



CENTER FOR EDUCATION

Catalog
2021 - 2022

SCHOOL OF NURSING
SCHOOL OF RESPIRATORY CARE
SCHOOL OF MEDICAL IMAGING

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5/21; 7/21

**ST. MARY'S MEDICAL CENTER
CENTER FOR EDUCATION**

Letter to Prospective Student

Dear Prospective Student:

Thank you for your interest in pursuing a health care career at St. Mary's Medical Center. On behalf of the faculty and staff of the Center for Education, I welcome you. It is our desire to be of assistance to you as you seek to fulfill your personal goals and aspirations of learning to provide competent and compassionate care.

Please read the information in this catalog as it relates to the school to which you are applying. An application that is incomplete will not be considered for admittance. Admittance is based on a point system. Therefore, it is essential that you closely examine the admission criteria.

Again, we are pleased that you have chosen one of our three schools to prepare you for a career in health care. We wish you well in your endeavors.

Sincerely,

Dr. Joey Trader
Vice-President of Schools of Nursing and Health Professions

**ST. MARY'S MEDICAL CENTER
CENTER FOR EDUCATION**

**SCHOOL OF NURSING, SCHOOL OF MEDICAL IMAGING, SCHOOL OF RESPIRATORY
CARE**

GENERAL INFORMATION

St. Mary's Medical Center was founded by the Missionary Sisters of the Catholic Apostolate. The Sisters are members of the Pallottine order. Their motto comes from their founder, St. Vincent Pallotti, CARITAS CHRISTI URGET NOS, which means THE LOVE OF CHRIST URGES US ON. The Center for Education at St. Mary's Medical Center is the home of St. Mary's School of Nursing, the School of Respiratory Care, and the School of Medical Imaging.

All three schools, in cooperation with Marshall University, offer collegiate degrees. Support courses for all three schools are taught at Marshall University (the main Huntington campus or any of their off-campus sites). The specific professional courses for all three schools are taught at the Center for Education. Upon completion of any of the programs, the graduates are eligible to make application for licensure or certification from their appropriate boards.

The faculty continue to meet the challenges of health care demands and the changes within the surrounding community in order to meet the needs for professional health care providers. Students have modern clinical facilities within St. Mary's Medical Center, which is a licensed 393 bed medical center. The medical center offers broad health care experiences in surgery, medicine, obstetrics, psychiatry, and extended care. The medical center is accredited by The Joint Commission, and has membership in The Catholic Health Association, The American Hospital Association, and the West Virginia Hospital Association.

Students in the three schools have experiences in surrounding facilities that enhance their education while enrolled in the program. St. Mary's Medical Center and the Center for Education are conducted according to Catholic principles and teachings. The ethical Directives for Catholic Hospitals provide guidelines for students, staff and personnel in policy and decision making related to medical-moral issues.

Since the founding of St. Mary's Medical Center in 1924, the Medical Center has grown to be one of the largest employers in the entire tri-state area and is a leader of health care services in the eastern part of the United States of America. From the humble beginnings of the dedicated Pallottine Sisters, many health care providers have made contributions world-wide and are known as St. Mary's graduates.

School of Nursing

St. Mary's School of Nursing was founded by the Pallottine Sisters of the Catholic Apostolate in 1926. It is the oldest operating RN program in West Virginia and has graduated 4,475 students as of May 2020.

St. Mary's School of Nursing, in cooperation with Marshall University, offers a two year associate degree nursing program. The nursing courses are taught at St. Mary's School of Nursing, the support courses are taught at Marshall University. Upon completion of the program, the graduate receives an Associate in Science in Nursing Degree from Marshall University, and is eligible to make application to take the NCLEX-RN for licensure to practice as a registered nurse. Graduates are able to articulate to baccalaureate in nursing programs on a full-time or part-time basis for career advancement.

School of Medical Imaging

St. Mary's School of Medical Imaging (SOMI) is a hospital based program in medical imaging and has partnered with Marshall University to offer a Baccalaureate in Science in Medical Imaging. The program began in 1964 and entered into a cooperative agreement with Marshall University in 2009. The program curriculum is designed to prepare students to practice radiography and introduce students to related specialized imaging modalities. The curriculum is structured so that the entering freshman will complete all degree requirements within four years. In addition, an option is available for the credentialed Radiographer to enter the professional portion of the program (fourth year) and obtain the degree.

Radiography is a multi-dimensional career that includes digital and computed radiography, trauma radiography and fluoroscopy. Radiographers have many advanced imaging opportunities available including sonography, computed tomography, magnetic resonance imaging and cardiovascular intervention radiography.

School of Respiratory Care

The School of Respiratory Care was founded in 2005. It is a cooperative baccalaureate program with Marshall University. The support courses are taught at Marshall University, and the respiratory care classes are taught at St. Mary's School of Respiratory Care.

Respiratory therapists work with individuals with acute and chronic health problems, such as asthma, pneumonia, bronchitis, and many other breathing disorders. They also come into contact with persons who have been involved in a traumatic accident, experienced a heart attack, or the birthing of premature infants and patients in a pulmonary rehabilitation program.

DISCLAIMER

The provisions of this catalog do not constitute a contract, expressed or implied between any applicant or student and the Center for Education at St. Mary's Medical Center. The Center for Education reserves the right to change any of the provisions, schedules, programs, courses, rules, regulations, or fees whenever school authorities deem it expedient to do so.

FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT (FERPA) OF 1974

This act was designed to protect the privacy of education records, to establish the rights of students to inspect and review their education records, and to provide guidelines for the correction of inaccurate or misleading data. The Center for Education at St. Mary's Medical Center is in compliance with the provisions of this act. Requests for further clarification on this Act, the regulations, and Marshall University policy should be directed to the Dean of Student Affairs.

CIVIL RIGHTS ASSURANCE

No person in the United States of America on the basis of sex, age, race, religion, color, national origin, sexual orientation, or any otherwise qualified handicapped individual solely by reason of the handicap shall be excluded from participation in, be denied benefits, or be subjected to discrimination under any program or activity receiving federal assistance operated by or in conjunction with the Center for Education at St. Mary's Medical Center.

CONFLICT OF CONSCIENCE

It is the policy of the school that the reasonable and conscientious moral and religious convictions of students will be respected in every way possible. Students are to make these convictions known at the time of admittance to any of the schools. Faculty will make every effort to resolve such issues to the mutual advantage of both the school and the student. Should a student be requested or required to perform duties, which are objectionable because of religious or moral convictions, the student should ask to be relieved of such duty. If the request cannot be accommodated reasonably, without undue hardship or inability to meet the standards of the school, the involved parties are to bring the matter to the attention of the Vice President of Schools of Nursing and Health Professions.

CRIMINAL BACKGROUND CHECK AND DRUG SCREEN

All students who are chosen for admittance to any of the schools of the Center for Education of St. Mary's Medical Center must complete both a background check and a drug screen. Final acceptance is contingent upon a successful background check and drug screen. Once provisional acceptance is granted, the applicant will be advised of the processes to follow in obtaining the background check and the drug screen. The costs for both are paid by the applicant. The results of the background check and/or drug screen will not constitute an automatic bar to admission; positive background checks will be evaluated on an individual basis. Clinical agencies may forbid students with positive criminal background checks and/or drug screens from providing care in their agency. In addition, background

checks and drug screens will be required between the spring and fall semesters. This policy is subject to change without prior notice.

In addition to the criminal background check and drug screen, each applicant will be asked to complete a disclosure statement at the time they submit their completed application form. Failure to acknowledge past criminal background issues will constitute automatic rejection of that applicant to any of the schools. It is recommended that those with an existing criminal background history submit court documents such as the criminal complaint or judgment of conviction and the results of such issue reflecting legal status and restitution. A crime is defined as all criminal offenses, misdemeanors and not limited to felonies. DUI (driving under the influence) is considered a crime.

TIME COMMITMENT

The curriculum of each school is challenging, labor intensive, and requires commitment and more time than most other courses of study. There are multiple courses each semester, including clinical courses which require 3-4 hours of direct clinical experience per credit hour. This does not include time required for travel, preclinical visits to the clinical agency, or preparation/study prior to and after the clinical experiences. Clinical hours may be scheduled days, evenings, nights and weekends. Course requirements may include testing during non-scheduled class hours.

COMPUTERS AND ELECTRONIC COMMUNICATION

It is required that the students have a computer with a printer and access to the Internet. While all students have access to these things while at the Center for Education, students must also have access to these things at home or in some other capacity in the event that distance education becomes emergently necessary. Some information will be shared via the electronic method. All students have a Marshall email account, and are expected to utilize that account.

CAMPUS SAFETY AND SECURITY

St. Mary's Medical Center provides security for the Center for Education schools. Information regarding safety/security incidents is provided annually to the Vice President of Schools of Nursing and Health Professions and may be reviewed upon request.

Marshall University provides security for that campus. Information regarding safety/security incidents can be reviewed on the university web page at www.marshall.edu.

CENTER FOR EDUCATION MISSION, VISION AND EDUCATIONAL PHILOSOPHY

MISSION STATEMENT

We prepare students to assume roles as caring health care providers, respecting the worth and dignity of human life.

VISION STATEMENT

Leading the way in health care education.

STATEMENT OF EDUCATIONAL PHILOSOPHY

EDUCATION

Education is an interactive process which includes formal instruction and experiential learning. Education enhances learning in the cognitive, affective, and psychomotor domains. Learning involves the translation of new knowledge, insights, skills, and values into one's conduct. This active process takes place within the learner and is fostered when consideration is given to individual differences. Learning is facilitated, through repetition and practical application, when new knowledge is related to previous knowledge and when learning is goal directed.

The need and ability to learn continues throughout life. The role of the faculty in education is to facilitate the student's learning experience through systematic guidance in their endeavors to acquire the knowledge, skills and judgment necessary for competence in health care practice.

ACCREDITATION AND MEMBERSHIP

St. Mary's Medical Center

St. Mary's Medical Center is accredited by The Joint Commission. The address for The Joint Commission is One Renaissance Blvd., Oakbrook Terrace, IL 60181 and the phone number is (630) 792-5000. The web address is <https://www.jointcommission.org>

School of Nursing

The Associate Degree nursing program at St. Mary's/Marshall University Associate of Science in Nursing Program located in Huntington, West Virginia is accredited by the: Accreditation Commission for Education in Nursing (ACEN)
3390 Peachtree Road NE, Suite 1400 Atlanta, GA 30326
(404) 975-5000

The most recent accreditation decision made by the ACEN Board of Commissioners for the St. Mary's/Marshall University Cooperative Associate of Science in Nursing program is Continuing Accreditation.

–View the public information disclosed by the ACEN regarding this program at <http://www.acenursing.us/accreditedprograms/programSearch.htm>

School of Medical Imaging

The School of Medical Imaging is accredited by the Joint Review Committee on Education in Radiography (JRCERT) and recognized by the West Virginia Board of Examiners of Radiologic Technologists. JRCERT can be contacted at 20 N. Wacker Drive, Suite 2850, Chicago, IL 60606-3182, 312-704-5300, <http://www.jrcert.org>.

School of Respiratory Care

The School of Respiratory Care program is accredited by the Committee on Accreditation for Respiratory Care (CoARC), 1248 Harwood Road, Bedford, TX 76021, 1-817-283-2835, <http://www.coarc.com/>.

Formulated: Documented 2/2021

Revised: 2/2021

ACADEMIC CALENDAR – FALL 2021

August 13, Friday, 8:00 a.m. – 4:00 p.m.

Center for Education Orientation for new students

August 20, Friday, 8:00 a.m. – 5:00 p.m.

Mandatory Assembly at the CFE for new and returning students

August 21, Saturday, 9:00 a.m.

Residence halls open for upperclassmen

August 23, Monday, 8 a.m.

First day of classes

August 23, Monday – August 27, Friday, 8 a.m. – 5 p.m.

Late registration/schedule adjustment (add-drop)

August 27, Friday

Last day to add a class

August 30, Monday

Withdrawal (“W”) period begins

September 4, Saturday – September 6, Monday

University Computing Services unavailable

September 6, Monday

Labor Day Holiday – University closed – No classes at the CFE

September 10, Friday

Application for December graduation due in academic Dean’s office

September 17, Friday

Last day to withdraw from 1st 8 weeks courses

October 4, Monday, Noon

Freshmen/Sophomore midterm grades due

October 8, Friday

1st 8 weeks courses end

October 11, Monday

2nd 8 weeks courses begin

October 22, Friday

Last day to withdraw from a full semester individual course

October 25, Monday

Recommended date to apply for May 2022 graduation

October 25, Monday – December 3, Friday

Complete withdrawals only

October 25, Monday

Students should schedule appointments with advisors to prepare for advance registration.
(Required for students who have mandatory advising holds.)

