### Course Descriptions

**MT 0401 (S)**  
**Clinical Chemistry**  
Analytical and theoretical aspects of the clinical biochemistry of body fluid constituents utilizing both manual and instrumental techniques, including automation and special procedures. Five hours lecture, twenty hours clinic/lab per week.

**MT 0402 (S)**  
**Clinical Microscopy**  
Principles and techniques of the physical, chemical and microscopic examination of urine and other excreta as related to disease processes. One hour lecture, clinic by arrangement.

**MT 0403 (F)**  
**Clinical Hematology**  
The cellular elements of blood and bone marrow; theory of cell production, release and survival; morphological characteristics of normal and abnormal cells; quantitative and qualitative abnormalities. Principles and techniques involved in the study of hemostasis, blood coagulation and hemorrhagic disorders. Three hours lecture, twelve hours clinic/lab per week.

**MT 0404 (S)**  
**Clinical Serology-Immunology**  
The science of immunity including antibody development, principles of antigen-antibody interactions and techniques of serological testing for various disease states. Three hours lecture, twelve hours clinic/lab per week.

**MT 0405 (S)**  
**Clinical Microbiology**  
Sterile technique, methods of handling and inoculating specimens containing pathogenic micro-organisms, isolation and identification of pathogenic micro-organisms, laboratory tests in chemotherapy and diagnostic bacteriology, mycology and parasitology. Four hours lecture, twelve hours clinic/lab per week.

**MT 0406 (S)**  
**Clinical Immunohematology-Blood Bank**  
Blood group systems and the immune response. Methods of cross matching, antibody screening and phenotyping. Administrative safeguards and legal aspects of blood banking. Proper clinical utilization of blood components. One hour lecture, eight hours clinic/lab per week.

**MT 0407 (S)**  
**Special Topics in Medical Technology**  
Lecture and/or clinical practice in the areas of in-service education, management and supervision, research and development and principles and techniques of the instructional process. Lecture and labs to be arranged.

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**Faculty**  
Linder - Director, Ayton, Bush, Corcoran, Eller, Haggard, Hart, Hempsmyer, Jackson

**Mission**  
Provide contemporary nursing education at the undergraduate and graduate levels. Improve healthcare in culturally diverse local and global communities through excellence in nursing education, practice and service.

**Nursing Program**  
The Bachelor of Science degree Nursing Program provides intensive preparation for the first-time entering student, baccalaureate degree graduate, licensed practical nurse seeking licensure as a registered nurse and for the registered nurse pursuing baccalaureate education in the nursing discipline.

The program is based on the Betty Neuman Systems Model, emphasizing Person, Health, Environment and Nursing. General Education Requirements and required support courses augment nursing courses in preparing a professional nurse who is able to function at the client’s side in a diverse health-care delivery system.

The program has full approval by the Missouri State Board of Nursing, PO Box 656, Jefferson City MO, (573) 751-0681.

**Application for registered nurse licensure in Missouri**  
According to Section 335.066 Missouri Nursing Practice Act (1-16), granting of the nursing baccalaureate degree does not guarantee eligibility to sit for the licensure examination or guarantee issuance of a license to practice nursing in the state of Missouri. For eligibility requirements to apply, write the National Council Licensure Examination for Registered Nurses (NCLEX-RN) as specified in section 335.046-1 of the Missouri Nursing Practice Act. In addition, the applicant should: 1) be of good moral character; 2) have completed high school or equivalent; 3) have successfully completed basic professional curriculum in accredited school of nursing. Section 335.086, Missouri Nursing Practice Act (1-16), provides rules for denial, revocation or suspension of license and grounds for civil immunity. The Board may refuse to issue any certificate of registration or authority and permit or license stated in subsection two of this section. Detailed information may be obtained through the Missouri State Board of Nursing Website – www.pr.mo.gov/nursing.asp

Completion of the nurse education program does not guarantee eligibility to take the licensure examination.

The program is nationally accredited by The National League for Nursing Accrediting Commission (NLNAC), 3343 Peachtree Road NE Suite 850, Atlanta, GA 30326, Phone 404-975-5000 and Fax 404-975-5020.

**Department of Nursing Program Objectives**

- Offer a nationally accredited Baccalaureate Degree in Nursing.
- Enhance higher order thinking, communication, research and therapeutic interventions in the practice of professional nursing.
- Promote lifelong learning activities for personal and professional development.
- Furnish a foundation for management and leadership roles in nursing.
- Prepare graduates to use Standards of Clinical Nursing Practice in a variety of settings.
- Provide a foundation for graduate education studies in nursing.
• Promote empathy for the values and perspectives of diverse cultures including an awareness of international and multicultural influences in nursing.

Graduate Outcomes
Upon completion of the program the graduate will:
• Apply the Neuman systems model in the promotion of the person’s optimal systems stability.
• Promote health by empowering the person through health education.
• Provide self-directed contemporary health care through application of the nursing process.
• Practice within the professional standards of care.
• Use current technologies in providing culturally sensitive care through primary, secondary and tertiary prevention.
• Manage health care delivery through coordination, collaboration and delegation.
• Integrate communication strategies in interacting with the person.
• Apply nursing and health related research to nursing practice.

Admission Criteria
1. Continuous enrollment, readmission or admission to the University as a transfer student.
2. Cumulative GPA of 2.5 minimum based upon completion of freshman and sophomore courses listed in the suggested order of study.
3. Completion of the following required support courses with a grade of ‘C’ or higher:
   BIO 121  Anatomy and Physiology I
   BIO 221  Anatomy and Physiology II
   BIO 231  General and Medical Microbiology
   CHEM 120  Chemistry for Allied Health Sciences
   BIO 308  Pathophysiology
   KINE 385  Nutrition for Human Development
4. All courses from the Suggested Order of Study must be completed prior to entering the nursing major at the junior level.
5. Criminal Record check
6. State of Missouri Caregiver Background Screening
7. Drug/Alcohol Screen
8. Physical examination with health requirements documented
9. Non-refundable application fee

Admission of Registered Nurses (RNs)
Registered nurses are admitted to the University as graduates of Southern’s Associate Degree Nursing Program or as transfer students. In addition to the program admission requirements, registered nurses must also meet the following requirements:
1. Graduation from a state-approved and National League for Nursing Accrediting Commission (NLNAC) accredited associate degree or diploma nursing program. Registered nurse applicants from non-NLNAC
2. Current registered nurse licensure or eligibility in the state of Missouri.

3. Upon successful completion of NURS 301 Transitions in Nursing, 3 credit hours, validation of 31 credit hours of nursing knowledge will be transcribed for credit as follows:

NURS 310 Health Assessment and Technologies .............. 5 cr
NURS 330 Adult Nursing I .................................. 3 cr
NURS 335 Adult Nursing II ................................ 4 cr
NURS 340 Nursing Care of the Childbearing Family ......... 4 cr
NURS 360 Mental Health Nursing .......................... 4 cr
NURS 380 Nursing Care of the Child and Family .......... 5 cr
NURS 400 Complex Nursing .................................. 6 cr

An assessment fee per credit hour will be charged to the student’s account.

4. The RN has an option to challenge NURS 305 Pharmacology in Nursing (3 credit hours) and NURS 370 Gerontologic Nursing (3 credit hours) through departmental examination. An assessment fee per credit hour will be charged to the student’s account.

Admission of Licensed Practical Nurses (LPNs)
Licensed Practical Nurses (LPNs) are admitted to the University as first-time (generic) or transfer students. LPN applicants must meet all University and program requirements for admission. The LPN has the option to challenge 11 credit hours for NURS 305 Pharmacology in Nursing, NURS 310 Health Assessment and Technologies, and NURS 370 Gerontologic Nursing through departmental examination. An assessment fee per credit hour will be charged to the student’s account.

Transfer Policy for Students from a Baccalaureate Degree Nursing Program
1. All program admission criteria must be met.

2. A letter of reference is required from the Dean or Director of the nursing program previously attended stating the student left in good standing and is eligible for readmission.

3. Transfer courses will be evaluated for course equivalency at Missouri Southern on an individual basis.

4. Nursing courses with a clinical component must be fully met.

5. Transfer is based on space availability.

Special Fees
In addition to all established fees for University students, special laboratory fees are assessed for:

- Fall semester Junior Year – NURS 310 Nursing Assessment and Technologies ........................... $635.00
- Spring Semester Junior Year – NURS 380 Nursing Care of the Child and Family .............................. $350.00
- Fall semester Senior Year – NURS 430 Advanced Health Assessment ........................................ $635.00
- Spring Semester Senior Year – NURS 450 Community Health Nursing ........................................ $440.00

Other costs incurred during the program include, but are not limited to: required nurse bag equipped for courses, uniforms, pins, standardized examination fees, graduation fees, licensing examination fees, hepatitis series, current immunizations, etc. An estimated cost sheet for nursing students is available in the Department of Nursing.

Bachelor of Science Degree Nursing
Nursing Applicant NU01
Major Code NU00

General Educations Requirements (p. 45) 46-47* ............ 32
Nursing Major Requirements ........................................ 94-97
(See course descriptions for prerequisites)

BIO 121 Anatomy and Physiology I* .......................... 4
CHEM 120 Chemistry for Allied Health Sciences* .... 5
OR
CHEM 151 General Chemistry I* ................................. 5
PSY 100 General Psychology* ........................................ 3
ECON 180 American Economic System* .................. 3

Pre-Nursing Requirements
BIO 221 Anatomy and Physiology II ............................ 5
BIO 231 General and Medical Microbiology ............... 5
BIO 308 Pathophysiology ........................................... 4
KINE 385 Nutrition for Human Development .............. 3
OR
DH 310 Nutrition .................................................. 3
CIS 105 Introduction to Microcomputer Use ............... 3
OR
MM 237 Using Information Systems ......................... 3
OR
CIS 305 Microcomputer Applications ....................... 3

Nursing Major Requirements
NURS 301 Transitions in Nursing (RNs only)* ............... 3
NURS 305 Pharmacology in Nursing# ......................... 3
NURS 310 Health Assessment and Technologies+ ........ 5
NURS 330 Adult Nursing I+ ....................................... 3
NURS 335 Adult Nursing II+ ...................................... 4
NURS 340 Nursing Care of the Childbearing Family+ .... 4
NURS 360 Mental Health Nursing+ .............................. 4
NURS 370 Gerontologic Nursing (WI)^ ....................... 3
NURS 380 Nursing Care of the Child and Family+ ....... 5
NURS 400 Complex Nursing+ .................................... 6
NURS 420 Nursing Ethics (WI) .................................. 3
NURS 430 Advanced Health Assessment ..................... 3
PSY 320 Applied Statistics ......................................... 3
OR
MATH 310 Elementary Statistics (3)
OR
GB 321 Business Statistics (3)
OR
SOC 305 Social Science Statistics ............................ 3
NURS 450 Community Health Nursing ....................... 5
NURS 460 Nursing Research (WI) ............................... 3
NURS 470 Nursing Management and Leadership ......... 5
Total ................................................................. 126-129

* Satisfaction the General Education Requirements. MATH 130 is required for General Education Requirement Area C.
#RNs only. Complete NURS 301 Transitions in Nursing with a grade of “C” and receive credit for NURS 310, 330, 340, 350, 360, 370, 400, and 400.
^Credit by department examination for Licensed Practical Nurses (fee assessed).
#Credit by department examination for Registered Nurses (fee assessed).

Minors
Minors in supportive disciplines are available to nursing students. See requirements for the following suggested (not exclusive) minors: Informatics, Business, Spanish, etc.
Americans with Disabilities Act Implications
Students are required to have completed a physical examination/health verification after conditional admission to the nursing program. Students will be required to demonstrate physical and/or emotional fitness to meet the essential requirements of each course in the program. Such essential requirements include freedom from communicable diseases, the ability to perform certain physical tasks and suitable emotional fitness. Any appraisal measures used to determine such physical and/or emotional fitness will be in compliance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. Core performance standards for admission and progression which comply with the Americans with Disabilities Act of 1990 are available in the office of the Department of Nursing.

For additional information contact:
Department of Nursing
Phone: 417.625.9322
Email: nursing@mssu.edu

Course Descriptions

NURS 0301  (F)  3 hrs. cr.
Transitions in Nursing
This course will assist the Registered Nurse student to examine the role of a baccalaureate degree prepared nurse in a changing health-care environment. The student will have the opportunity to integrate current nursing practice, philosophy, concepts and theories into his/her professional practice. Offered online only. Prerequisite: Admission to the nursing program and registered nurse licensure.

NURS 0302  (F,Demand)  3 hrs. cr.
Herbal and Complementary Therapies
Herbal and Complementary Therapies is a course designed to enhance the learner’s understanding and appreciation of universal alternative and holistic approaches to health. “Nontraditional” treatment methods that comprise complementary therapies include herbal medicine, homeopathy, naturopathy, therapeutic massage and acupuncture. One 3-hour lecture per week. Prerequisite: BIO 101 General Biology.

NURS 0305  (F)  3 hrs. cr.
Pharmacology in Nursing
This course is designed to introduce the nursing student to essentials of basic and clinical pharmacology in preparation for application with patient populations in a clinical setting. The student will focus on the commonalities of drug classifications related to the physiologic systems of clients during the life span. Prerequisite: Admission to the nursing program and concurrent with NURS 310 and NURS 320. (Concurrent enrollment in NURS 301 Transitions in Nursing is required for RNs.)

NURS 0310  (F)  5 hrs. cr.
Health Assessment and Technologies
Incorporates a systematic approach to basic health assessment and application of basic nursing interventions for the person with limited variances in health. Three hours lecture and six hours lab per week. Prerequisite: Admission to the nursing program and concurrent with NURS 305 and NURS 320.

NURS 0330  (F)  3 hrs. cr.
Adult Nursing I
This course focuses on beginning concepts in nursing practice and variances in health of adults with common health problems. Emphasis is on application of the nursing process in secondary prevention. Four (4) hours lecture per week for the first half of term of the fall semester concurrent with nine (9) hours clinical per week for the first half of term of the fall semester. Prerequisite: Admission to the nursing program and concurrent with NURS 305 and NURS 310. This course precedes NURS 335 that is offered in the second half of term of the fall semester.

NURS 0335  (F)  4 hrs. cr.
Adult Nursing II
NURS 335 builds on the concepts of NURS 330 and expands on nursing practice regarding variances in health of adults with common health problems. Emphasis is on application of the nursing process in secondary prevention. This course is taught in the second half of term of the fall semester with four (4) hours lecture per week, and nine (9) hours clinical per week for the second half of term of the fall semester. Prerequisite: Admission to the nursing program, successful progression from NURS 330 with minimum grade of “C” and concurrent with NURS 305 and NURS 310.

NURS 0340  (S)  4 hrs. cr.
Nursing Care of the Childbearing Family
Focuses on health promotion of the developing family and nursing care of the maternity client with variances of health. Four (4) credit hours. Three (3) hours of lecture and three (3) hours clinical per week. Prerequisites: NURS 305, NURS 310, NURS 330 and NURS 335 with a minimum GPA of 2.5 and concurrent with NURS 360, NURS 370, and NURS 380.

NURS 0360  (S)  4 hrs. cr.
Mental Health Nursing
Focuses on assessment, promotion of mental health and care of the person with variances in mental health. Use of therapeutic communication and the nurse-client relationship are emphasized. Two hours lecture, six hours of clinical per week. Prerequisites: Minimum 2.5 GPA in prior semester in NURS 305, NURS 310, NURS 330 and NURS 335 with minimum GPA of 2.5 and concurrent with NURS 340, NURS 370 and NURS 380.

NURS 0370  (S)  3 hrs. cr.
Gerontologic Nursing  (Writing Intensive)
Focuses on the normal aging process and common health variances of the older person. Three hours lecture per week. Prerequisites: Minimum 2.5 GPA in prior semester in NURS 305, NURS 310, NURS 330 and NURS 335 and concurrent with NURS 340, NURS 360 and NURS 380 or RN status with permission of instructor.

NURS 0380  (S)  5 hrs. cr.
Nursing Care of the Child and Family
Focuses on health promotion of the developing family and nursing care of the pediatric client with variances of health. Five (5) credit hours. Three (3) hours of lecture and six (6) hours of clinical per week. Prerequisites: NURS 305, NURS 310, NURS 330 and NURS 335 with a minimum GPA of 2.5 and concurrent with NURS 340, NURS 360 and NURS 370.

NURS 0400  (F)  6 hrs. cr.
Complex Nursing
Focuses on the nursing care of persons with complex variances in health in acute care and rehabilitation settings. Three hours lecture, nine hours of clinical per week. Prerequisites: Minimum of 2.5 GPA in prior semester in NURS 340, NURS 360, NURS 370, and NURS 380 and minimum score of 850 on Evolve MC-1 or MC-2 test and concurrent with NURS 420 and NURS 430.
NURS 0420 (F) 3 hrs. cr.  
Nursing Ethics and Informatics (Writing Intensive)  
Focuses on the process of ethical decision making. Ethical issues confronting the professional nurse including issues related to informatics in healthcare are explored. Writing intensive. Three hours lecture per week. Prerequisites: Minimum 2.5 GPA in prior semester in NURS 340, NURS 360, NURS 370 and NURS 380 and minimum score of 850 on Evolve MC-1 or MC-2 and concurrent with NURS 301 (RNs), NURS 400 and NURS 430.

NURS 0430 (F) 3 hrs. cr.  
Advanced Health Assessment  
The emphasis of advanced health assessment will be refining abilities to utilize techniques to assess, identify and describe variances from normal. Two hours lecture, three hours of lab per week. Prerequisites: Minimum of 2.5 GPA in prior semester in NURS 340, NURS 360, NURS 370 and NURS 380 and minimum score of 850 on Evolve MC-1 or MC-2 and test and concurrent with NURS 400 and NURS 420.

NURS 0450 (S) 5 hrs. cr.  
Community Health Nursing  
Concepts and methods for assessment of community strengths and health needs will be analyzed to improve the overall health status of the person and aggregates. Three hours lecture, six hours of clinical per week. Prerequisites: Minimum 2.5 GPA in prior semester in NURS 400, NURS 420 and NURS 430 and concurrent with NURS 460 and NURS 470.

NURS 0460 (S) 3 hrs. cr.  
Nursing Research (Writing Intensive)  
Emphasizes evaluation of nursing research, utilization of research findings in the clinical setting and assisting in the conduct of research. Three hours of lecture per week. Prerequisites: PSY 320, minimum 2.5 GPA in prior semester in NURS 400, NURS 420 and NURS 430 and concurrent with NURS 450 and NURS 470.

NURS 0470 (S) 5 hrs. cr.  
Nursing Management and Leadership  
Emphasis is on nursing management and organization, nursing leadership skills and resource allocation. Three hours lecture and six hours clinical per week. Prerequisites: Minimum 2.5 GPA in prior semester in NURS 400, NURS 420 and NURS 430 and concurrent with NURS 450 and NURS 460.

NURS 0498 (Demand) 1-3 hrs. cr.  
Advanced Topics in Nursing  
Special topic or topics not normally included in another course. Prerequisites: Upper division standing; additional requirements will be stipulated in the syllabus of the course.

Faculty  
Peine-Head  
Mission  
The mission of the Missouri Southern State University Department of Emergency Medical Services is to educate and graduate an EMS professional who is a competent entry-level practitioner. The program is designed to develop and promote conceptual, technical, contextual, integrative and adaptive competence so that graduates are well rounded in all phases of professional behavior. Graduates will be prepared to enter the health professions workforce and be eligible for licensure, certification and advanced education.

The School of Health Sciences, Public Safety, Technology and the Department of Emergency Medical Services offer certificate programs preparing students to challenge the National Registry examinations. The program is closely integrated with area Emergency Medical Services and area Trauma Centers. Students seeking information about these programs should contact the Director of EMS programs for details about applying for admission to the program. The program meets all requirements of the National Curriculum. The Department of Emergency Medical Services is an accredited training entity for the Missouri Department of Health and Senior Services and the Missouri Unit of Emergency Medical Services. Classroom instruction is supplemented by clinical observation and field experience. The program meets through three consecutive semesters beginning each fall semester. The clinical training is arranged through area hospitals and advanced life support ambulance services.

The completed application packet must be submitted to the Department of Emergency Medical Services by June 1 for all students wishing to enter the program in the fall. Special book and equipment fees are assessed for this course.

Paramedic  
Certificate Code PA80  
Paramedic Certificate Requirements  
PARA 250 Paramedic I ...............................................12  
PARA 270 Paramedic II ..............................................12  
PARA 290 Paramedic III ............................................9  
Total .................................................................33  

Admission Criteria  
1. Must be 18 years of age before first class.  
2. High school graduation diploma or its equivalent.  
3. Evidence of successful completion of Emergency Medical Technician course.  
4. Possession of current State of Missouri EMT license, or eligibility and ability to obtain one by first day of class.  
5. Maturity of judgment, sound moral character and health status, which provide reasonable assurance that the student will meet the physical and mental demands of the occupation.  
6. Completion of PARA 201 or BIO 121 (or equivalent) with a grade of "C" or better.  
7. Submission of completed application and required materials by application deadline.  
8. Submission of MSSU admission application by program application deadline.  

Final selection of student by the admissions committee shall be based on the following factors:  
1. Oral interview to determine career goals, communication skills, background, and orientation toward the paramedic educational program.  
2. Written and practical exam which will include Emergency Medical Technician and math questions.  
3. Letters of recommendation from employers, professional personnel, and/or past instructors.