

NURSING AND HEALTH SCIENCES DIVISION

Contact Information

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Introduction to the Nursing and Health Sciences Division

The Nursing and Health Sciences Division exists to facilitate development of outstanding healthcare providers committed to excellence in the delivery and management of patient centered care. Majors are offered in professional nursing, and radiographic science. Students engage in classroom, clinical, and other experiential learning opportunities to build the foundational knowledge necessary for entry into practice in their identified healthcare field.

Accreditation

Bachelor of Science in Nursing

The baccalaureate degree program in nursing at Lewis-Clark State College is accredited by the Commission on Collegiate Nursing Education, 655 K Street NW, Suite 750, Washington, DC 20001, 202-887-6791. The program is approved by the Idaho Board of Nursing.

Radiographic Science

Lewis-Clark State College is accredited by the Northwest Commission of Colleges and Universities (NWCCU) and the program is accredited by the Joint Review Commission on Education in Radiologic Technology (JRCERT).

Majors Offered

- Bachelor of Science in Nursing (BSN)
- Associate of Science Radiographic Science (ASRS)
- Bachelor of Arts/Science Radiographic Science (BA/BS RS)
- Bachelor of Arts/Science Computed Tomography

Program Outcomes

Bachelor of Science in Nursing

1. Graduates who are well prepared to function as a baccalaureate nurse in various healthcare settings.
2. Graduates who are well prepared to participate as a member of interdisciplinary healthcare teams.
3. Graduates who are well prepared to understand and assume leadership roles in the healthcare system.
4. Stakeholders who are satisfied with the BSN curriculum and educational experience.
5. Students who graduate from the program.

Radiographic Science

Graduates of the radiographic science program will:

1. Demonstrate clinical competency.
2. Demonstrate strong communication skills.
3. Demonstrate critical thinking.
4. Demonstrate professionalism and ethical judgment skills.

Expectations of Students

Bachelor of Science in Nursing

(Refer to the current NHS Student Handbook for details and additional criteria: www.lcsc.edu/nursing (<http://www.lcsc.edu/nursing/>))

1. Minimum grade requirements and penalties for repeated courses apply. See current year NHS Student Handbook and BSN Program application for details. Admitted students who earn less than the required course grade are dismissed from the program and must apply for re-entry if they meet criteria to do so. Re-entry to the BSN program is partially based on clinical and faculty resources and is not guaranteed.
2. Throughout the program, RN-BSN and LPN-BSN students are required to maintain current Registered Nurse or Licensed Practical Nurse licensure in good standing. It is the student's responsibility to immediately notify the Division Chair in writing of any changes in licensure status.

3. Students must complete and pass an annual background check and maintain currency regarding health and CPR requirements. Policies and requirements are posted to the NHS Division web page and are noted in the NHS Student Handbook. Additional fees apply.
4. Students are required to demonstrate professionalism in all classroom and clinical settings.
5. Faculty reserve the right to make program modifications as necessary to meet current professional standards, accreditation criteria, and other policies.
6. Nursing students may petition selected courses for credit by exam or challenge. (See the NHS Student Handbook, your advisor, and the course instructor for challenge exam information.)
7. All students are required to participate in college and program assessments and outcomes testing.
8. Clinical practicum hours and locations vary. Travel to clinical sites is expected. Students are responsible for their own transportation to clinical facilities and associated lodging/meal expenses.
9. For RN-BSN students, all Nursing (NU) courses must be completed within 4 years after taking the first nursing course **or students may be required to meet current program requirements.**

Radiographic Science

(Any changes will be reflected in the current NHS Student Handbook: at www.lcsc.edu/nursing/radiographic-science/ (<http://www.lcsc.edu/nursing/radiographic-science/>))

1. A minimum grade of 75% is required in each RS program course. Students receiving a grade below 75% are required to repeat the course and earn a 75% or better; courses may be repeated one time only. Admitted students who do not earn a minimum grade of 75% in each RS course are dismissed from the program and must apply for re-entry. Re-entry decisions are partially based on clinical and faculty resources.
2. Students must complete and pass an annual background check and maintain currency regarding health and CPR requirements. Current requirements and associated fees are posted to the NHS Division web page.
3. Students are required to demonstrate professionalism in all classroom and clinical settings.
4. Faculty reserve the right to make program modifications as necessary to meet current professional standards, accreditation criteria, and other policies.
5. All students are required to participate in college and program outcome testing and assessments.
6. Clinical practicum hours and locations vary. Students are responsible for their own transportation to clinical facilities and associated lodging/meal expenses.