November 8, Monday – November 19, Friday

Advance registration for spring semester (open only to currently enrolled students)

November 8, Monday,

Last day to withdraw from 2nd 8 weeks courses

November 8, Monday, 11:00 a.m. – 2:00 p.m.

Holiday Luncheon in the Pallottine Room

November 11, Thursday, 6:00 p.m.

Honor Society Induction in the Pallottine Room

November 12, Friday

Last day to withdraw from 2nd 8 weeks courses

November 12, Friday

Approved thesis/dissertation must be submitted to the EDT website for Graduate College review

November 20, Saturday, Noon

Residence halls close

November 22, Monday

Advance registration for spring semester (open to admitted and readmitted students)

November 22, Monday – November 26, Friday

Thanksgiving Break – classes dismissed – No classes at the CFE

November 25, Thursday – November 26, Friday

Thanksgiving Holiday – University closed

November 28, Sunday, 9:00 a.m.

Residence halls open

November 29, Monday

Classes resume

November 29, Monday – December 3, Friday

Dead week

December 3, Friday

Last class day

Last day to completely withdraw from fall semester

December 4, Saturday

Exam day for Saturday classes

Some common finals

December 6, Monday

Exam day

December 7, Tuesday

Exam day

December 8, Wednesday

Study day

Exams resume at 3:00 p.m. for Wednesday evening classes

December 9, Thursday

Exam day

December 10, Friday

Exam day

December 10, Friday 11:00 a.m. – 12:30 p.m.

Graduate Luncheon in the Pallottine Room

December 10, Friday 1:00 p.m. – 2:00 p.m.

Mandatory Pinning Practice in the Sister Celeste Lynch Auditorium

December 10, Friday 6:00 p.m.

Nursing Pinning Ceremony in the Sister Celeste Lynch Auditorium

December 11, Saturday, TBD

Winter Commencement, Mountain Health Arena

Official December graduation date

December 11, Saturday, 8:00 a.m. – 4:00 p.m.

Center for Education Orientation for new students

December 12, Sunday, Noon

Residence halls close

December 13, Monday, Noon

Final grades due

ETD must be approved by the Graduate College and all other requirements must be met for degree completion

December 23, 2021 Thursday – December 31, 2021 Friday

Winter Break – university closed

ACADEMIC CALENDAR – SPRING 2022

January 3, Monday

University reopens

January 3, Monday – January 7, Friday

Registration/schedule adjustments

January 7, Friday, 8:00 a.m. – 5:00 p.m.

Mandatory Assembly at the CFE for new and returning students

January 7, Friday, 9 a.m.

Residence halls open

January 10, Monday, 8 a.m.

First day of classes

January 10, Monday – January 14, Friday

Late registration/schedule adjustment (add-drop)

January 14, Friday

Last day to add a class

January 17, Monday

Martin Luther King, Jr. Holiday – University closed – No Classes at the CFE

January 18, Tuesday

Withdrawal (“W”) period begins

January 28, Friday

Applications for May graduation due in academic Dean’s office

February 11, Friday

Last day to withdraw from 1st 8 weeks courses

February 21, Monday, Noon

Freshmen/Sophomore midterm grades due

February 25, Friday

1st 8 weeks courses end

February 28, Monday

2nd 8 weeks courses begin

March 7, Monday

Students should schedule appointments with advisors to prepare for advance registration for summer and fall. (Required for students with mandatory advising holds.)

March 12, Saturday, Noon

Residence halls close

March 14, Monday – March 18, Friday

Spring Break – classes dismissed – No Classes at the CFE

March 21, Monday

Classes resume

March 21, Monday

Recommended date to apply for July/August 2022 graduation

March 21, Monday – March 25, Friday

Advance registration for summer sessions (open only to currently enrolled students)

March 25, Friday

Last day to withdraw from a full semester individual course

March 28, Monday

Advance registration for summer sessions begin (open to admitted/readmitted students)

March 28, Monday

Recommended date to apply for December 2022 graduation

March 28, Monday – April 22, Friday

Complete withdrawals only

March 28, Monday, 11:00 a.m. – 2:00 p.m.

Holiday Luncheon in the Pallottine Room

March 31, Thursday, 6:00 p.m.

Honor Society Induction in the Pallottine Room

April 1, Friday

Last day to withdraw from 2nd 8 weeks courses

April 1, Friday

Approved thesis/dissertation must be submitted to ETD website for Graduate College review

April 4, Monday – April 15, Friday

Advance registration for fall semester (open only to currently enrolled students)

April 18, Monday

Advance registration for fall semester begins (open to admitted/readmitted students except first-time fall undergraduates)

April 18, Monday – April 22, Friday

Dead week

April 22, Friday

Last class day

Last day to completely withdraw from spring semester

April 23, Saturday

Exam day for Saturday classes

Some common finals

April 25, Monday

Exam day

April 26, Tuesday

Exam day

April 27, Wednesday

Study day

Exams resume at 3 p.m. for Wednesday evening classes

April 28, Thursday

Exam day

April 29, Friday

Exam day

April 29, Friday 11:00 a.m. – 12:30 p.m.

Graduate Luncheon in the Pallottine Room

April 29, Friday 1:00 p.m. – 2:00 p.m.

Mandatory Pinning Practice in the Sister Celeste Lynch Auditorium

April 29, Friday 4:00 p.m.

Medical Imaging and Respiratory Pinning Ceremony in the Sister Celeste Lynch Auditorium

April 29, Friday 6:00 p.m.

Nursing Pinning Ceremony in the Sister Celeste Lynch Auditorium

April 30, Saturday, TBD at Mountain Health Arena

Commencement

Official May graduation date

May 1, Sunday, Noon

Residence halls close

May 2, Monday, Noon

Final grades due

ETD must be approved by the Graduate College and all other requirements must be met for degree completion

May 9, Monday – August 12, Friday

Summer school sessions

May 28, Saturday – May 30, Monday

University computer services unavailable

May 30, Monday

Memorial Day Holiday – University closed

July 4, Monday

Independence Day Holiday – University closed

SCHOOL OF NURSING

ADMISSION POLICY – NURSING

POLICY: All applicants must meet specified requirements to be considered for admission as a student to St. Mary's School of Nursing. All applicants must be either a high school graduate, a high school student scheduled to graduate prior to admission, or have a high school equivalent through GED testing. All applicants are strongly encouraged to take the ACT exam and submit results to the Admissions Office.

Admission is competitive. See application scoring sheet for points. Applicants are selected according to the points received.

The deadline for submitting applications is January 15 for fall admission and July 1 for spring admission. Please meet the deadline as established.

Applicants who received grades that prohibited progression in two or more nursing courses (in either a registered nurse or licensed practical nurse program at any institution) will not be considered for admission for two years after the last unsuccessful nursing course was taken.

ADMISSION PROCEDURE: Apply to Marshall University and St. Mary's School of Nursing as described below.

Applicants must be admitted to Marshall University if applying to St. Mary's School of Nursing.

The following must be submitted to Marshall University (if not already a student at Marshall University) at the following address:

Office of Admissions
Marshall University
One John Marshall Drive
Huntington, WV 25755

1. Completed MU application
2. Appropriate MU application fee
3. Official high school transcript
4. Official transcripts from ALL colleges and universities attended
5. ACT score if taken (Marshall University code is 4526)

The following must be submitted / completed by the aforementioned deadlines to the Center for Education at the following address:

Admissions Office
St. Mary's Medical Center – Center for Education
2900 First Avenue
Huntington, WV 25702

1. Completed St. Mary's School of Nursing application found on the web page at <http://www.st-marys.org>. Go to "Education & Training" tab. Click on "School of Nursing". The application form is found on that page.
2. If application is mailed, application fee of \$30, which is non-refundable must be included (check or money order, no cash please).
3. If application is hand delivered, application fee of \$30, which is non-refundable, must be paid at St. Mary's Medical Center on the 3rd Floor Business Office.
4. Official high school transcript or GED.
5. Official transcript from ALL colleges or universities attended, including Marshall University. ACT scores, if taken, (St. Mary's code is 4551). If the ACT has not been taken, contact Marshall University for dates of administration.
6. Signed the Code of Conduct Statement and the Drug & Alcohol Testing statement contained in the application.
7. Call the CFE at 304-526-1423 to schedule the TEAS exam.

A. HIGH SCHOOL SENIORS AND APPLICANTS WHO HAVE COMPLETED LESS THAN 12 COLLEGE CREDIT HOURS MUST HAVE THE FOLLOWING:

1. A minimum high school GPA of 3.00.
2. An overall 2.00 GPA or better on any college courses completed.
3. An overall 2.00 GPA on all courses completed at Marshall University.
4. ACT score, if taken, sent to the Center for Education at the address above.
5. Taken the TEAS exam.

NOTE: It is recommended that high school students take a college prep track and take advanced courses whenever possible.

B. GED APPLICANTS MUST HAVE THE FOLLOWING:

1. Met criteria for GED admission as stated in the Marshall University catalog.
2. Completed 12 college semester credit hours, which must be 100 level or above courses and be taken for a grade. The grades must be "C" or above.
3. An overall 2.00 GPA or better on any college courses completed.
4. An overall 2.00 GPA on all courses completed at Marshall University.
5. ACT score, if taken, sent to the Center for Education at the address above.
6. Requested that GED Certification be sent to both St. Mary's School of Nursing and Marshall University.
7. Taken the TEAS exam.

C. APPLICANTS WITH AT LEAST 12 HOURS OF COLLEGE CREDIT MUST HAVE THE FOLLOWING:

1. A high school diploma or GED.
2. An overall 2.00 GPA or better on any college courses completed.
3. An overall 2.00 GPA on all courses completed at Marshall University.
4. ACT score, if taken, sent to the Center for Education at the address above.
5. Taken the TEAS exam.

D. APPLICANTS REQUESTING TRANSFER FROM ANOTHER RN NURSING PROGRAM MUST HAVE THE FOLLOWING:

1. An overall 2.00 GPA or better on all courses completed.
2. An overall 2.00 GPA on all courses completed at Marshall University.
3. ACT score, if taken, sent to the Center for Education at the address above.
4. A copy of all course syllabi for the completed nursing courses at the previous nursing school.
5. Paid a \$75 transfer consideration fee.

NOTE: Transfer applicants will be evaluated on an individual basis.

E. APPLICANTS WHO ARE LPNS AND ARE SEEKING ADMISSION MUST HAVE THE FOLLOWING:

1. An overall 2.00 GPA or better on all courses completed.
2. An overall 2.00 GPA on all courses completed at Marshall University.
3. ACT score, if taken, sent to the Center for Education at the address above.
4. Sent an official transcript from the LPN program to St. Mary's School of Nursing
5. An unencumbered LPN license.

If any applicant earns a D, F, or W in a required pre-entry course (BSC 227, CHM 205, ENG 101, and/or PSY 201), the applicant may still be accepted into the program provisionally given the applicant completes all of these courses with a C or better prior to the first day of the first nursing course.

If any applicant earns a D, F, or W in any other required support course(s), the applicant may be eligible for admission but must 1 retake and earn a C or greater in the required support course(s) per the normal course progression regarding co-requisite or prerequisite placement.

F. ADDITIONAL INFORMATION FOR ADMISSION TO ST. MARY'S SCHOOL OF NURSING:

A "C" grade or better is required for each of the courses transferring for credit toward the requirements for the nursing program. CLEP credit is also accepted for some courses. St. Mary's School of Nursing and Marshall University reserve the right to accept or reject individual non-major courses that are other than those listed in the nursing curriculum. It is the applicant's responsibility to assure all transcripts, fees, etc. are present at both St. Mary's Center for Education and Marshall University. Applicants missing information will not be considered. Applicants will be notified concerning their acceptance.

G. ALL APPLICANTS TO THE SCHOOL OF NURSING MUST BE ABLE TO MEET THE PHYSICAL, EMOTIONAL, AND FUNCTIONAL DEMANDS OF A NURSING POSITION.

THE CRITERIA FOLLOW: Applicants need to be aware that nursing and nursing education can be rigorous and physically, mentally, and emotionally demanding. A healthy status in all areas is essential for completion of the program. The public expects the professional nurses have been prepared to provide safe and effective care. The Americans with Disability Act (ADA) provides the legal framework to guide these responsibilities. If you are a student who has a disability requiring special accommodations, notify the Coordinator of Academic Support within the first two (2) weeks of class.

Aptitudes considered to be occupationally significant for satisfactory performance are as follows:

- Reading/verbal ability to read and understand meanings of words and ideas associated with them and to use them effectively. Must be able to present information and ideas clearly.
- Writing ability to write with proper grammar and spelling.
- Numerical ability to perform arithmetic operations quickly and accurately.
- Form perception ability to perceive pertinent details in objects, pictorial or graphic material; to make visual comparisons and discriminations and see slight differences in shapes and shadings of figures with widths and lengths of lines.
- Motor coordination to coordinate eyes and hands or fingers rapidly and accurately in making precise movements with speed, as well as the ability to make movement responses accurately and quickly.
- Finger dexterity to move fingers and manipulate small objects with the fingers rapidly and accurately.
- Manual dexterity to move hands easily and skillfully and work with hands in placing and turning motions.
- Eye-Hand-Foot coordination to move the hand and foot coordinately with each other in accordance with visual stimuli.
- Color discrimination to perceive or recognize similarities or differences in colors, or in shades or other values of the same color; to identify a particular color, or to recognize harmonious or contrasting color combinations or to match colors accurately. Deficiencies in this area will be evaluated on an individual basis.
- Temperaments considered significant for satisfactory performance are situations involving:
 - Communications with patients and the public, whether on the telephone, in writing or in person.
 - A variety of duties often characterized by frequent change.
 - Repetitive or short-cycle operations carried out according to set procedures or sequences.
 - The direction, control, and planning of an entire activity or the activity of others.
 - The necessity of dealing with people in actual job duties beyond giving and receiving instructions.
 - Influencing people in their opinions, attitudes, or judgments about ideas of things.
 - Performing adequately under stress when confronted with the critical or unexpected.
 - The evaluation of information against sensory or judgmental criteria.
 - The evaluation of information against measurable or verifiable criteria.
 - The interpretation of feelings, ideas, or facts in terms of personal view point.
 - The precise attainment of set limits, tolerances, or standards.
- Physical Demands include the following:
 - Reaching – extending the hands or arms in any direction.
 - Handling – seizing, holding, grasping, turning or otherwise working with the hand or hands.
 - Fingering – picking, pinching or otherwise working with the fingers primarily.
 - Feeling – perceiving such attributes of objects and materials as size, shape, temperature, or texture by means of receptors in the skin, particularly those of the fingertips.
 - Talking – expressing or exchanging ideas by means of the spoken word.
 - Hearing – perceiving the nature of sounds by the ear; must be able to hear assessment sounds with or without assistive devices.
 - Acuity – near-clarity of vision at 20 inches or less with or without assistive devices.
 - Depth perception – 3 dimensional vision to judge distance and space relationships so as to see objects where and as they actually are.
 - Field of vision – the area that can be seen up and down or to the right or left while the eyes are fixed at a given point.
 - Accommodation – adjustment of the lens of the eye to bring an object into sharp focus.
 - Color vision – the ability to identify and distinguish colors. Deficiencies in this area will be evaluated on an individual basis.
 - Lifting from the waist to overhead – frequently 11-24 pounds; occasionally 20-50 pounds.
 - Lifting from floor to waist – frequently 35-50 pounds.
 - Carrying – frequently 35-50 pounds.
 - Pushing – occasionally up to and over 100 pounds.
 - Bending/Stooping – frequently.
 - Balancing – continuously.
 - Pushing/Pulling – frequently.
 - Walking and Standing – frequently.
 - Climbing – occasionally.

NOTE: This description reflects the general details considered necessary to describe the principle functions of the physical demands for this program.

Formulated: Fall 2004

Revised: Spring 2005, 7/10, 8/12, 12/14; 7/15, 7/20, 7/21

Reviewed: January 2010; 7/17, 7/18; 6/19; 5/20

DISABILITY STATEMENT

- St. Mary's Center for Education, along with Marshall University, is committed to equal opportunity in education for all students. To receive an academic accommodation, students should provide documentation to any or all of the following programs: the Office of Disability Services, College Program for Students with Autism Spectrum Disorders, Higher Education for Learning Problems (HELP) Center and/or Buck Harless Student-Athlete Program Office. Following this, Disability Services will notify the Vice President of Schools of Nursing and Health Professions (VPSONHP) at St. Mary's Center for Education outlining the recommended academic accommodation(s) the student will need. The VPSONHP or designee and faculty at SMMC Center for Education will meet with the student to discuss how the accommodation(s) requested will be provided. For more information, please visit <http://www.marshall.edu/disabled> or contact Marshall University Office of Disability Services.

Revised: 11/2019

Reviewed: 5/2020; 7/21

ST. MARY’S/MARSHALL UNIVERSITY COOPERATIVE ASN

ENTRANCE EXAM (TEAS)

The Test of Essential Academic Skills (TEAS) assesses basic academic skills in the areas of reading, mathematics, science, and English and language usage. All applicants must take this exam (TEAS) which will be administered at the CFE via computer.

| COMPONENT | TIME ALLOWED IN MINUTES | NUMBER OF QUESTIONS |
|------------------|-------------------------|---------------------|
| Reading | 58 | 48 |
| Mathematics | 51 | 34 |
| Science | 66 | 54 |
| English/Language | 34 | 34 |

The total time allowed for the test is 209 minutes. The TEAS is composed of 170 multiple choice questions, however 20 are unscored, pre-test questions. Each question has four options. Questions not answered count against the student.

CREATING AN ATI ACCOUNT

All applicants will create an account when they come to the Center for Education (CFE, 29th Street and 5th Avenue) to take the exam. The student must know his/her Marshall University 901 number.

COST OF THE TEST

The cost of the test is \$65 and is non-refundable. Checks may be made payable to “St. Mary’s School of Nursing”.

PREPARING FOR THE TEAS

The following items are available for purchase at <http://www.atitesting.com> for an additional cost.

- Learning Strategies: Your guide to Classroom and Test-Taking Success
- TEAS Pre-Test Study manual
- TEAS Online Practice Test (2 versions)

SCHEDULING THE TEAS

The student must call 304-526-1423 and schedule the exam. A notice of 48 hours is required to reschedule a second testing date. Rescheduling of a missed exam will be on a space available basis.

TAKING THE EXAM

Please arrive at the CFE a minimum of 15 minutes before the scheduled exam time. The applicant will not be permitted into the exam room if arriving late.

The examination will take approximately 4 hours.

Paper and pencils will be provided for use during the exam.

Giving, receiving, or exchanging information while the examination is in progress is not permitted under any circumstances.

Examinees are not permitted to review study material and/or notes of any kind during the examination.

The following items are prohibited from the examination room:

- Food, drink, candy or gum
- Books or notes of any kind
- Sunglasses, hats, or any jacket or shirt with a hood
- Cell phones, pagers, beepers, or PDA
- Headsets, ear plugs, or any form of media player
- Calculators
- Recording or listening devices
- All watches
- Mechanical pencils, rules, slide rules or compasses
- Purses, backpacks, computer bags, satchels, etc.

The proctor has the authority to terminate an exam for any individual not adhering to the above rules.

SPECIAL TESTING ARRANGEMENTS

If the applicant has a diagnosed learning disability or other reason which prevents the applicant from taking the TEAS under standard conditions, the applicant may request special accommodations. Applicants requesting special accommodations for learning/testing are to contact the Office of Disability Services in Prichard Hall, 117, 304-696-2467, at Marshall University. Applicants must provide documentation of their disability to the Director of Disability Services, who will notify the School of Nursing outlining the accommodations needed.

SCORING

Points will be assigned based on the preparedness level earned. In order to be considered for admission, the applicant must have achieved a level of basic, proficient, advanced or exemplary in the ATI Academic Preparedness Category. Applicants earning a rating of Developmental will not be considered for admission.

Admission is competitive. Achieving a level of basic or higher does not guarantee admission.

See scoring sheet for information related to points awarded for the academic preparedness level.

RETESTING

If an applicant does not achieve the desired preparedness level, the applicant may request to retest. The TEAS score is valid for one year from the date last taken. The exception would be if the TEAS Exam has been revised by the company.

DATES AND TIMES FOR TEAS V EXAMS FOR ADMISSION

Call 304-526-1423 to schedule the exam. All examinations are held at the Center for Education, located at 2853 5th Avenue, Huntington, WV 25702. All applicants may park on the parking lot associated with the CFE.

END OF PROGRAM STUDENT LEARNING OUTCOMES

Upon completion of the program, the graduate will:

Professional Behaviors

Exemplify moral, ethical, and legal standards in the role of the professional nurse.

Patient Centered Care

Provide compassionate, coordinated care based on the patient's preferences, values and needs.
Advocate for patients, recognizing the patient or designee as the source of control.

Teamwork and Collaboration

Participate cooperatively within nursing and inter-professional teams, fostering open communication, mutual respect and shared decision-making to achieve quality patient care.

Evidence-based Practice

Integrate best current evidence with clinical practice to meet individualized patient needs and organizational goals for delivery of optimal health care.

Quality Improvement

Formulate a plan based on analysis of data in order to improve the quality and safety of health care.
Improve the quality and safety of health care based on analysis of patient and process data.

Safety

Reduce the risk of harm within the environment of care through organizational processes and individual performance.

Informatics

Integrate patient care technologies, information systems, and communication devices to support safe nursing practice.

11/99

5/10/00

Reviewed 5/05, 3/10, 5/20, 7/21

Revised: 7/10, 8/12, 7/15, 7/17; 8/18; 6/19; 12/19

ST. MARY'S SCHOOL OF NURSING MISSION AND PHILOSOPHY

MISSION STATEMENT

In addition to supporting the missions of both Marshall University and St. Mary's Medical Center, the mission of the School of Nursing is to prepare safe and competent professional nurses who provide high quality patient centered care, respecting the worth and dignity of human life.

PHILOSOPHY & GUIDING CONCEPTS

The philosophy and organizing concepts of St. Mary's/Marshall University Cooperative ASN Program are consistent with the philosophy and mission of both Marshall University and St. Mary's Medical Center. This philosophy expresses the faculty's commitment to quality and excellence in nursing education. The philosophy is grounded in the St. Mary's Medical Center values which are

- Compassion-showing loving concern and understanding for the needs of the whole person.
- Hospitality-a warm, helpful and welcoming attitude toward all persons.
- Reverence-respect for the God-given dignity of each person.
- Interdependence-cooperation and collaboration among all members of our health care community.
- Stewardship- responsible use of and accountability for our human, material and financial resources.
- Trust-integrity, truthfulness and straight-forwardness in relationships.

These values are consistent with the NLN values of caring, diversity, integrity, excellence, ethics, holism and patient-centeredness.

Professional nursing is both a caring art and a science. It is a blend of scientific knowledge, nursing theory and clinical practice. The nurse assumes the roles of provider and manager of care in a variety of health care settings. The ultimate role of nursing is to assist patients to achieve an optimal level of health.

The program is based on faculty beliefs regarding the role of the professional nurse in providing patient-centered care, evidence based practice, quality improvement, safety, informatics, teamwork and collaboration:

The nurse demonstrates **Professional Behaviors** through the implementation of integrity, responsibility, moral, ethical, and legal practices in providing advocacy and safe quality care for patients and families (NLN, 2021).

The nursing process provides the framework for provision of patient care (ANA, 2021). **Patient-centered care** is the recognition that the patient or designee is the source of control and full partner in providing compassionate and coordinated care based on respect for patient preference, values and needs. (QSEN, 2021) Patient values guide all clinical decisions (National Academy of Medicine, 2021). Holistic patient centeredness reflects the uniqueness of an individual patient's background, diversity, values, traditions and family. A patient centered approach

supports optimal outcomes by involving patients and those close to them in decisions about clinical care. (NLN, 2021) Patient centered care supports the respectful, efficient, safe and well-coordinated transition of the patient through all levels of care (NLN, 2021).

In order to deliver patient-centered care, nursing practice must integrate **Evidence-Based Practice**. Evidence based practice is the integration of best clinical practice, research evidence, nursing expertise, and the values and preferences of individuals, families and communities served (National Academy of Medicine, 2021).

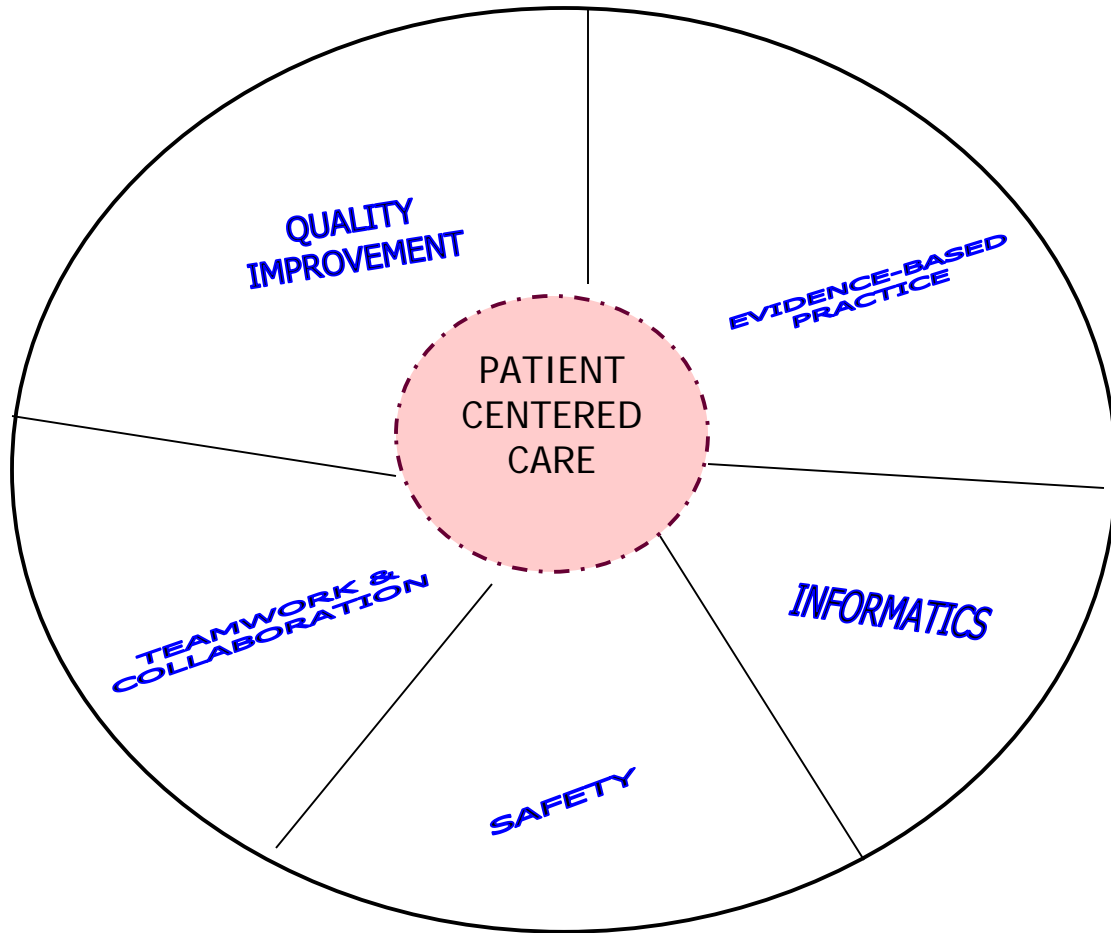
Professional nurses have an ethical obligation to improve health care through the application of **Quality Improvement** activities. Quality improvement is the use of data to monitor the outcomes of care processes and uses improvement methods to design and test changes to continuously improve the quality and safety of health care systems (QSEN, 2021).

Safety is the avoidance of injury or harm and is essential for the provision of all health care. Safety is necessary for nursing practice within ethical, legal and regulatory frameworks. Application of safety principles minimizes risk of harm to individuals, populations and providers through system effectiveness and individual performance (QSEN, 2021)

The use of **Informatics** is integral to the provision of safe patient care. Informatics is the use of information and technology to communicate, manage knowledge, mitigate errors, and support decision making (QSEN, 2021).

A culture of integrity and ethical behavior is essential for the development of **Teamwork and Collaboration** in order to achieve quality patient care. To insure that care is continuous and reliable, nurses must function effectively within nursing and inter-professional teams, foster open communication, mutual respect, and shared decision-making (QSEN, 2021).

NURSING PROCESS AND PROFESSIONAL BEHAVIORS



KNOWLEDGE
NURSING THEORY
CLINICAL PRACTICE

| | |
|--|---|
| <p>SMMC VALUES</p> <ul style="list-style-type: none">-COMPASSION-HOSPITALITY-REVERENCE-INTERDEPENDENCE-STEWARDSHIP-TRUST | <p>NLN CORE VALUES</p> <ul style="list-style-type: none">-CARING-DIVERSITY-EXCELLENCE-PATIENT CENTEREDNESS-ETHICS-INTEGRITY-HOLISM |
|--|---|

DESCRIPTION OF CONCEPTUAL MODEL

The conceptual model serves as a guiding framework for curriculum development, provision of education and evaluation of achievement of student learning outcomes.

The base depicts the values which are the foundation of the school. SMMC values are Compassion, Hospitality, Reverence, Interdependence, Stewardship, and Trust. NLN core values include Caring, Diversity, Holism, Integrity, Ethics, Excellence and Patient Centeredness.

The trunk/pedicle/stalk demonstrates that nursing knowledge, theory and clinical practice provide the direction for development of the curriculum. These essential elements for nursing education flow from the basic or core values.

The inner circle depicts patient centered care as the central element of nursing practice and education. The circle remains intermittent to signify the interdependent relationship with the outer constructs in an ongoing dynamic interaction.

The outer circle displays the core competencies of Evidence-based Practice, Informatics, Quality Improvement, Teamwork & Collaboration, and Safety as constructs that influence nursing practice and the care provided to each individual patient.

Depicted as the surrounding for the outer circle are the components of the nursing process and professional behaviors. These components encompass the whole of nursing practice and serve as the basis for interaction with each patient.

Approved 4/18/94

Revised 6/02/94, 5/96, 7/15; 8/17; 8/18

Reviewed 4/16/01, 5/05, 7/07, 3/10, 7/10, 8/12; 6/19; 5/20; 7/21

PROGRAM REQUIREMENTS

Graduation from the program requires successful completion, with a grade of “C” or higher, of seventy two (72) credit hours. Forty two (42) credit hours are nursing courses and thirty (30) credit hours are support courses. A GPA of 2.00 or higher is required for graduation.

| | |
|--------------------------------------|-----------|
| Prior to First Nursing Course | |
| BSC 227 (Anatomy) | 4 Credits |
| CHM 205 (Chemistry) | 3 Credits |
| ENG 101 (Composition I) | 3 Credits |
| PSY 201 (Introduction to Psychology) | 3 Credits |
| 13 Credits | |

| | |
|------------------------------------|-----------|
| First Semester | |
| BSC 228 (Physiology) | 4 Credits |
| PSY 311 (Developmental Psychology) | 3 Credits |
| DTS 210 (Nutrition) | 3 Credits |
| NUR 120 (Introduction to Nursing) | 8 Credits |
| Total 18 Credits | |

| | |
|--------------------------------|-----------|
| Second Semester | |
| BSC 250 (Microbiology) | 4 Credits |
| NUR 220 (Health Alterations I) | 8 Credits |
| NUR 225 (Psychiatric Nursing) | 4 Credits |
| Total 16 Credits | |

| | |
|------------------------------------|-----------|
| Third Semester | |
| NUR 230 (Health Alterations II) | 7 Credits |
| NUR 235 (Maternal / Child Nursing) | 6 Credits |
| Total 13 Credits | |

| | |
|----------------------------------|-----------|
| Fourth Semester | |
| NUR 241 (Health Alterations III) | 9 Credits |
| ENG 201 (Composition II) | 3 Credits |
| Total 12 Credits | |

| | |
|---------------------------------|------------|
| Required Credits for Graduation | |
| Nursing Courses | 42 Credits |
| Support Courses | 30 Credits |
| Total 72 Credits | |

Credit Hour

One lecture credit hour is given for each 15 classroom contact hours, plus necessary outside preparation. For nursing courses, one laboratory credit hour requires at least 45 hours of laboratory work per credit hour, plus necessary outside preparation. Laboratory experiences are complements to classroom courses that focus on the theory and principles of the discipline.

Formulated: Prior to 5/2002

Reviewed: 8/12, 8/16; 6/19; 5/20

Revised: 6/02, 5/03, 5/04, 5/05, 5/06, 4/08, 3/10, 7/10, 12/12, 6/15, 7/17, 8/18; 7/20, 7/21

COURSE DESCRIPTIONS

PR – Pre-requisite

CR – Co-requisite

SCHOOL OF NURSING

NURSING 120, INTRODUCTION TO NURSING, 8 Credits (6 theory; 2 clinical)

Introduce the nursing role and use of the nursing process in assisting adult patients to meet basic needs. Clinical included.

(PR – BSC 227, CHM 205, ENG 101, PSY 201; CR –BSC 228, DTS 314/210, PSY 311)

NURSING 220, HEALTH ALTERATIONS I, 8 Credits (6 theory; 2 clinical)

Focus is on nursing care of adult patients responding to potential and actual health alterations. Clinical included.

(PR – NUR 120 and ASSOCIATED CRs; CR – BSC 250)

NURSING 225, PSYCHIATRIC NURSING, 4 Credits (3 theory; 1 clinical)

Focus is on the nursing role in caring for patients with alterations of psychosocial functioning. Clinical included.

(PR – NUR 120 and ASSOCIATED CRs)

NURSING 230, HEALTH ALTERATIONS II, 7 Credits (5 theory; 2 clinical)

Focus is on nursing care of adult patients with health alterations of specific physiological systems. Role requirements and processes utilized in managing groups of patients is introduced. Clinical included.

(PR – NUR 220 and NUR 225 and ASSOCIATED CRs)

NURSING 235, MATERNAL-CHILD NURSING, 6 Credits (4 theory; 2 clinical)

Focus is on the nursing role utilized in promoting health and caring for the child bearing family and pediatric patients. Clinical included.

(PR – NUR 220 and NUR 225 and ASSOCIATED CRs)

NURSING 241, HEALTH ALTERATIONS III, 9 Credits (4 theory; 5 clinical)

Focus is on nursing care of adult patients with health alterations of specific physiological systems. Clinical included.

(PR – NUR 230 and NUR 235 and ASSOCIATED CRs; CR ENG 201)

Revised: 9/05, 6/06, 7/07, 12/12, 6/15, 8/16, 8/18

Reviewed: 5/05, 3/10, 7/10, 8/12; 8/17; 6/19; 5/20, 7/21

RATIONALE FOR COURSE PLACEMENT

- PSY 201 Basic psychology helps explain the human behavior in response to illness.
- BSC 227 Principles of normal human anatomy are required to understand basic human needs.
- CHM 205 General, Organic and Biochemistry is necessary for a basic understanding of the physiological functioning of the human body that is taught in all nursing courses.
- ENG 101 Written communication skills are important throughout a professional discipline.
- DTS 314/210 Nutrition provides a basis for the understanding of the body's utilization of nutrients and how this may be affected by health alterations that are taught in all nursing courses.
- BSC 228 Principles of normal human physiology are required to understand basic human needs and pathophysiology.
- PSY 311 Child Development explains principles of developmental stages covering specific age groups.
- NUR 120 Introduction to Nursing provides the fundamental concepts involved in the basic role of the nurse.
- BSC 250 Microbiology provides basic concepts that relate to infection control and aseptic technique that is used throughout nursing practice.
- NUR 220 Health Alterations I provides concepts of alterations in physiological functioning and other knowledge basic to the nursing role.
- NUR 225 This course builds on concepts introduced in PSY 201, and provides principles of alterations in psychosocial functioning.
- NUR 230 This course continues with the concepts of alterations in physiological functioning in increasing complexity. Further requirements of the nursing role are presented.
- NUR 235 This course utilizes knowledge presented in all previous courses to understand the physiological and psychosocial processes for the maternal-child patient.
- ENG 201 This course allows the student to build on written communication skills.
- NUR 241 This course utilizes all previous knowledge for understanding complex alterations in physiological functioning. Provisions are made for practical application of nursing roles in the transition phase of student to graduate.

Revised: 6/2004, 10/2005, 6/2006, 8/2012, 6/15, 7/16, 8/18

Reviewed: 7/10; 8/17; 6/19; 5/20, 7/21

MARSHALL UNIVERSITY COURSE DESCRIPTION SUPPORT COURSES

BIOLOGICAL SCIENCE 227 – Human Anatomy – 4 credit hours

Principles of gross and microscopic anatomy of human body systems and their development.

BIOLOGICAL SCIENCE 228 – Human Physiology – 4 credit hours

Basic concepts of human physiology, including an introduction to physiological control mechanisms operating at cellular, tissue, organ, and systems level.

BIOLOGICAL SCIENCE 250 – Microbiology and Human Disease – 4 credit hours

Introduction to microbiology with emphasis on the role of microorganisms in the disease process.

CHEMISTRY 205 – General, Organic and Biochemistry – 3 credit hours

An introduction to chemical science, its development, basic concepts and interrelationships with other sciences.

ENGLISH 101 – English Composition I – 3 credit hours

Introduction to academic writing with emphasis on writing as a multi-stage process, critical thinking, and fundamental research strategies and skills.

ENGLISH 201 – English Composition II – 3 credit hours

Academic writing with an emphasis on research related writing and higher levels of critical thinking and reading. (Not open to Juniors and Seniors.)

NUTRITION 314/210 – Nutrition – 3 credit hours

Principles of human nutrition and their application to healthy individuals and to the treatment and prevention of disease.

PSYCHOLOGY 201 – General Psychology – 3 credit hours

Principles and methods in the scientific study of behavior.

PSYCHOLOGY 311 – Child Development – 3 credit hours

Psychological characteristics and personal and social problems of developmental periods.

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WEST VIRGINIA BOARD OF EXAMINERS FOR REGISTERED PROFESSIONAL NURSES AND THE NCLEX-RN

Dr. Sara Palmer, DNP, RN
Executive Director

email: info@board.wv.gov
web address: www.board.wv.gov



TELEPHONE:

204-744-6601

FAX: 204-744-0600

STATE OF WEST VIRGINIA BOARD OF EXAMINERS FOR REGISTERED PROFESSIONAL NURSES

80 MacCorkle Ave., SW, Suite 203
South Charleston, WV 25303

Date: June 27, 2017

To Prospective Nursing Applicant:

Individuals who are considering entering the nursing profession and who may have a criminal history often ask about potential barriers to licensure following successful completion of an approved nursing program. While it would be nice to know this prior to making a decision to enter the program, obtaining that information is not possible under current West Virginia law.

The West Virginia Board of Examiners for Registered Professional Nurses (Board) makes decisions about licensure based upon a number of questions on the application and on an individual basis. The application (or the background screening) that indicates a criminal history is considered a non-routine application and must be reviewed by the Board staff and possibly referred to the Board's Disciplinary Review Committee (DRC).

Each application is reviewed on its own merits. The Board of Nursing has created guidelines for specific offenses to be approved in the Board office; however, the staff cannot make determinations in advance as laws and rules do change over time. Felony convictions, violent crimes, other more serious misdemeanors and repeat offenders are required to go before the DRC. Simple misdemeanors, such as some traffic violations, loitering and disturbing the peace can be approved by the disciplinary section of the Board. Any evidence of rehabilitation is important to the Board members when making a licensure decision.

Board applications require the applicant to provide the Board with an original certified copy of all court documents relative to a conviction. This means the applicant must go to the county or other appropriate authority where the conviction occurred and have the clerk of the court certify with a raised seal that the documents are a complete copy of the record. Applicants cannot pick and choose what documents are provided to the Board. A complete copy of the criminal record must be provided. The Board's applications require the applicant to provide a letter of explanation as to the events surrounding the conviction. This means the applicant must write in his/her own words what happened to cause the conviction.

Board applications also require an applicant who has a drug or alcohol problem to provide to the Board a copy of all treatment records. The applicant must sign a release with the treatment provider and have the documents sent directly from the provider to the Board office. A letter of explanation from the

applicant must also be provided with this information. This letter should explain the applicant's history of use/abuse of drugs and/or alcohol and his/her progress since treatment.

The Board may issue a license under probationary conditions, which could include direct supervision, random drug screens, employer reporting, counselor reporting and other necessary monitoring requirements. Further, the Board may deny licensure until certain requirements are met. The law allows the Board to require applicants to submit to a physical or psychological examination and to have the results of the examination provided directly to the Board. Refusal to submit to an examination when required will result in the application being denied. Applicants who qualify may be referred to the Board's monitoring and recovery program West Virginia Restore.

Each school of nursing makes independent decisions about admissions into their program and may require criminal background screening as part of that process. It is important for schools of nursing to know the admissions policies that exist on their campuses relative to criminal convictions and drug and alcohol use/abuse. Administrators should know the policy and actively enforce it. For those nursing programs without crucial admissions policies, administrators need to lobby the campus leaders to create realistic policies that can guide the individual programs as they make admission decisions. The School's general counsel should be contacted for assistance.

Clinical facilities may limit or prohibit students with criminal histories from participating in clinical experiences. Other options may not exist for the student to complete required clinical hours in order to obtain a nursing degree; thus, such a student may not be eligible for licensure in West Virginia.

As stated above, the license application requires disclosure of any criminal history and the disposition of all cases prior to Board review. Acceptance into a nursing education program is the decision of the school. Entering and staying in the nursing education program is the prospective student's decision based upon the knowledge that he/she may, or may not, be granted a nursing license by West Virginia. However, every state has its own requirements, so an applicant may be licensed in another state even if West Virginia denies licensure. All of the above factors should be taken into consideration prior to making a decision about a nursing career.

For more information, obtain the West Virginia Nursing Code and Legislative Rules, by visiting www.wvrbboard.wv.gov.

PROGRAM OUTCOMES/DISCLOSURE

**NCLEX-FIRST- TIME PASS RATE
By Calendar Year**

| YEAR | PROGRAM NCLEX PASS RATE | |
|-----------------------------|-------------------------|---------|
| | Percent | n= |
| Jan 1 - Dec 31, 2020 | 89.32 | 92/103 |
| Jan 1 – Dec 31, 2019 | 96.33% | 105/109 |
| Jan 1 – Dec 31, 2018 | 95.05% | 96/101 |
| Jan 1 – Dec 31, 2017 | 89.66% | 78/87 |

**NCLEX-FIRST- TIME PASS RATE
By Cohort**

| CLASS OF | PROGRAM NCLEX PASS RATE | |
|---------------|-------------------------|---------|
| | Percent | n= |
| December 2020 | 79.63 | 43/54** |
| May 2020 | 89.36 | 42/47 |
| December 2019 | 89.29 | 50/56 |
| May 2019 | 96.42 | 54/56 |
| December 2018 | 96.23 | 51/53* |
| May 2018 | 94.74 | 54/57 |
| December 2017 | 97.62 | 41/42 |
| May 2017 | 90.24 | 37/41 |
| December 2016 | 89.13 | 41/46 |
| May 2016 | 91.30 | 42/46 |
| December 2015 | 93.10 | 27/29 |
| May 2015 | 98.11 | 52/53 |
| | | |

* One student from the cohort of Dec 2018, which included 54 students, have not taken NCLEX at the time of data collection (4/28/2021)

**One student form the cohort of Dec 2020, which included 55 students, has not taken NCLEX at the time of data collection (7/6/2021)

PROGRAM COMPLETION PERCENTAGE By Cohort

| % of SNs Who Completed Program in: | ENTERED FALL 2019 – ON TIME 2-YR GRADUATION MAY 2021 | ENTERED SPRING 2019 – ON TIME 2-YR GRADUATION DECEMBER 2020 | ENTERED FALL 2018 – ON TIME 2-YR GRADUATION MAY 2020 | ENTERED SPRING 2018 – ON TIME 2-YR GRADUATION DEC 2019 | ENTERED FALL 2017 – ON TIME 2-YR GRADUATION MAY 2019 | ENTERED SPRING 2017 – ON TIME 2-YR GRADUATION DEC 2018 |
|------------------------------------|--|---|--|--|--|--|
| Number Entered | 77 | 73 | 72 | 73 | 73 | 75 |
| 2 YEARS (100% of allotted time) | 60% | 67% | 58% | 67% | 63% | 63% |
| 2 ½ YEARS (125% of allotted time) | 82% (projected) | 81% | 71% | 73% | 68% | 75% |
| 3 YEARS (150% of allotted time) | 86% (projected) | 85% (projected) | 75% | 75% | 68% | 79% |

PROGRAM COMPLETION PERCENTAGE By Year

| | Entered 2019 | Entered 2018 | Entered 2017 | Entered 2016 | Entered 2015 |
|----------------------|-----------------|--------------|--------------|--------------|--------------|
| Number Entered | 150 | 145 | 148 | 139 | 120 |
| 2 YEAR COMPLETION | 64% | 62% | 63% | 58% | 60% |
| 2 ½ YEARS COMPLETION | 81% (projected) | 72% | 72% | 70% | 71% |
| 3 YEARS COMPLETION | 85% (projected) | 75% | 74% | 76% | 73% |

PROJECTED EXPENSES

NURSING CLASSES ONLY

| | | | |
|-------------------------------------|--------------|-------------------------------------|----------------------|
| <u>FIRST SEMESTER</u> | | <u>THIRD SEMESTER</u> | |
| Tuition: 8 credits | \$2,720 | Tuition: 13 credits | \$4,080 |
| Uniform | \$150 | Learning Resources | \$750 |
| Learning Resources | \$2,080 | <u>Background Check/Drug Screen</u> | <u>\$100</u> |
| <u>Background Check/Drug Screen</u> | <u>\$100</u> | Total: | \$4,930 |
| Total: | \$5,050 | | |
| <u>SECOND SEMESTER</u> | | <u>FOURTH SEMESTER</u> | |
| Tuition: 12 credits | \$4,080 | Tuition: 9 credits | \$3,060 |
| Learning Resources | \$965 | Learning Resources | \$285 |
| Total: | | <u>Graduation Expenses</u> | <u>\$100 - \$400</u> |
| | \$5,045 | Total: | \$3,445 - \$3755 |

NOTE: These expenses do **NOT** reflect the cost of the non-nursing courses.

Students will receive an invoice from St. Mary's School of Nursing for nursing courses to be taken at St. Mary's CFE. Students taking non-nursing courses at Marshall University will receive an invoice from MU for those courses.

Payment is expected on the designated due date. If payment is not received, additional late payment fees will be added.

Tuition is paid directly to SMMC-SON. Students who receive financial aid from Marshall may receive aid the first week of classes, but must contact the Financial Aid office early in order to do so. Students may be granted a short-term extension in fee payment under extenuating circumstances.

Despite any policy to the contrary, for any students using U.S. Department of Veterans Affairs (VA) Post 9/11 G.I. Bill® (Ch. 33) or Vocational Rehabilitation and Employment (Ch. 31) benefits, while payment to the institution is pending from the VA, we will not:

- Prevent their enrollment;
- Assess a late penalty fee to;
- Require they secure alternative or additional funding;
- Deny their access to any resources (access to classes, libraries, or other institutional facilities) available to other students who have satisfied their tuition and fee bills to the institution.

However, to qualify for this provision, such students may be required to:

- Produce the VA's Certificate of Eligibility by the first day of class;
- Provide written request to be certified;
- Provide additional information needed to properly certify the enrollment as described in other institutional policies (see our VA School Certifying Official for all requirements).

SCHOOL OF RESPIRATORY CARE

MISSION STATEMENT

We prepare students to become respiratory therapists who believe each individual is of importance and worth.

VISION STATEMENT

To provide all respiratory care students with the best learning environment and to assist them in becoming successful in the field of respiratory care.

STATEMENT OF PHILOSOPHY

PERSON

Each person is a unique individual, capable of rational thoughts and self-directed behaviors, with physiological, psychosocial and spiritual needs. Each individual has a varying capacity to respond to environmental changes. A person's response to environmental changes affects the ability to meet basic needs. Basic needs are defined as those physiological, psychosocial and spiritual requirements that are essential to optimal health throughout the life span.

ENVIRONMENT

Environment is the surroundings, conditions and influences which affect the individual. There are interacting and reciprocal processes within the environment which continually occur and affect individuals. People in the environment are often joined in social networks of families, groups and communities.

HEALTH

Health is a dynamic state which is dependent on genetic, physical, emotional and sociocultural factors. A person's state of health is determined by responses to environmental factors that affect the ability to meet basic needs. Unmet basic needs result in alterations in physiological and psychosocial functioning.

RESPIRATORY CARE

Respiratory care is both a caring art and a science. It is a blend of scientific knowledge, theory and clinical practice. The respiratory therapist, as a member of the allied health team, assumes the roles of provider in pulmonary care as well as assists the physician, nurse and other members of the allied health team to manage the patient's care in a variety of health care settings. The ultimate role of the respiratory therapist is to assist patients to achieve an optimal level of health within the environment of pulmonary care. The respiratory care process in conjunction with all allied health specialties is an integral component in the provision and management of patient care.

EDUCATION

Education is an interactive process which includes formal instruction and experiential learning. Education enhances learning in the cognitive, affective and psychomotor domains. Learning involves the translation of new knowledge, insights, skills and values into one's conduct. This active process takes place within the learner and is fostered when consideration is given to individual differences. Learning is facilitated through repetition and practical application, when new knowledge is relative to previous knowledge and when learning is goal directed. The need and ability to learn continues throughout life. The role of the faculty in respiratory care education is to facilitate the students' learning experiences through systematic guidance in their endeavors to acquire those knowledge, skills and judgments necessary for competence in the practice of respiratory therapist.

The Bachelor of Science Degree in Respiratory Care is based on knowledge from the humanities and the natural, social, behavioral and respiratory therapist sciences. The Bachelor of Science Degree in Respiratory Care prepares a graduate whose practice is characterized by critical thinking, clinical competence, collaboration, accountability, and encompasses practice in both acute and long-term care settings where policies and procedures are specific and guidance is available.

Approved: June 2007
Revised: January 2019
Reviewed: 7/21

ORGANIZING FRAMEWORK

The educational program for the Bachelor of Science Degree in Respiratory Care is designed to prepare the student to assume the roles of a respiratory therapist. The curriculum plan is based on knowledge from the humanities, and the natural, social, behavioral and nursing sciences, and provides a basis for clinical decisions and competence.

The major organizing concepts for the curriculum are person as patient, environment, health and respiratory therapist. The person is the primary focus of care and is studied systematically by assessing the patient as an individual and within the context of the family or group. Health is a dynamic state determined by responses to environmental factors throughout the life span. Respiratory Care is a caring art and a science which assists the patient to achieve an optimal level of health. These organizing concepts can be visualized as Horizontal Threads progressing from the initial respiratory care course to the final course. Horizontal Threads are themes that are repeated in various courses across the program.

The respiratory therapist assumes the roles of provider and manager of pulmonary care. As a provider of care, the respiratory therapist must assist in assessing the patients' basic needs in order to make effective clinical decisions to determine caring interventions and appropriate teaching/learning outcomes. As a manager of pulmonary care, the respiratory therapist must utilize resources in the environment to plan, organize and direct the patients' pulmonary care. Collaboration and communication with the physician, nurse and other members of the allied health team are in integral part of these roles. These respiratory therapist roles and behaviors form the Vertical Threads of the curriculum. Vertical Threads build in complexity from the start to finish in the respiratory care curricula.

The program of the respiratory care student proceeds from the simple to the more complex and/or specialized with beginning courses providing a foundation for future learning. In the basic curriculum, first semester courses begin with fundamentals of respiratory care and progress to health alterations of the patients' life span. The second year courses continue with health alterations in the critically ill patient. The curriculum plan is designed to integrate knowledge and skills for effective practice. Content is provided in each respiratory care course to facilitate the development of the skills for practice in a variety of health care settings. For all students, the final course in the program is designed as a capstone course to integrate knowledge and skills for effective practice.

Approved: June 2007
Reviewed: 7/21

ADMISSION POLICY
School of Respiratory Care

POLICY: All applicants must meet specified requirements to be considered for admission as a student to St. Mary's/Marshall University Co-Operative School of Respiratory Care. All applicants must be either a high school graduate or have a high school equivalent through GED testing. All applicants are strongly encouraged to take the ACT exam and submit results to the Admissions Office. Admission is competitive. The deadline for submitting applications is April 15 for fall admission. Please meet the deadline as established.

Applicants who received grades that prohibited progression in two or more respiratory courses will not be considered for admission or transfer/advanced placement.

ADMISSION PROCEDURE: Apply to Marshall University and St. Mary's School of Respiratory Care as described below.

Applicants must be admitted to Marshall University if applying to St. Mary's School of Respiratory Care. The following must be submitted to Marshall University (if not already a student at Marshall University) at the following address:

Office of Admissions
Marshall University
One John Marshall Drive
Huntington, WV 25755

1. Completed MU application
2. Appropriate MU application fee
3. Official transcripts from ALL colleges and universities attended

The following must be submitted / completed by the aforementioned deadlines to the Center for Education at the following address:

Admissions Office
St. Mary's Medical Center – Center for Education
2900 First Avenue
Huntington, WV 25702

1. Completed St. Mary's School of Respiratory Care application found on the web page at <http://www.st-marys.org>. Go to "Education & Training" tab. Click on "School of Respiratory Care". The application form is found on that page.
2. If application is mailed, application fee of \$30, which is non-refundable must be included (check or money order, no cash please).
3. If application is hand delivered, application fee of \$30, which is non-refundable, may be paid at St. Mary's Medical Center on the 3rd Floor Business Office in person or with a credit/debit card by phone at 304-526-8932, or at the Center for Education (cash or check only).
4. Official high school transcript or GED.
5. Official transcript from ALL colleges or universities attended, including Marshall University. ACT scores, if taken, (St. Mary's code is 4551). If the ACT has not been taken, contact Marshall University for dates of administration.
6. Signed the Code of Conduct Statement and the Drug & Alcohol Testing statement contained in the application.

H. GED APPLICANTS MUST HAVE THE FOLLOWING:

1. Met criteria for GED admission as stated in the Marshall University catalog.
2. Completed 12 college semester credit hours, which must be 100 level or above courses and be taken for a grade. The grades must be "C" or above.
3. An overall 2.00 GPA or better on any college courses completed.
4. An overall 2.00 GPA on all courses completed at Marshall University.
5. ACT score, if taken, sent to the Center for Education at the address above.
6. Requested that GED Certification be sent to both St. Mary's School of Respiratory Care and Marshall University.
7. Taken the TEAS exam.

I. APPLICANTS WITH AT LEAST 12 HOURS OF COLLEGE CREDIT MUST HAVE THE FOLLOWING:

1. A high school diploma or GED.
2. An overall 2.00 GPA or better on any college courses completed.
3. An overall 2.00 GPA on all courses completed at Marshall University.
4. ACT score, if taken, sent to the Center for Education at the address above.

If any applicant earns a D, F, or W in a required pre-entry course (BSC 227, CHM 205, ENG 101), the applicant may still be accepted into the program provisionally given the applicant completes all of these courses with a C or better prior to the first day of the first respiratory course.

If any applicant earns a D, F, or W in any other required support course(s), the applicant may be eligible for admission but must still retake and earn a C or greater in the required support course(s) per the normal course progression regarding co-requisite or prerequisite placement.

J. APPLICANTS REQUESTING TRANSFER/ADVANCED PLACEMENT FROM ANOTHER RESPIRATORY CARE PROGRAM MUST HAVE THE FOLLOWING:

1. An overall 2.00 GPA or better on all courses completed.
2. An overall 2.00 GPA on all courses completed at Marshall University.
3. A copy of all course syllabi for the completed nursing courses at the previous nursing school.
4. Paid a \$75 transfer consideration fee.

NOTE: Transfer/Advanced Placement applicants will be evaluated on an individual basis.

- K. **ADDITIONAL INFORMATION FOR ADMISSION TO ST. MARY’S SCHOOL OF RESPIRATORY CARE:**
A “C” grade or better is required for each of the courses transferring for credit toward the requirements for the respiratory care program. CLEP credit is also accepted for some courses (applicant is responsible for all fees associated with this). St. Mary’s School of Respiratory Care and Marshall University reserve the right to accept or reject individual non-major courses that are other than those listed in the respiratory curriculum. It is the applicant’s responsibility to assure all transcripts, fees, etc. are present at both St. Mary’s Center for Education and Marshall University. Applicants missing information will not be considered. Applicants will be notified concerning their acceptance.
- L. **ALL APPLICANTES TO THE SCHOOL OF RESPIRATORY CARE MUST BE ABLE TO MEET THE PHYSICAL, EMOTIONAL, AND FUNCTIONAL DEMANDS OF A RESPIRATORY THERAPIST POSITION. THE CRITERIA FOLLOW:** Applicants need to be aware that respiratory and respiratory education can be rigorous and physically, mentally, and emotionally demanding. A healthy status in all areas is essential for completion of the program. The public expects the professional respiratory therapist to have been prepared to provide safe and effective care. The Americans with Disability Act (ADA) provides the legal framework to guide these responsibilities. If you are a student who has a disability requiring special accommodations, notify ALL instructors of each course within the first two (2) weeks of class.

Aptitudes considered to be occupationally significant for satisfactory performance are as follows:

- Reading/verbal ability to read and understand meanings of words and ideas associated with them and to use them effectively. Must be able to present information and ideas clearly.
- Writing ability to write with proper grammar and spelling.
- Numerical ability to perform arithmetic operations quickly and accurately.
- Form perception ability to perceive pertinent details in objects, pictorial or graphic material; to make visual comparisons and discriminations and see slight differences in shapes and shadings of figures with widths and lengths of lines.
- Motor coordination to coordinate eyes and hands or fingers rapidly and accurately in making precise movements with speed, as well as the ability to make movement responses accurately and quickly.
- Finger dexterity to move fingers and manipulate small objects with the fingers rapidly and accurately.
- Manual dexterity to move hands easily and skillfully and work with hands in placing and turning motions.
- Eye-Hand-Foot coordination to move the hand and foot coordinately with each other in accordance with visual stimuli.
- Color discrimination to perceive or recognize similarities or differences in colors, or in shades or other values of the same color; to identify a particular color, or to recognize harmonious or contrasting color combinations or to match colors accurately. Deficiencies in this area will be evaluated on an individual basis.
- Temperaments considered significant for satisfactory performance are situations involving:
 - Communications with patients and the public, whether on the telephone, in writing or in person.
 - A variety of duties often characterized by frequent change.
 - Repetitive or short-cycle operations carried out according to set procedures or sequences.
 - The direction, control, and planning of an entire activity or the activity of others.
 - The necessity of dealing with people in actual job duties beyond giving and receiving instructions.
 - Influencing people in their opinions, attitudes, or judgments about ideas of things.
 - Performing adequately under stress when confronted with the critical or unexpected.
 - The evaluation of information against sensory or judgmental criteria.
 - The evaluation of information against measurable or verifiable criteria.
 - The interpretation of feelings, ideas, or facts in terms of personal view point.
 - The precise attainment of set limits, tolerances, or standards.
- Physical Demands include the following:
 - Reaching – extending the hands or arms in any direction.
 - Handling – seizing, holding, grasping, turning or otherwise working with the hand or hands.
 - Fingering – picking, pinching or otherwise working with the fingers primarily.
 - Feeling – perceiving such attributes of objects and materials as size, shape, temperature, or texture by means of receptors in the skin, particularly those of the fingertips.
 - Talking – expressing or exchanging ideas by means of the spoken word.
 - Hearing – perceiving the nature of sounds by the ear; must be able to hear assessment sounds with or without assistive devices.
 - Acuity – near-clarity of vision at 20 inches or less with or without assistive devices.
 - Depth perception – 3 dimensional vision to judge distance and space relationships so as to see objects where and as they actually are.
 - Field of vision – the area that can be seen up and down or to the right or left while the eyes are fixed at a given point.
 - Accommodation – adjustment of the lens of the eye to bring an object into sharp focus.
 - Color vision – the ability to identify and distinguish colors. Deficiencies in this area will be evaluated on an individual basis.
 - Lifting from the waist to overhead – frequently 11-24 pounds; occasionally 20-50 pounds.
 - Lifting from floor to waist – frequently 35-50 pounds.
 - Carrying – frequently 35-50 pounds.
 - Pushing – occasionally up to and over 100 pounds.
 - Bending/Stooping – frequently.
 - Balancing – continuously.
 - Pushing/Pulling – frequently.
 - Walking and Standing – frequently.
 - Climbing – occasionally.

NOTE: This description reflects the general details considered necessary to describe the principle functions of the physical demands for this program.

Formulated: Fall 2005

Revised: Spring 2005, 7/10, 8/12, 12/14; 7/15

Reviewed: January 2010; 7/17, 7/18, 6/19, 7/21

CURRICULUM OBJECTIVES/STUDENT LEARNING OUTCOMES

Upon completion of the program, the graduate will:

- I. ASSESSMENT
 - a. Complete comprehensive assessments.
- II. CLINICAL DECISION MAKING
 - a) Utilize assessment data and evidence based information to make decisions that ensure safe, effective, individualized care.
 - b) Evaluate effectiveness of care and modify patient care as needed.
- III. CARING INTERVENTIONS
 - a) Provide care that assists the patient in meeting needs.
 - b) Implement caring behaviors that are nurturing, protective, compassionate and person-centered.
- IV. TEACHING/LEARNING
 - a) Implement an individualized teaching plan based on assessed needs of the patient and significant others.
 - b) Provide assistive personnel with relevant instruction to support achievement of patient outcomes.
- V. COLLABORATION
 - a) Collaborate with the patient, significant others, and members of the health care team to plan, implement, and evaluate patient care.
 - b) Function as an advocate, liaison, coordinator and colleague in working with the health care team toward the achievement of positive patient outcomes.
- VI. MANAGING CARE
 - a) Assist the patient to achieve positive outcomes by effectively utilizing human, physical, financial, and technological resources.
 - b) Utilize the management process (plan, organize, direct and control) to assist patients to interact effectively with the health care system.
- VII. COMMUNICATION
 - a) Communicate effectively with members of the health care team utilizing appropriate methods and skills.
 - b) Utilize therapeutic communication skills when interacting with patients and significant others.
- VIII. PROFESSIONAL BEHAVIORS
 - a) Practice respiratory care within the ethical, legal and regulatory framework.

Approved: June 2007

Reviewed: 7/21

Title of Position: Registered Respiratory Therapist

Aptitudes:

These aptitudes are considered to be occupationally significant for the specific job description: i.e. essential for successful job performance.

Reading/Verbal: Ability to read and understand meanings or words and ideas associated with them, and to use them effectively. To comprehend language, understand relationships between words, and to understand meanings of whole sentences and paragraphs. The ability present information and ideas clearly.

Writing: Ability to write with proper grammar and spelling.

Numerical: Ability to perform arithmetic operations quickly and accurately.

Form perception: Ability to perceive pertinent detail in objects or in pictorial or graphic material: to make visual comparisons and discriminations and see slight differences in shapes and shadings of figures and widths and lengths of lines.

Clerical perception: Ability to perceive pertinent detail in verbal or tabular material. To observe differences in copy, proof read words and numbers, and avoid perceptual errors in arithmetic computation.

Motor Coordination: Ability to coordinate eyes and hands or fingers rapidly and accurately in making precise movements with speed. The ability to make a movement response accurately and quickly.

Finger Dexterity: The ability to move the fingers and manipulated small objects with the fingers rapidly and accurately.

Manual Dexterity: Ability to move the hands easily and skillfully. To work with the hands in placing and turning motions.

Temperaments:

These temperaments are considered to be occupationally significant for the specific job description: i.e. essential for successful job performance,

Situations involving communication with patients and the public, whether on the telephone, in writing or in person.

Situations involving a variety of duties often characterized by frequent change.

Situations involving the necessity of dealing with people in actual job duties beyond giving and receiving instructions.

Situations involving influencing people in their opinion, attitudes, or judgments about ideas or things.

Situations involving performing adequately under stress when confronted with the critical or unexpected.

Situations involving the evaluation of information against sensory or judgmental criteria.

Situations involving the evaluation of information against measurable or verifiable criteria.

Situations involving the interpretation of feelings, ideas, or facts in terms of personal viewpoint.

Situations involving the precise attainment of set limits, tolerance or standards.

Physical Demands:

Physical demands are those physical activities required of a worker in a job. The worker must possess physical capabilities at least in an amount equal to the physical demands made by the job. The minimum physical qualifications are listed below.

Reaching: Extending the hands and arms in any direction.

Handling: Seizing, holding, grasping, turning, or otherwise working with the hand or hands.

Fingering: Picking, pinching, or otherwise working with the fingers primarily.

Feeling: Perceiving such attributes of objects and materials as size, shape, temperature, or texture, by means of receptors in the skin particularly those of the finger tips.

Talking: Expressing or exchanging ideas by means of the spoken word.

Hearing: Perceiving the nature of sounds by the ear.

Acuity, far: Clarity of vision at 20 feet or more.

Acuity, near: Clarity of vision at 20 inches or less.

Depth perception: 3-dimensional vision. The ability to judge distance and space relationships so as to see objects where and as they actually are.

Accommodation: Adjustment of the lens of the eye to bring an object into sharp focus. This item is especially important when doing near point work at varying distances from the eye.

For the following: Never=0% Rarely=1-10% Occasionally=11-33% Frequently=34-66%
Continuously=67-100%

Lifting: rarely up to 100 lbs.

Lifting: Rarely up to 100 lbs.

Carrying: Rarely up to 100 lbs.

Pushing: Rarely up to 100 lbs.

Bending/Stooping: Rarely

Crawling: Never

Reaching Above shoulder level: Rarely

Pushing/Pulling: Rarely

Sitting: Occasionally

Walking: Occasionally

Crouching: Rarely
Balancing: Never
Kneeling: Rarely
Standing: Occasionally
Climbing: Rarely

Environmental surroundings:
The environmental surroundings of a worker in this job description
100% of time spent INSIDE
0% of time spent OUTSIDE

TITLE: PROGRAM REQUIREMENTS: SCHOOL OF RESPIRATORY CARE

POLICY: Graduation from the program requires successful completion, with a grade of “C” or higher, of one hundred twenty-one (121) credit hours. Seventy (70) credit hours are respiratory courses, and fifty one (51) credit hours are support courses.

PURPOSE: To meet the requirements for graduation.

PROVISIONS OR DIRECTIONS FOR IMPLEMENTATION:

See next page.

Marshall University/St. Mary's

Co-Operative School of Respiratory Care

Student Curriculum Guide

Bachelor in Science in Respiratory Care

Freshman Year

| Fall Semester Course | Hrs | Grade | Semester Taken | Spring Semester Course | Hrs | Grade | Semester Taken |
|----------------------------------|-----------|-------|----------------|---------------------------------------|-----------|-------|----------------|
| BSC 227 – Human Anatomy | 4 | | | BSC 228 – Human Physiology | 4 | | |
| CHM 205 – General Chemistry | 3 | | | SOC 200 – Intro to Sociology | 3 | | |
| MTH 121 – Concepts & Application | 3 | | | HS 200 – Medical Terminology | 3 | | |
| ENG 101 – English Composition | 3 | | | Humanities Elective | 3 | | |
| FYS 100 – First Year Seminar | 3 | | | Fine Arts – ART 112, MUS 142, THE 112 | 3 | | |
| TOTAL | 16 | | | TOTAL | 16 | | |

Sophomore Year

| Fall Semester Course | Hrs | Grade | Semester Taken | Spring Semester Course | Hrs | Grade | Semester Taken |
|--------------------------------------|-----------|-------|----------------|-------------------------------------|-----------|-------|----------------|
| BSC 250 – Micro/Human Disease | 4 | | | RSP 201 – Pulmonary Pathophysiology | 3 | | |
| RSP 100 – Respiratory Pharmacology | 3 | | | RSP 203 – Respiratory Internship 1 | 4 | | |
| RSP 101 – Introduction to Resp. Care | 3 | | | RSP 212 – Acute/Chronic Pulm. Mgt. | 3 | | |
| RSP 102 – Intro to Resp. Care Proc. | 3 | | | CMM 103 – Fundamentals of Speech | 3 | | |
| RSP 102L - Intro to Resp. Care. Lab | 1 | | | ENG 201 – English Composition | 3 | | |
| TOTAL | 14 | | | TOTAL | 16 | | |

Junior Year

| Fall Semester Course | Hrs | Grade | Semester Taken | Spring Semester Course | Hrs | Grade | Semester Taken |
|---------------------------------------|-----------|-------|----------------|--------------------------------------|-----------|-------|----------------|
| RSP 202 – Intro to Mechanical Vents | 3 | | | RSP 206 – Intro to Neo/Ped Resp Care | 3 | | |
| RSP 207 – Intro to Critical Care Mgt. | 3 | | | RSP 210 – Respiratory Internship III | 4 | | |
| RSP 209 – Respiratory Internship II | 4 | | | RSP 303 – Respiratory Education | 3 | | |
| STA 225 - Statistics | 3 | | | RSP 308 – Respiratory Mgt. & QI. | 3 | | |
| | | | | RSP 314 – Adv. Mechanical Vent | 3 | | |
| TOTAL | 13 | | | TOTAL | 16 | | |

Senior Year

| Fall Semester Course | Hrs | Grade | Semester Taken | Spring Semester Course | Hrs | Grade | Semester Taken |
|---------------------------------------|-----------|-------|----------------|------------------------------------|-----------|-------|----------------|
| RSP 302 – Respiratory Internship IV | 4 | | | RSP 407 - Clinical Decision Making | 3 | | |
| RSP 304 – Adv. Neo/Peds Critical Care | 3 | | | RSP 403 – Resp. Care Research | 3 | | |
| RSP 307 – Adv. Critical Care | 4 | | | RSP 404 – Adv. Practicum | 4 | | |
| RSP 401 – Intro to Sleep Disorders | 4 | | | RSP 420 – Capstone in Resp. Care | 5 | | |
| TOTAL | 15 | | | TOTAL | 15 | | |

Reviewed: 6/19; 6/20

Revised: 7/21

COURSE DESCRIPTIONS: SCHOOL OF RESPIRATORY CARE

RRT Respiratory Care Course Listings (RSP)

RSP 100 - Respiratory Pharmacology - 3 hrs.

Introduces the student to basic pharmacology of medicines used in respiratory care and physiological implications on the human body.

Pre requisite – Acceptance into the Respiratory Care Program, BSC 227, BSC 228, BSC 250 or permission

Co requisite - RSP 101, RSP 102, RSP 102L

RSP 101 - Introduction to Respiratory Care - 2 hrs.

Introduces the student to the history of respiratory care and professional organizations. Emphasis is on the role of the respiratory therapist as a member of the health care team.

Pre requisite – Acceptance into the Respiratory Care Program, BSC 227, BSC 228, BSC 250 or permission

Co requisite – RSP 102, RSP 102L

RSP 102 - Introduction to Respiratory Care Procedures - 3 hrs.

Administration of medical gases, humidity and aerosol therapy with emphasis on the handling of medical gases and safety in administration. Techniques of therapeutic procedures used in respiratory care are included.

Pre requisite - Acceptance in the respiratory care program, BSC 227, BSC 228, BSC 250 or permission

Co requisite – RSP 100, RSP 101

RSP 102L - Respiratory Care Procedures Lab - 1 hr.

Administration of medical gases, humidity and aerosol therapy with emphasis on the handling of medical gases and safety in administration. Techniques of therapeutic procedures used in respiratory care are included.

Pre – requisite - Acceptance in the respiratory care program, BSC 227, BSC 228, BSC 250 or permission

Co requisite – RSP 102, RSP 100, RSP 101

RSP 201 - Pulmonary Pathophysiology - 3 hrs.

Emphasis is placed on the etiology, signs and symptoms, pathology, clinical manifestations, sequellae, and treatment. The respiratory therapist's role in the recognition and treatment of pulmonary diseases is highlighted.

Pre requisite - Sophomore Level, BSC 227, BSC 228, BSC 250, RSP 100, RSP 101, RSP 102, RSP 102L
or permission

Co requisite - RSP 203, RSP 212

RSP 202 - Mechanical Ventilation Technology and Management - 3 hrs.

An introduction to the fundamentals of mechanical ventilation techniques and terminology. Monitoring and the ability to solve clinical problems relating to mechanical ventilation are emphasized. Lab included.

Pre requisite - Sophomore Level , BSC 227, BSC 228, BSC 250, RSP 100, RSP 101, RSP 102, RSP 102L, RSP 201, RSP 203, RSP 212 or permission

Co requisite - RSP 207, RSP 209

RSP 203 - Respiratory Internship 1 - 4 hrs.

Emphasis is on information gathering from the patient record, physical evaluation of the patient and basic respiratory interventions.

Pre requisite - Sophomore Level, BSC 227, BSC 228, BSC 250, RSP 100, RSP 101, RSP 102, RSP 102L, Or permission

Co requisite - RSP 201, RSP 212

RSP 206 - Neonatal/Pediatric Respiratory Care - 3 hrs.

Provide knowledge of neonatal/pediatric patients; fetal cardiopulmonary development and changes at birth, care methods used and evaluation of neonatal and pediatric patients are covered.

Pre requisite – Junior level, BSC 227, BSC, 228, BSC 250, RSP 100, RSP 101, RSP 102, RSP 102L, RSP 201, RSP 202, RSP 203, RSP 207, RSP 212, RSP 209 or permission

Co requisite - RSP 210, RSP 303, RSP 308, RSP 314

RSP 207 - Introduction to Critical Care Management - 3 hrs.

Designed to provide the student with knowledge of airway management, Trans tracheal oxygen therapy and aspiration, bronchoscopy, thoracentesis, pleural chest tubes, arterial lines, ABG interpretation and analysis, transports, and electrocardiogram interpretation

Pre requisite – Junior level, BSC 227, BSC, 228, BSC 250, RSP 100, RSP 101, RSP 102, RSP 102L, RSP 201, RSP 203, RSP 212

Co requisite – RSP 202, RSP 209

RSP 209 - Respiratory Internship 2 - 3 hrs.

Emphasis is on supervised practice of humidity and aerosol therapy, aerosol drug therapy, lung inflation therapy and techniques used in electrocardiography.

Pre requisite – Junior level, BSC 227, BSC, 228, BSC 250, RSP 100, RSP 101, RSP 102, RSP 102L, RSP 201, RSP 202, RSP 203

Co requisite - RSP 202, RSP 207

RSP 210 - Respiratory Internship III - 3 hrs.

Emphasis in on supervised practice of arterial blood gas sampling and analysis, arterial line management, chest tube management, ECGs observation of hemodynamic measurement and monitoring, IABP management.

Pre requisite - Junior level, BSC 227, BSC, 228, BSC 250, RSP 100, RSP 101, RSP 102, RSP 102L, RSP 201, RSP 202, RSP 203, RSP 209

Co requisite - RSP 309, RSP 303

RSP 212 - Acute/Chronic Pulmonary Management - 3 hrs.

Emphasis place on pulmonary function testing/interpretation and care of a patient with long-term pulmonary disability requiring home care and rehabilitation.

Pre- Requisite - Junior level, BSC 227, BSC, 228, BSC 250, RSP 100, RSP 101, RSP 102, RSP 102L, RSP 201, RSP 202, RSP 203 or permission

Co requisite - RSP 201, RSP 203

RSP 302 - Respiratory Internship IV - 2 hrs.

Emphasis is on cardiopulmonary assessment and treatment of trauma, post-surgical, cardiac, renal, neonatal and pediatric patients with refinement of monitoring procedures and interpretation of data.

Pre requisite - Senior level, BSC 227, BSC, 228, BSC 250, RSP 100, RSP 101, RSP 102, RSP 102L, RSP 201, RSP 202, RSP 203, RSP 206, RSP 207, RSP 209, RSP 210, RSP 212, RSP303, RSP 308, RSP 314, or permission

Co requisite – RSP, 304, RSP 307, RSP 401

RSP 303 - Clinical Respiratory Education - 3 hrs.

Designed as an introduction to clinical teaching in a respiratory care program. Emphasis is on instructional and evaluation strategies and development of performance objectives

Pre requisite – Junior level, BSC 227, BSC, 228, BSC 250, RSP 100, RSP 101, RSP 102, RSP 102L, RSP 201, RSP 202, RSP 203, RSP 207, RSP 209, RSP 212 or permission

Co requisite – RSP 206, RSP 210, RSP 303, RSP 308

RSP 304 - Advanced Neonatal and Pediatrics - 3 hrs.

Advanced study of neonatal/pediatric pathophysiology including parenchymal disease, obstructive airway disease, lesions of the lungs and airways, congenital abnormalities, respiratory distress syndrome, apnea disorders, neurological disorders and trauma.

Pre requisite - Senior level, BSC 227, BSC, 228, BSC 250, RSP 100, RSP 101, RSP 102, RSP 102L, RSP 201, RSP 202, RSP 203, - RSP 206, RSP 207, RSP 209, RSP 210, RSP 212, RSP 303, RSP 308, RSP 314, or permission

Co requisite – RSP 302, RSP 307, RSP 401

RSP 307 - Advanced Techniques in Adult Critical Care - 4 hrs.

Emphasis is on current respiratory care procedures for the critically ill adult patient with exploration into newer techniques.

Pre requisite - Senior level, BSC 227, BSC, 228, BSC 250, RSP 100, RSP 101, RSP 102, RSP 102L, RSP 201, RSP 202, RSP 203, - RSP 206, RSP 207, RSP 208, RSP 209, RSP 210, RSP 211, RSP 212, RSP 303, RSP 308

Co requisite - RSP 302, RSP 304, RSP 401

RSP 308 - Respiratory Management and Quality Improvement - 3 hrs.

This course introduces the student to basic management principles of a respiratory department. Discussion includes scope of management, quality issues, budgeting issues, and evaluation and application of management concepts.

Pre requisite - Junior level, BSC 227, BSC, 228, BSC 250, RSP 100, RSP 101, RSP 102, RSP 102L, RSP 201, RSP 202, RSP 203, RSP 207, RSP 209, RSP 212 or permission

Co requisite – RSP 206, RSP 210, RSP 303, RSP 314

RSP 314 – Advanced Mechanical Ventilation – 3 hrs.

Advanced theory and application of mechanical ventilation. Study of various mechanical ventilators and artificial airways, with major emphasis on all aspects of the management of the patient-ventilator system.

Pre-req: Junior level, BSC 227, BSC, 228, BSC 250, RSP 100, RSP 101, RSP 102, RSP 102L, RSP 201, RSP 202, RSP 203, RSP 207, RSP 209, RSP 212 or permission

Co-req: RSP 206, RSP 210, RSPO 303, RSP 308

RSP 401 - Introduction to Sleep Disorders - 4 hrs.

Designed to teach how a Polysomnogram is performed, the major categories of sleep disorders, the presenting symptoms of sleep apnea, narcolepsy, psychophysiological insomnia and sleep disturbance due to depression.

Pre requisite – Senior level, BSC 227, BSC, 228, BSC 250, RSP 100, RSP 101, RSP 102, RSP 102L, RSP 201, RSP 202, RSP 203, RSP 206, RSP 207, RSP 209, RSP 210, RSP 212, RSP 303, RSP 308, RSP 314, or permission

Co requisite – RSP 302, RSP 304, RSP 307

RSP 402 - Issues in Respiratory Management - 3 hrs.

Designed to examine respiratory care in rural America. This course will address the key issues confronting rural respiratory healthcare today, examine the causes and develop solutions to the issues.

Pre requisite - Acceptance into the Degree Advancement Program

Co requisite - Acceptance into the Degree Advancement Program

RSP 403 - Respiratory Care Research - 3 hrs.

Designed to provide the student knowledge about survey of research problems, methods, and designs utilized in respiratory care, with emphasis on data presentation and analysis.

Pre requisite - Senior level, Statistic's, BSC 227, BSC, 228, BSC 250, RSP 100, RSP 101, RSP 102, RSP 102L, RSP 201,
RSP 202, RSP 203, - RSP 206, RSP 207, RSP 209, RSP 210, RSP 212,
RSP 302,
RSP 303, RSP 304, RSP 307, RSP 308, RSP 314

Co requisite – RSP 407, RSP 403, RSP 420

RSP 404 - Advanced Practicum - 4 hrs.

This is a 4 hour course where the emphasis is placed on advanced respiratory techniques and management of clients across the life span.

Pre-Req - BSC 227, BSC, 228, BSC 250, RSP 100, RSP 101, RSP 102, RSP 102L, RSP 201, RSP 202, RSP 203, RSP 206, RSP 207, RSP 209, RSP 210, RSP 212, RSP 302, RSP 303, RSP 304, RSP 307, RSP 308, RSP 314,
RSP 401

Co-Req - RSP 403, RSP 407, RSP 420

RSP 407 – Clinical Decision Making – 3 hrs.

The course focuses on gathering appropriate clinical information to make evidence-based decisions in the treatment for respiratory care diseases. (PR/CR: Senior Status).

Pre-req: Senior level, BSC 227, BSC, 228, BSC 250, RSP 100, RSP 101, RSP 102, RSP 102L, RSP 201, RSP 202, RSP 203,
RSP 206, RSP 207, RSP 209, RSP 210, RSP 212, RSP 302, RSP 303, RSP 304, RSP 307, RSP 308,
RSP 314, RSP 401

Co-req: RSP 403, RSP 404, RSP 420

RSP 420 - Capstone in Respiratory Care - 5 hrs.

Role synthesis practicum incorporating provider of care, coordinator of care, member of profession and leadership roles.

Pre-Req - Senior level, BSC 227, BSC, 228, BSC 250, RSP 100, RSP 101, RSP 102, RSP 102L, RSP 201, RSP 202,
RSP 203, RSP 206, RSP 207, RSP 209, RSP 210, RSP 212, RSP 302, RSP 303, RSP 304, RSP 307,
RSP 308, RSP 314, RSP 401

Co requisite – RSP 403, RSP 404, RSP 407

RSP 485 Special Topics (1-4; 1-4; 1-4) 4 hrs.

Study of topics not available in other courses.

RSP 486 Independent Study. 1-4 hrs.

Course will consist of directed and independent reading, directed and independent research, problem reports, or tutorials. Will allow student to complete individualized learning in respiratory care. (PR: Permission)

Revised: 7/2021

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CFE Administrative Secretary
CFE Admissions Coordinator

Paula Cremeans, 304/526-1426
Melba Curry, 304/526-1423

DISCLOSURE FORM

PROJECTED EXPENSES

The following projected expenses apply to School Of Respiratory Care courses only at the CFE.

Any course not designated as RSP, the tuition would be payable to the institution where the course is taken. All prices listed are subject to change without notice.

School of Respiratory Care

| Fall Semester Sophomore Year | Projected Cost | Spring Semester Sophomore Year | Projected Cost |
|---|---------------------------|---|---------------------------|
| Tuition – 10 Credit hours | \$3,400.00 | Tuition – 10 Credit hours | \$3,400.00 |
| Projected Books & Supplies | \$1,300.00 | Projected Books & Supplies | \$500.00 |
| Lab Kit & Lab Fee | \$300.00 | Lab Fee | \$100.00 |
| Uniform | \$300.00 | | |
| Background Check Drug Screen | \$100.00 | | |
| Total | \$4,100.00 | Total | \$4,000.00 |

| Fall Semester Junior Year | Projected Cost | Spring Semester Junior Year | Projected Cost |
|--------------------------------------|---------------------------|--|---------------------------|
| Tuition – 10 Credit hours | \$3,400.00 | Tuition – 16 Credit hours | \$4,080.00 |
| Projected Books/Supplies | \$500.00 | Projected Books/Supplies | \$500.00 |
| Lab Fee | \$100.00 | Lab Fee | \$100.00 |
| Background Check Drug Screen | \$100.00 | | |
| Total | \$4,100.00 | Total | \$4,680.00 |

| Fall Semester Senior Year | Projected Cost | Spring Semester Senior Year | Projected Cost |
|--------------------------------------|---------------------------|--|---------------------------|
| Tuition – 15 Credit hours | \$4,080.00 | Tuition – 15 Credit hours | \$4,080.00 |
| Projected Books/Supplies | \$1,000.00 | Projected Books/Supplies | \$1,000.00 |
| Lab Fee | \$100.00 | Lab Fee | \$100.00 |
| Background Check Drug Screen | \$100.00 | Graduation Fee | \$100.00 |
| Total | \$5,280.00 | Total | \$5,280.00 |

The St. Mary's/Marshall University Co-Operative School of Respiratory Care is accredited by the Commission on Accreditation for Respiratory Care (www.coarc.com)

Program outcomes may be obtained by going to www.coarc.com and clicking on the link program outcomes

Commission on Accreditation for Respiratory Care
264 Precision Road
Telford, TN 37690
(817) 283-2835

Despite any policy to the contrary, for any students using U.S. Department of Veterans Affairs (VA) Post 9/11 G.I. Bill® (Ch. 33) or Vocational Rehabilitation and Employment (Ch. 31) benefits, while payment to the institution is pending from the VA, we will not:

- Prevent their enrollment;
- Assess a late penalty fee to;
- Require they secure alternative or additional funding;
- Deny their access to any resources (access to classes, libraries, or other institutional facilities) available to other students who have satisfied their tuition and fee bills to the institution.

However, to qualify for this provision, such students may be required to:

- Produce the VA's Certificate of Eligibility by the first day of class;
- Provide written request to be certified;
- Provide additional information needed to properly certify the enrollment as described in other institutional policies (see our VA School Certifying Official for all requirements).

SCHOOL OF MEDICAL IMAGING

PROGRAM OVERVIEW

PROGRAM OVERVIEW

St. Mary's School of Medical Imaging (SOMI) was started in 1964. It is a hospital-based educational program consisting of 36 months of competency-based clinical and didactic instruction to prepare graduates for entry level employment as a radiographer or sonographer, and to sit for the American Registry of Radiologic Technologist (ARRT)/American Registry of Diagnostic Sonography (ARDMS) certification examination upon graduation. The School of Medical Imaging is a cooperative baccalaureate program with Marshall University.

Radiography is a multi-dimensional career that includes digital radiography, trauma radiography and fluoroscopy. Radiographers have many advanced imaging opportunities available including computed tomography, magnetic resonance imaging and cardiovascular intervention radiography. Sonography is also a multi-dimensional career that includes concentrations in General Sonography, Obstetrical/Gynecologic, Cardiac Echo (fetal and adult), and Vascular sonography.

The School of Medical Imaging (SOMI) is a thirty-six month program designed to prepare the student for entry and professional level employment as a radiographer/sonographer. The SOMI is accredited by the Joint Review Committee on Education in Radiography (JRCERT), and recognized by the West Virginia Board of Examiners of Radiologic Technologists. Radiography Graduates of the program are eligible to take the entry-level American Registry of Radiologic Technologists (ARRT) while Sonography Graduates will be eligible to take examinations through the American Registry of Diagnostic Medical Sonography (ARDMS) certification examinations. Radiography Students will also be didactically prepared for an advanced practice modality in imaging. Radiography Graduates will have three years after completing the program to sit for the Primary certification exam; however, post-primary certification exams (advanced imaging) clinical competency must be dated within 24 months of submitting an application. