 505 and PSY 604. 3(3-0) D

### PSY 606 Perception

Recommended Prerequisite: PSY 121 and 3 additional hours of psychology. Nature of perception, concept formation and role of language. May be taught concurrently with PSY 506. Cannot receive credit for both PSY 506 and PSY 606. 3(3-0) S

### PSY 612 Personality Theory and Systems

Recommended Prerequisite: PSY 121 and PSY 304. Current theories of personality, research background and historical development. May be taught concurrently with PSY 512. Cannot receive credit for both PSY 512 and PSY 612. 3(3-0) S

### PSY 614 Behavior Management and Change

Recommended Prerequisite: PSY 121. To investigate methods and theory for effecting desirable behavior change in schools, homes and personal lives. May be taught concurrently with PSY 508. Cannot receive credit for both PSY 508 and PSY 614. 3(3-0) F

### PSY 617 Psychology of Child Abuse and Exploitation

Study of forensic issues related to child abuse and exploitation. Students will gain an understanding of the forensic and psychological issues that often arise during child abuse investigations. The Child Advocacy Center, Inc. will participate in the design of the course, thus the specific forensic issues discussed will remain current and may change based on the needs of the community. May be taught concurrently with PSY 514. Cannot receive credit for both PSY 617 and PSY 514. 3(3-0) F,S

### PSY 619 Cognitive Development

Recommended Prerequisite: PSY 121 and PSY 331 and 3 additional hours of psychology. Study of cognitive development in children and adolescents. Topics to be included: perception, memory, visual imagery, problem solving, language development, cognitive style, social learning theory, information processing theory, and Piaget's theory. Applications in education, child rearing, and behavior management. May be taught concurrently with PSY 519. Cannot receive credit for both PSY 519 and PSY 619. 3(3-0) D

### PSY 622 Physiological Psychology

Recommended Prerequisite: PSY 121 and 3 additional hours of psychology. Physiological correlates underlying behavior, including sensory and response mechanisms, central nervous system. May be taught concurrently with PSY 521. Cannot receive credit for both PSY 521 and PSY 622. 3(3-0) F

### PSY 625 Motivation and Emotions

Recommended Prerequisite: PSY 121 and 3 additional hours of psychology. Psychological and physiological motives, needs, drives and instinctual mechanisms; emotional effects of these upon the organism. May be taught concurrently with PSY 525. Cannot receive



credit for both PSY 525 and PSY 625. 3(3-0) F

### PSY 627 Advanced Psychological Statistical Methods

Recommended Prerequisite: introductory statistics course selected from PSY 200, 711; AGR 330; ECO 308; MTH 340; QBA 237; REC 328; SOC 302; or equivalent. A review of introductory statistics and investigation of research methods in behavioral sciences that require multivariate statistical models. This course takes an applied orientation and emphasizes the use of statistical packages. Topics include: linear models, principal components analysis, discriminant analysis, multiple regression analysis, multiple regression with categorical variables, and multi-factor ANOVA. May be taught concurrently with PSY 527. Cannot receive credit for both PSY 527 and PSY 627. 3(3-0) S

### PSY 629 Psychological Tests and Measurements

Recommended Prerequisite: PSY 121 and PSY 200 or equivalent. Theory and techniques underlying measurement of human traits and abilities. Critical analysis of intellectual, achievement, interest and personality tests, including their development, application and potential abuses. May be taught concurrently with PSY 529. Cannot receive credit for both PSY 529 and PSY 629. 3(3-0) F,S

### PSY 633 Psychological Issues in Religion

Recommended Prerequisite: PSY 121 and REL 100. Comprehensive overview of historical background, research methods, and contemporary issues involving behavior and religious beliefs. Psychological research in the areas of religious development and cognition will be included. May be taught concurrently with PSY 533. Cannot receive credit for both PSY 533 and PSY 633. 3(3-0) F

### PSY 634 Psychology of Infancy

Recommended Prerequisite: PSY 121 and PSY 331. Theory and research on the maturation and cognition of the human infant in the first two years, from a developmental psychometric perspective. General principles of the mental and motor assessment of the infant and interpretation will be emphasized through class demonstrations so that the student may understand the use of these procedures in interpreting development and research. May be taught concurrently with PSY 534. Cannot receive credit for both PSY 634 and PSY 534. 3(3-0) D

### PSY 635 Discipline and Social Behavior in the Classroom

Recommended Prerequisite: PSY 121; and either PSY 360, PSY 380, PSY 385, or PSY 390. Provides a psychological perspective of individual and social factors necessary to develop an effective eclectic approach to discipline and an understanding of social behavior in the classroom. Includes an emphasis on personal, social, and motivational development. May be taught concurrently with PSY 535. Cannot receive credit for both PSY 535 and PSY 635. 3(3-0) D

### PSY 648 Psychological Testing in Remedial Reading

Prerequisite: permission of department head. Techniques and skills in utilizing psychological tests as they pertain to diagnosing reading disabilities and prediction of success in remedial programs. Students receive supervised practice in administration. May be taught concurrently with PSY 550. Cannot receive credit for both PSY 550 and PSY 648. 3(2-2) D

### PSY 649 Developing Sport Team Leaders

This online course delivers leadership, team processes, and motivation principles to help coaches develop the leadership skills of sport team athletes. This course aligns sport program goals with educational goals by utilizing athletic settings to promote skills that student-athletes can apply on sport teams and in other group settings. Coaches will learn how to set specific leadership goals with team leader-athletes and will learn concrete and constructive ways to mentor leader-athletes. Coaches will use course principles to construct a plan for developing sport team leaders and for making "team leadership" a core team value. May be taught concurrently with PSY 555. Cannot receive credit for both PSY 555 and PSY 649. 1(1-0) D



## PSY 656 Developing Sport Team Leaders Practicum

**Prerequisite:** PSY 649 or concurrent enrollment. Complementing PSY 649 Developing Sport Team Leadership, this course provides a 2-credit option for students to document the application of a leadership development plan on a sport team. This course reinforces the value of leadership and leadership development on sport teams by helping to make "team leadership" a core team value. Advancing this objective, students learn to align the values of sport teams with the broader values of educational institutions. Students taking this course must provide evidence that they have permission to implement a leadership development program on an organized sport team prior to enrolling in the class (hours the student spends with the team must exceed 90 hours). May be taught concurrently with PSY 556. Cannot receive credit for both PSY 556 and PSY 656. 2(2-0) D

## PSY 657 Forensic Psychology: Child Abuse and the Law

Study of the legal issues related to child abuse and exploitation. Students will gain an understanding of the law pertaining to child cases and how interactions with children can bolster or diminish the quality of children's memory report as seen by the judicial system. The Greene County Prosecutor's Office will participate in the design of this course, thus the specific legal issues discussed will remain current and may change based on the needs of the community. May be taught concurrently with PSY 557. Cannot receive credit for both PSY 657 and PSY 557. 3(3-0) F,S

## PSY 669 Psychological Effects of Dementia

**Recommended Prerequisite:** PSY 121 and PSY 365. Description of dementias, with particular references to Alzheimer's Disease and with emphasis on behavioral consequences for both patient and caregiver. Directed practicum. May be taught concurrently with PSY 565. Cannot receive credit for both PSY 565 and PSY 669. 4(2-4) D

## PSY 695 Specialized Topics in Psychology

**Recommended Prerequisite:** 9 hours of Psychology. Specialized investigation into selected topics in psychology. Graduate students will be required to complete an extra project to be determined by the instructor. May be repeated to a maximum of 9 hours if topic is different. Variable content course. May be taught concurrently with PSY 597. Cannot receive credit for both PSY 695 and PSY 597. 1-3 D

## PSY 700 Problems of Psychology

Individual investigation into a problem or problems of concern to the student and deemed of significance by the instructor. Written report required. 1-3 D

## PSY 701 Symposium in Psychology

Specific topics selected to introduce graduate students to research and theory. May be repeated for a maximum of 6 hours. 1-3 D

## PSY 703 Human Growth and Development

Depth investigation of growth and development during elementary school years. Experimental evidence and clinical evaluations used to supplement consideration of major theories of development. 3(3-0) D

## PSY 705 Psychology of Adolescence

Depth investigation of growth and development during the adolescent period. Experimental evidence and clinical evaluation used to supplement consideration of major theories of adolescence. 3(3-0) D

## PSY 707 Psychology of the Adult

Development of intellectual functions, personality, and social psychological processes across the adult life span will be emphasized.

Normal as well as abnormal phenomena unique to young, middle-aged, and elderly adults will also be considered. 3(3-0) D

#### PSY 708 Memory

Provides in-depth analyses of historical and current theories and associated research in higher mental cognition processing. Primary emphasis is on normal human adult functioning, although associated topics such as cognitive development, learning dysfunctions and skill enhancement will be considered. 3(3-0) F

#### PSY 709 Psychological Evaluation of Pre-School Children

Program involving both theory and practice in psychological evaluation of pre-school children. 3(3-0) D

#### PSY 710 Psychology of Education

Orientation to the use of psychology in education. 3(3-0) F

#### PSY 711 Introductory Statistics for Education and Psychology

Statistical techniques used in education and psychology; overview of scaling techniques, sampling, descriptive techniques, inferential techniques (to include t and x<sup>2</sup>), reliability and validity. 3(3-0) D

#### PSY 716 Personnel Psychology

A survey of the psychological principles, theory, and research related to personnel practices in organizations. Topics include job analysis, performance appraisal and criterion development, individual differences measurement, personnel selection, and reliability, validity, and utility analysis. 3(3-0) D

#### PSY 718 Organizational Psychology

Recommended Prerequisite: PSY 121 and PSY 304. A survey of the psychological principles, theory, and research related to behavior in organizations. Topics include work motivation, job satisfaction and performance, leadership and group processes, organizational design and development. 3(3-0) D

#### PSY 720 Individual Intelligence Testing

Prerequisite: PSY 629 or COU 701. Analysis of individual tests of intelligence; Wechsler Scales and the Revised Stanford Binet. Students receive supervised practice in administration, scoring and interpretation of individual tests. Supplemental course fee. 3(2-2) F, S

#### PSY 721 Individual Intelligence Testing II

Prerequisite: PSY 629 or COU 701. Analysis of individual tests of intelligence; Stanford-Binet Fourth Edition and Kaufman Assessment Battery for Children. Students will receive supervised practice in administration, scoring, and interpretation. 3(2-2) D

#### PSY 730 Projective Techniques

Prerequisite: COU 701 and PSY 720. Introduction to theory of and basic underlying projective methods. 3(3-0) D

#### PSY 740 Psychological Assessment

Prerequisite: admission to MS in Psychology program. Students of clinical psychology will be introduced to the process of psychological diagnosis. They will be expected to master the administration, scoring, and interpretation of individual instruments and become acquainted with the foundations and theory and research on which they rest. In addition the course will emphasize the differential applicability of tests and assessment techniques to a wide range of referral problems and the principles of clinical inference

that may be used to interpret, integrate, and communicate their diagnostic findings. 3(3-0) S

#### PSY 742 Practicum in Psychological Assessment

Prerequisite: PSY 740 and PSY 750 and permission of the instructor. Supervised experience in assessment, diagnoses and report-writing with clients at a community mental health facility. Site arrangements must be made by the Practicum Coordinator during the preceding semester. Consists of a one-hour seminar on campus and 4 hours at the practicum site each week. May be repeated and a minimum grade of "B" must be maintained. 3(1-4) D

#### PSY 745 Statistics and Research Design

Recommended Prerequisite: introductory statistics course from PSY 200, 611; AGR 330; ECO 308; MTH 340; QBA 237; REC 328; SOC 302; or equivalent. Use of the Analysis of Variance (ANOVA) Models and Multivariate Analysis in the design and analysis of psychological experiments. 3(3-0) F

#### PSY 750 Advanced Survey of Psychology

Reinforce breadth of knowledge of psychology in the areas of Biological bases of behavior, Sensation and Perception, Memory, Cognition, Motivation, Development and Social Psychology. 3(3-0) F

#### PSY 751 Seminar in Methods of Research

Prerequisite: PSY 710 and PSY 711. Investigation of research methods employed in education and psychology. 3(3-0) D

#### PSY 752 Research Methods

Prerequisite: PSY 745. Provides an understanding of the research methods employed in experimental and applied settings. Includes ethical considerations. 3(3-0) S

#### PSY 753 Program Evaluation

Prerequisite: PSY 745. The application of research methods to the evaluation of programs and planned change interventions in organizations. 3(3-0) D