Assessment

All NHS students will take standardized assessment exams throughout their respective programs. Additionally, during the program and upon program completion, all NHS students are expected to complete course evaluations, as well as program assessment and exit surveys.

Admission Requirements

All NHS students must meet pre-program and annual health (eg. immunizations), and criminal background check requirements, as well as maintain CPR certification and personal health insurance throughout the program. Separate fees apply. Any student with a prior misdemeanor or felony charge or conviction should contact the appropriate licensing board and discuss with your program academic advisor prior to applying for entrance to any NHS Program. The NHS Background Check Policy is found in the NHS Student Handbook on the NHS web page. Clinical agencies may have additional requirements for background checks, drug testing and/or health requirements.

TOEFL Scores for non-native English speakers: Applicants to any NHS program for whom English is not the first and native language are required to take the iBT (internet TOEFL) or the IELTS test within the two years prior to the date of application. A minimum score of 84 on the iBT test with a verbal sub-score of at least 26 or 6.5 on the IELTS with minimum sub-scores of at least 6 is required.

Bachelor of Science in Nursing

1. Completion of pre-program requirements at LC State or an accredited university or college.
2. General LC State admission requirements.
3. Submission of completed application and fee to NursingCAS (www.nursingcas.org) for acceptance into the upper division BSN curriculum. See the NHS web site (www.lcsc.edu/nursing/) for admission criteria (TOEFL, GPA, Certified Nurse Assistant certification or LC State Equivalency, prerequisite coursework), dates and processes. Admission is competitive with a limited number of seats each semester.
4. Transfer students must submit course descriptions of prerequisite courses with application to determine equivalency.
5. Applicable policies and information are located in the NHS Student Handbook on the NHS web page.

Radiographic Science

1. Completion of pre-program requirements at LC State or an accredited university or college.
2. Submission of completed application to the Nursing and Health Sciences Division. See the NHS web site (www.lcsc.edu/nursing (<http://www.lcsc.edu/nursing/>)) for admission criteria (TOEFL, GPA, entrance test, prerequisite and support coursework) and deadlines. Non-refundable fee must accompany application. Admission is competitive with a limited number of spaces each year.
3. Transfer students must submit course descriptions of prerequisite and support courses with application to determine equivalency.
4. Applicable policies and information are located in the NHS Student Handbook on the NHS web page.

Advising

Bachelor of Science in Nursing

Academic advising is provided by BSN faculty and NHS Program Advisors, and is required of all pre-nursing students and those admitted to any Nursing major.

Radiographic Science

Academic advising is provided by Radiographic Science program faculty and NHS Program Advisors, and is required of all pre-RS students and those admitted to any RS program.

Minors, Certificates, Transfer Programs

The Certificate in Nursing Management and Leadership (CNML) is a four course, 10-credit certification program that prepares BSN nurses to take the AONE/AACN Certified Nurse Manager and Leader exam. Curriculum is tailored to meet the needs of today's nurse leaders with content in financial management, human resource management, performance improvement, and strategic management and technology.

Special Policies

Bachelor of Science in Nursing

BSN students incur costs for program application, textbooks, laboratory supplies, background check and tracking of health requirements, assessment testing, and liability insurance.

Radiographic Science

RS students incur costs for program application, entrance testing, radiation badges, text books, laboratory supplies, background check and tracking of health requirements, assessment testing, and liability insurance.

Clubs, Honor Societies, other Activities

Nursing students are invited to join the LC State chapter of the Idaho State Nurse's Association (ISNA). ISNA students participate in educational and health promotion opportunities across campus, participate in fundraising endeavors, and engage in professional development activities.

The purpose of ISNA is:

1. To assume responsibility for contributing to nursing education in order to provide for the highest quality health care.
2. To provide programs representative of fundamental and current professional interests and concerns.
3. To aid in the development of the whole person and his/her professional role and his/her responsibility for the health care of all people.

Preparation for Future Graduate Studies

Bachelor of Science in Nursing

The BSN program provides an educational foundation for continued nursing study at the graduate level.

Radiographic Science

The ASRS program provides an educational foundation for continued radiographic study at the baccalaureate level.

NU-190 DIRECTED STUDY IN NURSING 1.00-3.00 Credits

NU-193 SERVICE LEARNING 1.00-12.00 Credits

NU-290 DIRECTED STUDY IN NURSING 1.00-3.00 Credits

NU-291 WORKSHOP IN NURSING 1.00-3.00 Credits

NU-292 SPECIAL TOPICS IN NURSING 1.00-12.00 Credits

NU-295 PRACTICUM IN NURSING 1.00-12.00 Credits

NU-299 RESEARCH ASSISTANTSHIP 1.00-12.00 Credits

NU-306 HEALTH ASSESSMENT 2.00 Credits

The theory component introduces a systems approach using the nursing process as a foundation for conducting a physical health assessment of an individual. The process includes data collection, interpretation, and documentation. The lab portion provides an opportunity to practice and apply techniques of physical assessment.

NU-308 NURSING APPLICATIONS OF GENETICS 1.00 Credit

Utilize previously gained knowledge in genetics to explore nursing interventions in genetic science and legal, ethical, and social implications of genetic manipulation.

NU-309 SKILLS TRANSITION 1.00 Credit

Designed for the LPN transitioning to the BSN role, this course assures competency in the skills required of the professional nurse. Basic skills will be reviewed. The student will learn additional professional nurse skills to include central venous monitoring and dressing changes, CVP measurement, intravenous medication administration, chest tube management, infusion algorithms, blood administration, and basic EKG skills. Prerequisite: Admission to LPN to BSN track.

NU-310 END OF LIFE CARE 1.00 Credit

Increase your knowledge and skills in caring physically and emotionally for dying patients of all ages and their families. Emphasis will be on caring for patients in acute care settings, but hospice care will be discussed. Mourning will also be addressed.

NU-312 PHARMACOLOGY IN NURSING 3.00 Credits

Provides the student with the knowledge necessary to administer medications as a provider of care. Examines principles of pharmacology within the framework of body systems and alterations of health across a lifespan. The physiologic process of drug actions, adverse effects of medication therapy, and safe administration are emphasized.

NU-313 PROFESSIONAL ROLE DEVELOPMENT I: PROVIDER OF CARE 4.00 Credits

Investigates the roles and responsibilities of the professional nurse as provider of care to individuals. Professional standards of practice, principles of evidence-based practice, and the program philosophy are introduced. Fundamental skill development and use of technology in providing nursing care are emphasized.

NU-314 PROFESSIONAL ROLE DEVELOPMENT II: DESIGNER OF CARE 3.00 Credits

Examine the role of the professional nurse as Provider of Care through understanding the theoretical and historical basis for nursing practice. The role of nurse as Provider of Care is expanded to include families as clients. The role of Designer of Care is explored as it relates to the role of the nurse for the client and family. Outcome analysis and evaluation is emphasized as a part of the nursing process.

NU-317 PROFESSIONAL ROLE DEVELOPMENT II: DESIGNER OF CARE 2.00 Credits

The purpose of this course is to explore the foundational ideas of professional nursing practice. The course is framed in the programs outline of Provider & Designer of Care as the basis for practices used in working with the patient and family. Topics include, ethics, interdisciplinary collaboration, legal aspects, Nurse Practice Act, organ donation, models of care, and concepts related to nursing theory. Skills in nurse caring, communication, teaching-learning, prioritization/decision-making, and customer service are also covered.

NU-318 NURSING GENETICS 3.00 Credits

This course provides the BSN degree-seeking student with a basic understanding of genetics from a nursing perspective. It is designed to help students expand their learning about basic concepts of molecular genetics, gene expression, and genomics as it applies to health issues through the life span and how it influences specific health problems, and ethical concerns. Specific health topics of behavioral health, cardiovascular disease, cancer, immunity, and responses to medications will be applied to nursing issues in diverse contexts. Pre-requisite: Admission to the basic BSN, LPN-BSN, RN-BSN track, or instructor permission.

NU-325 ALTERATIONS IN HEALTH I 3.00 Credits

Provides the student with a comprehensive theoretical foundation for the management of clients across the lifespan who experience alterations in health. The course builds on knowledge from the biological support courses to examine health problems within the context of medical and nursing sciences. Skills in critical thinking are developed for application to the nursing process as a provider of care.

NU-326 ALTERATIONS IN HEALTH AND PHARMACOLOGY RECITATION 1.00 Credit

This course is designed to enhance student learning and to increase proficiency in critical thinking and problem solving with the goal of optimizing student success in NU 325 Alterations in Health I and NU 312 Pharmacology in Nursing. Concurrent enrollment in NU 325 and NU 312 is required. Graded Pass/Fail.

NU-332 PRACTICUM: ALTERATIONS IN HEALTH I 5.00 Credits

The professional nurse role of provider of care is practiced in a variety of settings with individuals across the lifespan. Integrates basic skill performance, the application of the nursing process, critical thinking and teaching skills to clients experiencing alterations in health. Written and verbal communication within the healthcare team and to patients is emphasized. Graded Pass/Fail only.

NU-341 ALTERATIONS IN HEALTH II 3.00 Credits

Provides the student with a comprehensive theoretical foundation for clients experiencing complex alterations in health. Expands knowledge of the nursing and medical sciences for examining increasingly complex alterations of health for individuals across the lifespan within the context of family. Skills in critical thinking and judgment continue to be emphasized as a provider and designer of care.

NU-342 PRACTICUM: ALTERATIONS IN HEALTH II 5.00 Credits

Expands the professional nurse role of provider of care. Introduces the role as designer of care to clients across the lifespan in the context of their social support system. Integrates advanced skill performance, individualized application of the nursing process, critical thinking and teaching skills to clients experiencing more complex alterations in health, including mental illness. Emphasis on therapeutic communications, and coordination and evaluation of care. Graded Pass/Fail only.

NU-352 PSYCHIATRIC AND MENTAL HEALTH NURSING 2.00 Credits

Introduces the role of the professional nurse in caring for mentally ill individuals in inpatient and community settings. Theoretical knowledge of psychiatric conditions and appropriate nursing and therapeutic interventions are taught. Emphasis on therapeutic communication and treatment modalities to assist patients to attain optimal mental wellness.

NU-354 GERIATRIC NURSING 2.00 Credits

Examines issues related to the provision of holistic nursing care to elderly clients. Emphasis on assessment, health promotion, development and cultural aspects of aging. Chronicity and common syndromes associated with aging, along with theories of aging are examined. The importance of individualized interventions in geriatrics is stressed.

NU-356 GERIATRIC NURSING-LPN 1.00 Credit

This course builds upon knowledge learned in the LCSC Practical Nursing program and focuses on issues related to the provision of holistic nursing care to older adults. Emphasis is placed on assessment, health promotion, developmental and cultural aspects of aging. Chronicity and common syndromes associated with aging are evaluated. The importance of individualized interventions in geriatrics is stressed. The purpose of the course is to develop confidence and competence in providing care to members of the older adult population and provides the foundation of knowledge required for baccalaureate prepared nurses. This course is available to graduates of the LCSC PN program. Pre-requisite: Admission to the LPN-BSN track or permission by instructor.

NU-360 TRANSCULTURAL HEALTHCARE 2.00 Credits

Focuses on transcultural nursing and healthcare, with culturally competent care as the central phenomenon to promote health and well-being. This course is designed to help students expand their learning about culture care beliefs, values and practices of specific cultures, subcultures, and marginalized groups. Specific transcultural nursing/health care concepts, principles, and strategies will be applied to contemporary issues in diverse contexts. Writing integrated.

NU-390 DIRECTED STUDY IN NURSING 1.00-3.00 Credits**NU-392 SPECIAL TOPICS IN NURSING 1.00-3.00 Credits****NU-399 RESEARCH ASSISTANTSHIP 1.00-3.00 Credits****NU-407 MATERNAL HEALTH THEORY 2.00 Credits**

Provides a theoretical framework for the care of pregnant women, and families in a variety of settings. Utilizes the nursing process to explore therapeutic nursing interventions and the roles of the professional nurse. Pre-requisite: Acceptance to BSN Program or permission of instructor and successful completion of all previous nursing classes with a grade of C or above.

NU-408 PEDIATRIC HEALTH THEORY 2.00 Credits

Provides a theoretical framework for the care of children, and families in a variety of settings. Utilizes the nursing process to explore therapeutic nursing interventions and the roles of the professional nurse. Pre-Requisite: Acceptance to BSN Program or permission of instructor and successful completion of all previous nursing classes with a grade of C or above.

NU-413 PROFESSIONAL ROLE DEVELOPMENT III: MANAGER/COORDINATOR OF CARE 3.00 Credits

Explores the roles and responsibilities of the professional nurse as manager/coordinator of care for diverse clients and in the healthcare system. The exploration of nursing and management theories provides a basis for the roles of patient advocate, interdisciplinary coordinator, and team manager. Management skills emphasized in this course include management of quality nursing care through outcome and evidence-based evaluation, collaboration, and collegiality.

NU-414 PROFESSIONAL ROLE DEVELOPMENT IV: MEMBER OF THE PROFESSION 2.00 Credits

Develops and refines the role of the baccalaureate nurse as a leader within the profession and society. Professional and societal issues are used as a forum for the development of personal goals for lifelong learning. Leadership skills include advocacy, communication, and political awareness.

NU-416 PRACTICUM IN FAMILY HEALTH 3.00 Credits

Applies theoretical knowledge in the care of children, pregnant women, and families in a variety of settings. Integrates basic skill performance, the application of the nursing process, critical thinking and teaching skills.

NU-418 FAMILY NURSING 2.00-3.00 Credits

Provides a theoretical framework for the care of children, pregnant women, and families in a variety of settings. Utilizes the nursing process to explore therapeutic nursing interventions and the roles of the professional nurse. This course may be a theory or a combined theory/clinical option depending on student learning needs. Pre-Requisite: Acceptance to PN-BSN Program or permission of instructor and successful completion of all previous nursing classes with a grade of C or above.

NU-421 PREPARATION FOR NCLEX AND PROFESSIONAL PRACTICE 2.00 Credits

Synthesizes knowledge from all previous BSN courses; thus preparing students for the provision of safe care during their guided preceptorship experience. Knowledge and skills in critical thinking and judgment continue to be emphasized, particularly in relation to preparation for graduation and licensure. Expands knowledge regarding NCLEX style test taking. Pre-requisite: Completion of all prior nursing courses or permission of instructor.

NU-440 POPULATION HEALTH 3.00 Credits

Explores the theoretical and conceptual foundations of population health and community and public health nursing. Community assessment, population-focused practice, epidemiology, and health promotion are examined in a rural, regional, and global context.

NU-442 PRACTICUM IN POPULATION HEALTH 2.00 Credits

Provides the opportunity to apply theoretical and conceptual foundations learned in NU-440 Population Health with clinical practice, focusing on the community as client. A variety of clinical partnerships provide students with opportunities to participate in population health initiatives. The student develops community assessment, analysis, and diagnosis, as the basis for implementation of community-level interventions for health promotion in diverse community settings, as well as skills in organizing and developing community partnerships. Graded Pass/Fail only. Co-requisite: NU-440 must be taken concurrently or prior to NU-442.

NU-447 EVIDENCE BASED PRACTICE FOR NURSING 3.00 Credits

Develops basic research concepts and processes that are necessary for the professional nurse to participate in evidence-based practice (EBP). Emphasis on the utilization of research through the process of retrieval, critical appraisal, and synthesis of evidence in collaboration with other members of the healthcare team. Applies evidence to clinical practice through the dissemination of EBP with a focus on improved patient care/outcomes, nursing practice, and healthcare systems. Pre-requisite: Acceptance to BSN program; PSYC-300, MATH-153 or MATH-253 or equivalent, with a grade of C or better.

NU-469 HEALTHCARE POLICY AND ECONOMICS 2.00 Credits

Provides the student with a basic understanding of the world of healthcare from an economic and political point of view. The student will gain an understanding of the business and financial environments impacting healthcare today, general economic and financial concepts, budgeting processes, the influence of economic and political factors on access to healthcare, and the use of financial information in the decision-making process. Pre-requisite: MATH 153 or MATH 253 or PSYC 300 or equivalent.

NU-477 GUIDED PRECEPTORSHIP 4.00 Credits

Synthesizes the role of the professional nurse as a Provider/Designer/Manager of care to individuals and groups through application of all previous clinical and theoretical coursework. In a supervised setting, the student's competence in nursing skills and the nursing process is assessed followed by advancement to an independent preceptorship in an assigned clinical setting. The professional nurse roles of provider of care, designer/manager/coordinator of care, and member of the profession are emphasized.

NU-478 PRACTICUM IN LEADERSHIP FOR THE REGISTERED NURSE 2.00 Credits

Facilitates the application of theoretical leadership and management concepts while working with a nurse manager or leader in a variety of settings. Emphasis on change, communication, current practice and care delivery issues, and development of professional leadership skills for the registered nurse.

NU-480 NEONATAL RESUSCITATION 1.00 Credit

This course is intended primarily for persons who may be required to assist with the resuscitation of a newborn infant in a hospital setting. The material used in this course is provided by the American Heart Association of the American Academy of Pediatrics. Pre-requisite: Permission of the instructor.

NU-482 HEALTHCARE POLICY 2.00 Credits

Examines the world of healthcare from a political and socioeconomic point of view. The student will gain an understanding of the structure of the U. S. healthcare system and how it contrasts with those of other developed nations, issues impacting healthcare today, and the influence of political factors on cost, quality, and access to healthcare.

NU-484 HEALTHCARE ECONOMICS 2.00 Credits

Provides the student with a basic understanding of the world of healthcare from an economic and financial point of view. The student will gain an understanding of the business and financial environments impacting healthcare today, general economic and financial concepts, budgeting processes, the influence of economic factors on access to healthcare, and the use of financial information in the decision-making process.

NU-490 DIRECTED STUDY IN NURSING 1.00-3.00 Credits**NU-491 WORKSHOP IN NURSING 1.00-3.00 Credits****NU-492 SPECIAL TOPICS IN NURSING 1.00-12.00 Credits****NU-494 INTERNSHIP IN NURSING 3.00 Credits**

Internship in Nursing opportunity to integrate the skills and knowledge acquired in all previous coursework leading to the Business Administration degree with a Healthcare Management Emphasis. Students will engage in practical experience shadowing a healthcare manager, and the design, execution, and presentation of a healthcare management capstone project. Additionally, students will participate in service learning for their community; evaluate and discuss ethical issues in collaboration with their colleagues; and synthesize prior learning with a formal research paper on the future of healthcare management.

NU-495 PRACTICUM IN NURSING 1.00-12.00 Credits**NU-498 CAPSTONE: HEALTHCARE MANAGEMENT 3.00 Credits**

This culminating course provides students the opportunity to integrate the skills and knowledge acquired in all previous coursework leading to the Business Administration degree with a Healthcare Management Emphasis. Students will engage in practical experience shadowing a healthcare manager, and the design, execution, and presentation of a healthcare management capstone project. Additionally, students will participate in service learning for their community; evaluate and discuss ethical issues in collaboration with their colleagues; and synthesize prior learning with a formal research paper on the future of healthcare management.

NU-499 RESEARCH PROJECT AND SEMINAR IN NURSING 1.00-12.00 Credits**NU-582 HEALTHCARE POLICY 2.00 Credits**

Examines the world of healthcare from a political and socioeconomic point of view. The student will gain an understanding of the structure of the U. S. healthcare system and how it contrasts with those of other developed nations, issues impacting healthcare today, and the influence of political factors on cost, quality, and access to healthcare.

NU-584 HEALTHCARE ECONOMICS 2.00 Credits

Provides the student with an understanding of the world of healthcare from an economic and financial point of view. The student will gain an understanding of the business and financial environments impacting healthcare today, general economic and financial concepts, budgeting processes, the influence of economic factors on access to healthcare, and the use of financial information in the decision-making process.

NU-594 INTERNSHIP IN NURSING 3.00 Credits

This culminating course provides students the opportunity to integrate the skills and knowledge acquired in all previous coursework. Students will engage in practical experience shadowing a healthcare manager, including the design, execution, and presentation of a healthcare management capstone project. Additionally, students will participate in service learning for their community; evaluate and discuss ethical issues in collaboration with their colleagues; and synthesize prior learning with a formal research paper on the future of healthcare management. Prerequisites: NU-582 and NU-584.

RS-201 MEDICAL TERMINOLOGY FOR RADIOGRAPHERS 2.00 Credits

This online course serves as an introduction to Medical Terminology. The emphasis will be on the word-building process, medical abbreviations and symbols, as well as terminology used for specific radiologic procedures and diagnostic reports. Pre-requisites: Admission to the Associate of Science in Radiography program and/or permission of the instructor.

RS-220 PATIENT CARE IN RADIOGRAPHY 2.00 Credits

Addresses principles and practices of patient care in the radiographic setting. Standards of patient care for the radiographer as a member of the health care interdisciplinary team in the hospital and clinic setting will be presented, with a focus on medical ethics and legal issues pertaining to the radiography setting. Students will demonstrate contrast media administration, patient preparation for radiographic examinations and safety awareness. Pre-requisite: Admission to the Associate of Science in Radiography program and/or permission of the instructor.

RS-221 RADIOGRAPHIC METHODS I 3.00 Credits

Core positioning practices in radiography. Simulated X-ray exams will be performed on upper and lower extremities, chest and abdomen. Phantom anatomical models may be imaged and film critique will be performed on each positioning protocol. There may be a few visits to local clinical sites to aid in understanding equipment descriptions, manipulations of locks and control panels, ext (time permitting). Pre-requisite: Admission to the Associate of Science in Radiography program and/or permission of the instructor.

RS-222 RADIOGRAPHIC METHODS II 3.00 Credits

This is a lecture/laboratory course of principles and practices of cranial radiography - including skull, facial bones, paranasal sinuses and mandible. Anatomy and positioning of the spinal cord will also be introduced. Techniques of patient care, positioning, technique, film critique, anatomy and pathology will be presented. Observations and practice will occur in the laboratory classroom.

RS-240 QUALITY ASSURANCE AND TECHNICAL IMAGING 3.00 Credits

A technical overview of radiography to include the x-ray tube, tube rating charts, tube failure, x-ray physics, x-ray production, x-ray machine components, x-ray machine circuits, beam restriction devices, grids, geometric factors, fluoroscopy, x-ray technique, digital/computer imaging, and quality control criteria. Pre-requisite: Admission to the Associate of Science in Radiography program and/or permission of the instructor.

RS-242 CR/DR APPLICATIONS 1.00 Credit

Review the history of digital image acquisition as well as an introduction of Radiology Information Systems and their role in hospital information systems (HIS) and exploration of the importance of digital image communication in medicine (DICOM) in a radiology department. Pre-requisite: Admission to the Radiographic Science program.

RS-255 RADIOGRAPHIC PATHOLOGY 3.00 Credits

Basic principles of pathology and radiographic appearance of specific diseases. Selecting proper modalities related to disease processes, technical factors, and determination for retaking radiographs that might be acceptable under different circumstances. Co-requisites: RS 260 and RS 265.

RS-258 SPECIAL PROCEDURES I 2.00 Credits

This lab-based course focuses on the principles and practices of special procedures most commonly performed in our regional hospitals. Mobile radiography and trauma Imaging will be discussed. Special emphasis will be placed on fundamentals of assisting the Radiologist during fluoroscopic examinations. Pre-requisite: Admission to Radiographic Science program.

RS-261 APPLIED RADIOGRAPHY I 8.00 Credits

Core positioning practices in radiography demonstrated in the clinical environment. Student begins to obtain competencies for Chest, Abdomen, Upper extremity and Lower extremity radiographic examinations.

RS-288 SIMULATION, SAFETY AND REVIEW I 1.00 Credit

Integrates basic skill performance through simulation and review of routine examination processes. Simulation activities include utilization of mobile x-ray units, positioning and examination in real life scenarios. Student skills in critical thinking are developed through application, observation and evaluation. Must be admitted into the Associate of Science Radiographic Science Program.

RS-289 SIMULATION, SAFETY AND REVIEW II 1.00 Credit

Continuation of RS-289. Integrates basic skill performance through simulation and review of routine examination processes. Simulation activities include utilization of mobile x-ray units, positioning and examination in real life scenarios. Student skills in critical thinking are developed through application, observation and evaluation. Must be admitted into the Associate of Science Radiographic Science Program.

RS-330 RADIOBIOLOGY 3.00 Credits

Review of cell structure and function, ionizing radiation induced cell damage, history of radiation disease research, and subsequent development of radiation protection guidelines. Co-requisite: RS 332.

RS-355 REGISTRY REVIEW 2.00 Credits

This course provides an overview of radiographic terminology, anatomy, positioning, ethics, legal principles, technique, physics, radiobiology special procedures, quality assurance, patient care, and professionalism related to the performance of entry-level radiography in preparation for taking the American Registry of Radiologic Technology (ARRT) Radiography (R) exam.

RS-358 SPECIAL PROCEDURES II 1.00 Credit

This hybrid course focuses on the principles and practices of special procedures and advanced imaging modalities. Topics include: the history and development of computed tomography (CT), and introduction to diagnostic ultrasound (US), bone densitometry, mammography, MRI, radiation therapy, and nuclear medicine. Pre-requisite: RS-258.

RS-359 INTRODUCTION TO COMPUTED TOMOGRAPHY 1.00 Credit

Introduction of Computed Tomography (CT) instrumentation to include system operation and components, acquisition methods, parameter selection, image processing and display, image quality, artifact recognition, and quality. Must be admitted into the Associate of Science Radiographic Science Program or permission from the instructor.

RS-362 APPLIED RADIOGRAPHY II 10.00 Credits

Core positioning in radiography demonstrated in the clinical environment. Continuation of RS 261 to include all needed competency exams required by ARRT.

RS-363 APPLIED RADIOGRAPHY III 10.00 Credits

Core positioning practices in radiography demonstrated in the clinical environment. Continuation of 362 to include all needed competency exams by the ARRT.

RS-390 DIRECTED STUDY: RADIOGRAPHIC SCIENCE 1.00-3.00 Credits

RS-392 SPECIAL TOPIC: RADIOGRAPHIC SCIENCE 1.00-12.00 Credits

RS-405 SECTIONAL IMAGING 3.00 Credits

This online course provides an overview of axial, coronal and sagittal imaging of the human body as demonstrated via diagnostic imaging procedures. Must be admitted into the LCSC Bachelor of Science in Radiographic Science Computed Tomography Program, current ARRT certification, or permission of the instructor.

RS-410 CT PATHOLOGY 3.00 Credits

This online course will explore the basic principles of pathology and computed tomography (CT) of specific disease processes. Selection of proper imaging protocols related to pathology will also be examined. Pre-requisite: Admission into the LCSC Bachelor of Science in Radiographic Science Computed Tomography Program, current ARRT certification, or permission of the instructor.

RS-420 CT PHYSICS/INSTRUMENTATION 3.00 Credits

This online course examines Computed Tomography (CT) physics and instrumentation to include system operation and components, image processing and display, image quality, artifact recognition, and quality. Pre-requisite: Admission into the LCSC Bachelor of Science in Radiographic Science Computed Tomography Program, current ARRT certification, or permission of the instructor.

RS-460 PHARMACOLOGY FOR IMAGING PROFESSIONALS 2.00 Credits

RS 460 is a 2 credit course that explores the principles of the pharmaceuticals needed to perform today's medical imaging processes along with the indications and contraindications of each; the role the imaging professional plays; the optional routes to administer the products; the Pharmacokinetics coverage that describes how drugs are absorbed, metabolized, distributed, and eliminated; and lastly the emergency procedures in response to adverse reactions to contrast media. Pre-requisite: Admittance into the Associate of Science Radiographic Science program and Junior standing or permission from the instructor.

RS-480 CT INTERNSHIP 13.00 Credits

Build on knowledge and skills obtained from professional experience and class work and apply these concepts to the performance of clinical procedures in the imaging environment. Each internship will adhere to ARRT (CT) clinical requirements and the needs of each student. Objectives will be determined through collaboration of the LCSC radiography faculty, the student, the site preceptor and in accordance with ARRT (CT) clinical requirements. Pre-requisite: Admission into the LCSC Bachelor of Science in Radiographic Science Computed Tomography Program, current ARRT certification, or permission of the instructor. Program approved clinical site rotation secured prior to beginning of semester.

RS-499 SENIOR CAPSTONE: IMAGING ETHICS 3.00 Credits

RS 499 is a 3 credit course that explores professional ethics that must to maintained and adhered to in a diagnostic imaging department. Familiarity of professional and personal codes of ethics and understanding will be discovered through online discussion, case studies, and group work. This course prepares individuals to motivate health care professionals to function and operate their specific tasks at their best abilities and improve efficiency in health care facilities. Pre-requisite: Admittance into the Associate of Science Radiographic Science program and Junior standing or permission from the instructor.