#### PSY 759 Teaching of Psychology

Must be taken prior to or concurrent with first teaching of any regular or laboratory section of any course. Preparation for teaching college courses, includes development of personal philosophies of teaching; suggestions for active student learning; maintaining student motivation; preparing assignments, in-class presentations, and exams; grading; and classroom management. Designed to help graduate students prepare for their first independent college teaching experiences. 1(1-0) D

#### PSY 760 Clinical Communication Skills

Prerequisite: admission to MS in psychology. Introduction to the nature of the helping process with emphasis on strategies of behavior change, interpersonal communication, and development of basic helping skills. 3(3-0) F

#### PSY 761 Ethical and Professional Issues

Prerequisite: admission to MS in psychology. An exploration of ethical issues, including values, professional responsibilities, and professional ethics codes. Issues are explored both from ethical and legal perspectives. Current professional issues, such as changing modes of assessment and intervention, are examined. 3(3-0) F

#### PSY 764 Group Psychotherapy

Prerequisite: permission of instructor. An extensive analysis of the factors contributing to the development and maintenance of therapeutic groups in a variety of settings. The prevention and education uses of small groups and small group processes will be included. 3(3-0) D

### PSY 765 Techniques of Individual Psychotherapy

Prerequisite: admission to MS in Psychology program. An in-depth investigation of major strategies of psychotherapy and their efficacy. Emphasis on theoretical bases and critical analysis of comparative research. 3(3-0) S

### PSY 766 Psychopathology

Focus is on the differential diagnosis of behavior disorders, the appropriate use of the multi-axial approach of DSM-IV, and current research. 3(3-0) F

### PSY 767 Behavior Disorders of Childhood

Prerequisite: PSY 766. Course focuses on assessment and treatment of common childhood behavior disorders. The course emphasizes 1) the study of biological, behavioral, cognitive, and systemic variables in the development of childhood behavior disorders; 2) training in multi-axial diagnostic assessment; and 3) interventions. 3(3-0) S

### PSY 768 Personality and Social Development

A survey of the major theoretical and practical issues in the study of personality and social development. The course will focus on application of personality to universal human concerns. 3(3-0) D

### PSY 771 Organizational Health Psychology

Prerequisite: PSY 718. An in-depth consideration of the psychological principles, theory, research, applications and problems associated with occupational stress, safety and health. Topics include personal, organizational, work-related and social antecedents to stress, as well as the short-term and long-term responses to stress. 3(3-0) S

### PSY 772 Performance Assessment

Prerequisite: PSY 716 and PSY 745. An in-depth consideration of theory, research, applications and problems of performance assessment in organizations. Topics include criterion development and validation, models of effectiveness, performance appraisal, methods and sources of evaluation, performance feedback, team performance measurement, and biases in assessment. 3(3-0) D

### PSY 773 Human Factors

Prerequisite: PSY 751. Provides an introduction to human factors engineering (ergonomics) primarily in the workplace. Involves emphasis on analyzing job requirements, human capabilities, human-machine interactions, and safety. 3(3-0) D

### PSY 774 Training and Development

Prerequisite: PSY 716 and PSY 718. An in-depth consideration of theory, research, applications, and problems in the design, conduct and evaluation of training programs in organizational settings. Topics include needs assessment, theories of learning and motivation, transfer of training, and evaluation of training processes and outcomes. 3(3-0) D

### PSY 776 Personnel Selection, Placement and Classification

Prerequisite: PSY 716 and PSY 745. An in-depth consideration of the theory, research, applications, and problems in matching of individual needs, preferences, skills and abilities with the needs and preferences of organizations. Topics include job analysis, theories of human performance, test development and use, alternative selection techniques, EEO law, criterion development, and validation of selection decisions. 3(3-0) D

### PSY 778 Group Processes

Prerequisite: PSY 718. An in-depth consideration of theory, research, applications, and problems in group processes in organizations. Topics include models and typologies of group performance, group decision making, group social influence and ecology, leadership, and team staffing and development. 3(3-0) D

### PSY 779 Topics in Industrial/Organizational Psychology

Prerequisite: PSY 716 and PSY 718. Advanced study of selected topics in I/O psychology . Course requirements include extensive readings and a paper. May be repeated if different topics for a maximum of 9 hours. 3(3-0) D

### PSY 780 Social Psychology

Prerequisite: admission to the MS in Psychology program. Advanced study of interactions and social cognition, including attitude change, person perception, and group dynamics. 3(3-0) S

### PSY 796 Practicum

Prerequisite: admission to the MS in Psychology program. Offers an opportunity for the graduate student to gain additional training through field experiences in research, clinical or organizational settings. Such experience need not be confined to the campus. Variable content course. May be repeated for a maximum of 6 hours. 1-6 F,S

### PSY 797 Directed Research

Prerequisite: admission to MS in Psychology program. Offers an opportunity for the graduate student to gain additional training through guided research. Such research need not be confined to the campus. May be repeated for a maximum of 6 hours. 1-6 F,S

### PSY 798 Internship

Prerequisite: PSY 796 and permission. Supervised fieldwork in a professional psychology setting. Includes a seminar paper as a requirement. 1-6 F,S

### PSY 799 Thesis

Prerequisite: admission to MS in Psychology program. Independent research and study leading to the completion of the thesis. 1-6 D

## Gerontology Courses

### GER 697 Special Topics in Gerontology

Recommended Prerequisite: 12 hours of Gerontology. In-depth inquiry into selected interdisciplinary topics of contemporary interest in gerontology. Variable content course. May be repeated to a total of 6 hours when topic changes. May be taught concurrently with GER 597. Cannot receive credit for both GER 597 and GER 697. 1-3 D

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2012-13 Graduate Catalog

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## School of Social Work

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Email: [swk@missouristate.edu](mailto:swk@missouristate.edu)

Website: <http://www.missouristate.edu/swk/>

Director: Carol Langer

### Faculty

Professors: Susan C. Dollar, Mary Ann Jennings, Joan C. McClennen

Assistant Professors: Michele Day, Darryl R. Haslam, Malikah Marrus

Clinical Faculty: Lisa A. Street

Per-Course Instructors: Richele L. Babbitt, Angela R. Conover, John Getchell, Beverly A. Long, Tressa Moyle, Luther Smith, Mary C. Turner, Cynthia Weaver

Visiting Instructor: Allison O'Dell

Emeritus Professor: John T. Pardeck, Lola Butler

### Programs

#### Master of Social Work

##### Program Administrators:

MSW Program Coordinator

Dr. Darryl R. Haslam

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## Program Description

The MSW program (fully accredited by the Council on Social Work Education) prepares students for advanced social work practice in an area of family health concentration. The student acquires the professional foundation of social work knowledge, values, and skills directed toward an area of concentration, which is family health. Goals of the MSW program include the following.

1. Provide foundation curriculum built upon the liberal arts that emphasizes a generalist perspective in family health and practice with individuals, families, groups, organizations and communities.
2. Prepare graduates committed to appreciating and accepting diversity among various groups of people.
3. Provide the social work profession with graduates who are able to skillfully respond to social problems, social change initiatives and differing service delivery systems that affect family health.
4. Infuse and affirm the values, ethics purpose and goals of the social work profession throughout the educational curriculum.
5. To prepare advanced social work practitioners who understand and accept the responsibility to become and remain proficient in professional practice through lifelong acquisition of knowledge and skills.

The School of Social Work is currently offered at two campuses; one in Springfield and one in Joplin. The Springfield site is located in Pummill Hall at the primary Missouri State University (MSU) campus and is where the main department office of the School of Social Work resides. The Joplin site is located in Webster Hall on the Missouri Southern State University (MSSU) campus. While students at the Joplin site attend classes on the MSSU campus, they are MSU students only. Since it is considered a satellite program offered via Missouri State Outreach program, in-state tuition is available to Joplin students regardless of whether they live in Missouri, Arkansas, Kansas or Oklahoma.

The School of Social Work offers the MSW program in two formats: the Advanced Standing and the Regular programs. Both the Advanced Standing and the Regular programs are offered in full-and part-time sequences.

The Advanced Standing program is designed for students who have a baccalaureate degree in social work (BSW) from a Council on Social Work Education (CSWE) accredited program and who meet the other Advanced Standing program admission requirements. Those who have substantial work experience in the social work field and/or have completed course work in social work (even a minor) but have not graduated with a BSW, are **not** eligible for Advanced Standing. The Advanced Standing program involves 34 credit hours and can be completed in full-time status (three semesters) or part-time status (five semesters). Full-time Advanced Standing students begin their studies during the Summer semester of the admission year, while part-time Advanced Standing students may start in either the Summer or Fall terms.

The Regular MSW program is designed for students who do not have a baccalaureate degree in social work from a program accredited by the CSWE, or who do not meet the other admission requirements for the advanced standing program. The Regular program requires 62 credit hours to earn the MSW degree. The student can complete the program in full-time status (two calendar years) or part-time status (four calendar years or in mixed status (three calendar years). Students accepted for admission into the

regular MSW program begin their studies in the Fall semester of the admission year.

The School of Social Work offers Full-time and Part-time Advanced Standing and part-time Regular Programs on both the Springfield and the Joplin campuses. The full-time Regular program is only offered on the Springfield campus at this time.

## **Master of Social Work Admission Objectives**

Admission to the Master of Social Work program is competitive. All applicants applying on time meeting the minimum standards will be considered for admission. However, merely meeting these standards does not guarantee admission. Only those students showing significant promise for a career in social work will be admitted to the program. The MSW program is committed to providing equal educational opportunities to all students regardless of their economic or social status, race, color, gender, sexual orientation, political orientation, disability, age, veterans' status, or marital or parental status.

The MSW program has two levels of admission.

1. **Full Admission:** Full admission to the School of Social Work MSW program may be granted to a person who meets all criteria and has completed all admission activities.
2. **Conditional Admission:** The MSW program may admit students conditionally for one of two possible reasons: a) on the condition that they complete some activity in the application process prior to beginning their MSW studies (i.e., a prerequisite for an applicant whose other qualifications are considered outstanding), or b) to qualify themselves during the initial phase of coursework (i.e., academic probation). Upon successful completion of this activity or criteria set for conditional admission, the student is considered fully admitted to the program. In this first reason, successful completion of these activities must be accomplished before taking MSW classes (or the offer for admission will be withdrawn).

Conditional admission is only offered in an exceptional set of cases and typically is not offered when more qualified applicants are available who meet the criteria for full admission. Therefore, there is no guarantee that conditional admission may be offered to any student during a particular admission year.

A semester is defined as the summer, fall, or spring in which the student is taking six or more credit hours. All credits accumulated by the end of the semester will be used to determine the student's ability to continue the program.

## **Proficiency Examinations and Life Experience**

The MSW program does not currently allow completion of degree requirements through proficiency examinations except to use CLEP. No credit will be given for life or work experience in lieu of field practicum, foundation courses, elective or family health concentration courses.

## **Transfer Students**

The MSW program accepts transfer credits for required courses only from accredited graduate schools of social work. A maximum of 12 graduate hours from such programs may be accepted if taken at the Foundation level. No transfer course work will be accepted for classes taken at the Concentration level. After a prospective student has been accepted for admission, the Graduate Admissions Committee will determine the amount of acceptable transfer credit (up to the maximum credit allowed) following a review of official transcripts, catalog descriptions, and course syllabi. Primary emphasis is on assessing whether the objectives and content of transfer courses matches those of required Missouri State University courses. Every effort will be made to ensure that students will not repeat content covered in courses completed in other social work programs. Transfer work will not be accepted for courses in which the student earned less than a "B" or that was taken more than 7 years prior to enrolling in the MSW program.

## **Social Work Policies and Procedures for Review of Academic Performance and Grievances**

All social work graduate students are expected to conduct themselves in a professional manner consistent with the National Association of Social Workers Code of Ethics. All policies concerning student academic performance and personal conduct are delineated by University Policies. All related or other departmental policies and procedures are published on the School of Social Work

web site: <http://www.missouristate.edu/swk/>.

## Application Deadlines

The application deadline for full consideration is February 20 (or the next business day if on a weekend) for the year of desired admission for both Advanced Standing and Regular MSW applicants.

Applications must have all application materials turned into and/or received by the School of Social Work and the Graduate College by the application deadline for full consideration. Since the Graduate College materials may take processing time, applicants should complete these requirements at least two weeks before the deadline.

Any application materials submitted after the deadline are not guaranteed a review by the admission committee. While some may be reviewed on a space-available, selective basis, all late applications will receive a lower priority of review or may not be reviewed at all, even if the applicant meets all program admission requirements.

The review of applications typically begins in mid to late January of the year of admission and early applications are often reviewed and ranked shortly after being submitted. However, final notifications of results are not conducted until the primary group of admissions is determined. Applicants may apply to the MSW program either on-line or by printed out, mailed in application forms found on the MSW website under Admission (listed below). Paper applications may be submitted by mailing them to: School of Social Work; MSW Admission Committee, 901 S National Ave, Springfield, MO 65897.

Important Note: Applicants should visit the MSW website ([www.missouristate.edu/swk](http://www.missouristate.edu/swk)) for the latest information and updates related to admissions and to access the online application system.

Admissions to the Regular MSW program involves the “whole person” concept. As such, the admission process takes into account a person’s character and personal fitness to the social work profession, academic preparedness for graduate study and potential to conduct applied social work as evidence by previous employment or significant volunteer experience in human services, the student’s statement of purpose, letters of reference, and other information relevant to the admission decision.

## Admission Requirements for the Regular MSW Program

Applicants to the Regular MSW program must meet the following requirements to be considered for admission to the full-time or part-time MSW program:

1. Applicants must have earned a bachelor's degree from a college or university accredited by a regional agency recognized by the Commission on Recognition of Postsecondary Accreditation.
2. Applicants must have earned an overall GPA of at least 3.00 on a 4.00 scale for all undergraduate course work taken. The GPA for upper-division course work (last 60 hours) in undergraduate classes may be used if higher than the overall GPA and if this GPA is calculated by the Graduate College or a referring college office.

Notes with regard to the GPA:

1. Those with less than a 3.00 who have exceptional qualifications toward becoming a professional social worker are welcome to apply, but are not guaranteed an admission review (based on the number of applications which meet the minimum standards).
2. Graduate students who have completed at least 9 hours of graduate coursework from a particular program of study related to social work may request this GPA to be used in addition to the above.

*Prerequisites:* Applicants must show evidence of a bachelors degree that encompasses a liberal arts perspective with at least 9 credits of social science, child, family or aging studies preferred. A liberal arts perspective is considered a program of study that involves classes from many of all of the following areas: economics, history or geography; natural, applied or life science; humanities, philosophy or literature; writing or other communication studies; mathematics or statistics; and social or human sciences. No more than one grade of “C” or below will be allowed in liberal arts course work.

Applicants must also have taken at least 3 credits in research design and/or statistics, preferably in the social sciences, as evidenced in the departmental application and student transcript.

## Admission Requirements for the Advanced Standing Program

Advanced Standing program applicants must meet the admission requirement listed under #2 for the Regular MSW program and also meet the following requirements:

1. Have earned a bachelor's degree in social work from an undergraduate program accredited by the Council on Social Work Education no longer than seven years prior to admission to the MSW program.
2. Have no more than one grade of "C" and no grades below C in social work major courses.

## Application Materials and Requirements

All MSW program applicants must complete the required application materials and procedures below. Note that certain items must be turned into the School of Social Work (SSW) office, while others must be submitted directly to the Graduate College office.

Items or Procedures for Graduate College office:

1. Submit official Graduate Record Examination (GRE) scores.
2. Submit all prior college transcripts and course work.
3. Complete a Graduate College Application.
4. Pay the required application fee.

Items or Procedures for SSW department office:

1. Complete a department application for the MSW program.
2. Submit a written personal statement essay that conforms to the requirements set forth in the MSW program website.
3. Submit three letters of reference that indicate the applicant's potential to be successful in graduate study and to become an independent, professional social worker.
4. Any other forms or items listed on the website.
5. A campus visit or personal interview on the applicant's own expense on the Springfield campus required prior to admission.

## Academic Standards

Students are expected to meet graduate school requirements for good academic standing of a 3.0 GPA for all graduate course work transferred in or earned at Missouri State University. Students will be dismissed from the program for any of the following academic reasons:

1. Two grades of "C" in any social work courses
2. A grade of "no pass" or "C" in any field practicum (i.e., SWK 640 and SWK 780).
3. A grade below "C" in any social work course

## Research Requirement

A masters research project is required primarily conducted within the requirements of the two research classes in the MSW curriculum. A poster presentation displaying this research is also required.

## Comprehensive Examination

A comprehensive examination, typically administered in the final semester of the MSW program, must be passed by the candidate

before a degree will be granted.

## Degree Requirements for Regular Standing MSW Program

The Regular MSW program requires a minimum of 62 hours of graduate credit plus any prerequisite courses. The required courses by curriculum level are listed as follows for both full-time and part-time options. The first phase in the program is the Foundation Level and involves courses taken in the first year (if full-time status) or first and second years (if part-time). These courses must be completed before enrolling in the second level of classes. The second phase of course work is the Concentration Level and involves courses taken in the second year (if full-time status) or third and fourth year (if part-time). Typical class schedules by semester and year are found on the School of Social Work website for both full-time and part-time students: <http://www.missouristate.edu/swk/>

### Required Courses for Regular Standing MSW Program:

#### ***Foundation Level Courses:***

Course Code	Course Title	Credit Hours
<a href="#"><u>SWK 705</u></a>	Human Behavior in the Social Environment	3 hrs
<a href="#"><u>SWK 710</u></a>	Foundations in Social Work Practice with Individuals	3 hrs
<a href="#"><u>SWK 715</u></a>	Social Welfare Policy and Services	3 hrs
<a href="#"><u>SWK 725</u></a>	Foundations in Social Work Practice with Families and Groups	3 hrs
<a href="#"><u>SWK 726</u></a>	Foundations in Social Work Practice with Communities and Organizations	3 hrs
<a href="#"><u>SWK 730</u></a>	Perspectives in Human Diversity and Societal Systems	3 hrs
<a href="#"><u>SWK 740</u></a>	Social Work Field Practicum I (450 hours)	10 hrs
	Level Total	28 hrs

#### ***Concentration Level Courses:***

Course Code	Course Title	Credit Hours
<a href="#"><u>SWK 746</u></a>	Foundations in Social Work Research	3 hrs
<a href="#"><u>SWK 750</u></a>	Human Behavior and Family Systems	3 hrs
<a href="#"><u>SWK 754</u></a>	Perspectives on Individual and Family Health Assessment	3 hrs
<a href="#"><u>SWK 755</u></a>	Family Health Social Work Practice I	3 hrs
<a href="#"><u>SWK 756</u></a>	Family Health Social Work Practice II	3 hrs
<a href="#"><u>SWK 760</u></a>	Family Health Policy	3 hrs
<a href="#"><u>SWK 780</u></a>	Social Work Field Practicum II (525 hours)	10 hrs
<a href="#"><u>SWK 797</u></a>	Applications in Social Work Research	3 hrs
	Social Work Elective	3 hrs
	Level Total	34 hrs
	Degree Total	62 hrs

#### ***Current Elective Courses in the MSW Program:***

Course Code	Course Title	Credit Hours
<a href="#"><u>SWK 602</u></a>	Rural Health (online)	3 hrs
<a href="#"><u>SWK 696</u></a>	Health Literacy in the Human Services (online)	3 hrs

<a href="#"><u>SWK 699</u></a>	Special Topics in Social Work Practice	3 hrs
<a href="#"><u>SWK 741</u></a>	Family Health and Family Violence	3 hrs
<a href="#"><u>SWK 742</u></a>	Family Health and Substance Abuse	3 hrs
<a href="#"><u>SWK 743</u></a>	Management and Program Development In Human Services (online)	3 hrs

## Required Courses for Advanced Standing Program

The Advanced Standing MSW degree requires a minimum of 34 semester hours of graduate credit and involves the classes described above as the Concentration Level of course work.

### Concentration Level Courses:

Course Code	Course Title	Credit Hours
<a href="#"><u>SWK 746</u></a>	Foundations in Social Work Research	3 hrs
<a href="#"><u>SWK 750</u></a>	Human Behavior and Family Systems	3 hrs
<a href="#"><u>SWK 754</u></a>	Perspectives on Individual and Family Health Assessment	3 hrs
<a href="#"><u>SWK 755</u></a>	Family Health Social Work Practice I	3 hrs
<a href="#"><u>SWK 756</u></a>	Family Health Social Work Practice II	3 hrs
<a href="#"><u>SWK 760</u></a>	Family Health Policy	3 hrs
<a href="#"><u>SWK 780</u></a>	Social Work Field Practicum II (525 hours)	10 hrs
<a href="#"><u>SWK 797</u></a>	Applications in Social Work Research	3 hrs
	Social Work Elective	3 hrs
	Degree Total	34 hrs

## Social Work Courses

### SWK 602 Rural Health

This course offers a study of health care delivery in rural communities. It includes theoretical foundations, cultural considerations and specific characteristics of rural environments and people. Local and international perspectives will be explored. This course has a community experience component. Identical with NUR 502. Cannot receive credit for both SWK 502 and NUR 502. May be taught concurrently with SWK 502. Cannot receive credit for both SWK 502 and SWK 602. 3(3-0) F,S

### SWK 696 Health Literacy in the Human Services

Prerequisite: permission of instructor. This online course offers an interdisciplinary approach to understanding functional health literacy and how the public's literacy skills affect interactions with health and human services professionals. Includes an examination of the data for national and international literacy levels and populations at risk for low literacy; research on health literacy; assessment tools; and practical techniques for addressing literacy issues in spoken and written communications at the practitioner and organizational levels. May be taught concurrently with SWK 696. Cannot receive credit for both SWK 696 and SWK 599. 3(3-0) S

### SWK 698 Ethical Dimensions of Social Work

Examines the ethical dimensions of social work in the context of ethical issues related to practice; including tensions intrinsic to the mission of social work, and examination of various philosophical frameworks and codes of ethics, analysis of larger systems that create and sanction specific values and ethics, legal issues, and decision-making strategies. May be taught concurrently with SWK 598. Cannot receive credit for both SWK 598 and SWK 698. 3(3-0) D



## SWK 699 Special Topics

Selected topic of advanced content in social work, relevant to fields of practice or practice methodologies. May be repeated to a total of 6 hours as topics change. May be taught concurrently with SWK 597. Cannot receive credit for both SWK 597 and SWK 699. 1-3 D

## SWK 705 Human Behavior and Social Environment

Prerequisite: admission to MSW program. Content on life span development and the influence of various systems on the individual. 3(3-0) F

## SWK 710 Foundations in Social Work Practice with Individuals

Prerequisite: admission to MSW program. Within a generalist framework, course provides an ethically-based, theory-driven, culturally competent approach to delivering professional social work services to individuals with varied issues and practice settings. 3(3-0) F

## SWK 715 Social Welfare Policy and Services

Prerequisite: admission to MSW program or permission. Covers the historical development, philosophical orientation, and analysis of social welfare policy and services in the United States. Examines social welfare policy in multiple areas. 3(3-0) F

## SWK 725 Foundations in Social Work Practice with Families and Groups

Prerequisite: admission to MSW program. Within a generalist framework, this course focuses on basic skills and concepts related to social work practice with groups and families. Topics include the basic skills required to facilitate group process and tasks, contrast between non-kin groups and family sessions, and strategies for working with families. 3(3-0) F

## SWK 726 Foundations in Social Work Practice with Communities and Organizations

Prerequisite: admission to MSW program. Uses social work methods to focus on the dynamics associated with organizational and community generalist practice. This course provides a knowledge base (i.e., theory, research, and practice wisdom), values, and practice skills for the generalist social work profession. Concentration will be on social work practice occurring with organizations and communities. 3(3-0) S

## SWK 730 Perspectives in Human Diversity and Societal Systems

Theoretical perspectives and research findings on various populations at risk and the role of societal institutions in perpetuating social and economic injustice. 3(3-0) S

## SWK 740 Social Work Field Practicum I

Prerequisite: admission to MSW program; and completion of, or concurrent enrollment with, all other foundation courses. Supervised social work experience in a social agency in the community with accompanying field instructional seminar. Seminar enhances student's integration of coursework learning practice and skills; examines student experiences in field agency. Students must complete 450 hours in placement; practicum liability insurance fee required. 3-10 S

## SWK 741 Family Health and Family Violence

Enhances students' understanding of the theories, policies, practices, and interventions related to family violence. 3(3-0) D

## SWK 742 Family Health and Substance Abuse

This course provides an opportunity for the students to understand the problems of alcohol and drug use and dependence, and their impact on family health. 3(3-0) D



### SWK 743 Management and Program Development in Human Service

Develop knowledge and skills for effective supervisors and administrators in human service organizations. Students will also learn grant proposal writing and develop an understanding of their management style and philosophy. 3(3-0) D

### SWK 746 Foundations in Social Work Research

Prerequisite: admission to MSW program; and Advanced Standing or completion of all foundation coursework; or permission of department. Teaches foundational knowledge and skills in key social work research methods; reviews research concepts and tools most frequently encountered by the family-focused social work practitioner. 3(3-0) Su

### SWK 750 Human Behavior and Family Systems

Prerequisite: admission to MSW program; and Advanced Standing or completion of all foundation coursework. Examines the family within an ecosystemic context and provides key perspectives related to family development and how individual family member development affects and is affected by the family system. Also provides key foundations in Family Health Social Work Practice. 3(3-0) Su

### SWK 754 Perspectives on Individual and Family Health Assessment

Prerequisite: SWK 750; and admission to MSW program. Advanced topics related to individual and family-based assessment systems and tools. Provides basic awareness of when to use various individually-focused assessment (e.g., DSM-IV) and family focused assessment (e.g., FAD). 3(3-0) F

### SWK 755 Family Health Social Work Practice I

Prerequisite: SWK 750; and admission to MSW program. Key theories and skills related to advanced social work practice with couples and families. Incorporates role-plays and/or class exercises to practice key family interaction skills. 3(3-0) F

### SWK 756 Family Health Social Work Practice II

Prerequisite: SWK 754 and SWK 755; and admission to MSW program. Advanced assessment and family-centered practice interventions related to the family health perspective. Discusses problem identification and intervention for family-focused practice issues; also advanced practice theory integration and application. 3(3-0) S

### SWK 760 Family Health Policy

Prerequisite: SWK 750; and admission to MSW program. Assists students in understanding how policies affecting family health are designed. Provides an analysis of the family health care delivery systems in the United States and other countries. 3(3-0) F

### SWK 780 Social Work Field Practicum II

Prerequisite: admission to MSW program; and field coordinator approval; and completion of, or concurrent enrollment in, all other concentration courses. Supervised social work experience in a social service agency in the community with accompanying field instructional seminar. Seminar enhances student's integration of coursework learning and practice skills; examines student experiences in field agency. Students must complete 525 hours in placement; practicum liability insurance fee required. Supplemental course fee. 3-10 S

### SWK 797 Applications in Social Work Research

Prerequisite: SWK 746; and admission to MSW program. Teaches advanced knowledge and skills in key social work research methods; reviews key research applications in social work practice settings, including evaluation of practice and program evaluation. Integration between research projects and student's professional interests in the field are encouraged. 3(3-0) F



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Graduate College  
2012-13 Graduate Catalog

First Edition  
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## Sports Medicine and Athletic Training

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### Faculty

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### Programs

#### Master of Science in Athletic Training

Tona Hetzler, Program Director

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#### Program Description

The Master of Science in Athletic Training degree is designed to prepare certified athletic trainers to function in advanced athletic training roles within an evolving health care delivery system. Students will explore topics directly related to the program's point of distinctiveness: Advanced Clinical Skills in Orthopedic Rehabilitation and Athletic Training Leadership.

#### Admission Requirements

Completed applications will be reviewed beginning February 1st for admission the following fall, and will continue until the class is filled. To be considered for admission to the MSAT program, a prospective student must apply to both the Graduate College and the Department of Sports Medicine and Athletic Training graduate program. See admission processes and requirements in Graduate College section of the Graduate Catalog.

#### Full Admission to the MSAT Program

Full admission to the MSAT program will be based on:

1. Eligible for acceptance into the Graduate College at Missouri State University.
2. Submission of an application to the graduate program in Sports Medicine and Athletic Training.
3. A one-page essay that addresses the applicant's professional career goals and how the MSAT program will help accomplish these goals.
4. A cumulative GPA of no less than 3.00 on a 4.00 scale in the last 60 hours of college course work attempted. Consideration may also be given to an applicant whose GPA falls below the minimum if a strong GRE score has been earned or if other evidences of potential for academic success in graduate education can be presented. Graduate work will be considered on an individual basis.
5. Submission of Graduate Record Examination (GRE) scores.
6. BOC certification, eligible for the BOC or an equivalent athletic training credential (e.g., Canadian Certified Athletic Therapist).
7. Licensure as an Athletic Trainer in good standing in Missouri or eligible for licensure in Missouri.
8. A baccalaureate degree from an accredited college or university - including a Statistical Methods course (PSY 200 or equivalent).
9. Evidence of current physical examination including a TB skin test or chest X-ray. Matriculating students must also demonstrate evidence of good physical health and have up-to-date immunizations (MMR, tetanus, and a complete Hepatitis B series).
10. Provide evidence of current professional liability insurance. This is required if a student is practicing as an ATC while in school and is NOT covered by an employer's liability insurance. Clinical experiences required as part of the curriculum are covered by a university insurance policy.
11. Provide evidence of current Professional Rescuer and AED certification.
12. Applicants must have the capacity for performance of the technical functions and tasks required of an athletic trainer.
13. Students will be required to initiate and pay for any additional security checks and drug screening required by clinical agencies, professional memberships and licensure, as well as any other cost associated with their program of study. Students must submit drug screening test and a criminal record check and receive response that the applicant has not been convicted of any crime pursuant to Section 660.317 RSMO or other disqualifications that would prohibit licensure as an Athletic Trainer. Students who fail these checks or procedures will be subject to further review by the Department of Sports Medicine and Athletic Training. This may result in dismissal from the MSAT program.
14. The National Athletic Trainers' Association has a Professional Code of Ethical Conduct. All athletic training students will adhere to this Code and respect the rights and dignity of all individuals.

Students with complete application materials for full admission will be reviewed by the Department of Sports Medicine and Athletic Training. Selection of students for the MSAT program is selective and competitive due to limited resources. Students who are not accepted into the program may apply for the next application deadline.

## Probational Admission to the Program

Probational admission may be granted to an applicant that does not meet one or more of the above program admission requirements.

1. During the probationary period, the student shall receive no course grade lower than a B for the first nine hours of graduate course work attempted.
2. Students admitted that have not passed the BOC examination and earned the ATC credentials are considered a probational admission candidate and have one semester to earn the ATC credentials. Students that are not successful on the BOC examination within the first semester of the program will be dismissed. Students not BOC certified will NOT be eligible for a graduate assistant position or any other employment opportunities that require BOC certification.

## Retention Requirements

After admission into the MSAT program, a student must achieve the following for retention in the program:

1. Maintain a GPA of 3.00, with no more than 9 semester hours of graduate work below a grade of "B", and no hours of graduate work below a "C".
2. Demonstrate acceptable levels of maturity and integrity, as well as behaviors and attitudes normally expected of health care professionals.
3. Demonstrate acceptable professional progression in application of skills and knowledge.
4. Maintain current NATA, MAATA, and MoATA membership and remain in good standing with the BOC.
5. Maintain current AT license and be in good standing with the Missouri Board of Health Arts.
6. Maintain current liability insurance.
7. Maintain current professional rescuer and AED certification.
8. Students working on thesis or non-thesis project must remain enrolled in ATC 799 or ATC 797 until the thesis or non-thesis project is completed.
9. Receive satisfactory or higher ratings on all clinical evaluations - all ATC courses have a required clinical/application based requirement as part of the course.

Students who fail to meet the retention criteria may:

1. Be placed on academic or clinical probation in the MSAT program, or
2. Be dismissed from the program, based on the judgment of the majority of the Sports Medicine and Athletic Training department graduate faculty. Students on clinical probation must receive a rating of "satisfactory" or higher on all remaining AT clinical evaluations. Students who fail to meet the probationary criteria or are dismissed from the program are not eligible for readmission into the MSAT program. Students have the right to follow the University's appeal process on any disciplinary sanction received.
3. Students should refer to the Missouri State University Sports Medicine and Athletic Training *Handbook for Graduate Athletic Training Students* for additional policies and procedures of the Sports Medicine and Athletic Training Department.

## Degree Requirements (Minimum of 36 hours)

1. Academic Advisor. After admission to the graduate program, the student will be assigned an academic advisor who will supervise the student's graduate program and chair the candidate's graduate committee.
2. Core Course (33-36 hours)

Course Code	Course Title	Credit Hours
<a href="#"><u>ATC 612</u></a>	Functional Anatomy	2 hrs
<a href="#"><u>ATC 620</u></a>	Leadership Concepts in Athletic Training	3 hrs
<a href="#"><u>ATC 632</u></a>	Manual Therapy Techniques	2 hrs
<a href="#"><u>ATC 710</u></a>	Seminar in Athletic Training (3 courses)	3 hrs
<a href="#"><u>ATC 723</u></a>	Movement Pattern Assessment	3 hrs
<a href="#"><u>ATC 732</u></a>	Advanced AT Research	2 hrs
<a href="#"><u>ATC 733</u></a>	Corrective Exercise Techniques/Movement Pattern Interventions	3 hrs
<a href="#"><u>ATC 743</u></a>	Advanced Therapeutic Interventions	3 hrs
<a href="#"><u>ATC 797</u></a>	Non-thesis Project OR	3 hrs
<a href="#"><u>ATC 799</u></a>	Thesis	6 hrs

<b><u>BMS 707/PTE 707</u></b>	Medical Human Anatomy	6 hrs
<b><u>PSY 627</u></b>	Multivariate Statistical Methods for the Behavioral Sciences	3 hrs

3. Elective Courses. Students must work directly with their advisor and committee to determine which elective courses should be completed to strengthen their plan of study and compliment their thesis or non-thesis project. Courses must be approved by the student's committee to be counted toward the degree completion.

4. Research Requirement. Completion of a thesis or a non-thesis project approved by the advisor or thesis committee.

*Thesis Option.* Six (6) credit hours in **ATC 799** Thesis will count toward the degree. A formal oral presentation and defense of the thesis is required. The thesis must be approved by the student's Advisor Committee and the Dean of the Graduate College before the degree is granted.

*Non-thesis Project.* Three (3) credit hours in **ATC 797** Non-Thesis Project will count toward a degree. A formal oral presentation of the project is required. The seminar paper must be approved by the student's Advisory Committee before the degree is granted.

5. Comprehensive Examination. A comprehensive examination administered during the student's final semester of course work must be passed by the candidate before a degree will be granted.

## Athletic Training Courses

### ATC 612 Functional Anatomy

This course will address the neuromotor coordination and integration of human movement. Concepts of brain mapping, the visual and vestibular systems, movement, and disassociation will be addressed. 2(0-4) F

### ATC 620 Leadership Concepts in Athletic Training

This course covers an examination and application of leadership and professional theories and the attributes, behaviors, and values necessary for leadership in health professions (specially to aspects of the practice of athletic training.) The organization and function of professional associations, activities that serve the professional community and service to the public, the AT's role in healthcare delivery systems, outcome measurement, the role of evidence-based practice in the AT profession, cultural competence, and medical legal situations will also be covered. 3(3-1) S

### ATC 632 Manual Therapy Techniques

Detailed analysis and application of manual therapy techniques for treating musculoskeletal pathologies involving the spine and upper and lower extremities. 1(0-3) S

### ATC 710 Seminar in Athletic Training

Prerequisite: permission of instructor. Provides a forum for topics germane to the clinical practice settings and transition to professional practice. Topics of interest will cover areas such as performance enhancement principles, diagnostic assessment techniques, surgical procedures, pediatric athletic medicine, clinical education principles, and current professional topics. May be repeated for a maximum of 3 hours. 1(0-2) D

### ATC 723 Movement Pattern Assessment

Introduction of fundamental movement patterns of the body and how to assess these movement patterns. Concepts of neuromotor human development and how these relate to the learning/patterning of these fundamental movement patterns. 3(2-2) S

### ATC 732 Advanced AT Research

Advanced research practicum in which students deepen their understanding and enhance their research abilities in order to contribute to the advancement of the discipline and the athletic training profession. Course will explore topics of research design and research methods and provide introduction to disability models and outcomes research as the foundations to evidence-based practice. Introduction on the selection and use of general and specific outcomes instruments will be given, and students will implement their knowledge of outcomes measurement into clinical practice. 2(2-0) F

#### ATC 733 Corrective Exercise Techniques/Movement Pattern Interventions

This course will cover the corrections of impairments and compensations to the fundamental movement patterns. 3(2-2) F

#### ATC 743 Advanced Therapeutic Interventions

Advanced concepts and evidence-based principles of rehabilitation programs. Enhancement of previously learned therapeutic exercise techniques and integration of therapeutic modalities and therapeutic exercise, including objective and functional goal setting and evaluation for appropriate progression and expedited return to activity. 3(2-2) S

#### ATC 797 Non-thesis Project

Prerequisite: ATC 732 and permission of project advisor. Active participation in the ongoing research and/or clinical activities of athletic training faculty or clinical experience supervisor. Culminates in a presentation of an extensive scholarly paper. Must be repeated for a minimum of 3 hours. 1-3 F,S,Su

#### ATC 799 Thesis

Prerequisite: ATC 732 and permission of research advisor. Demonstration of the capacity for research and independent thought culminating in a thesis. Must be repeated for a minimum of 6 hours. 1-6 F,S,Su

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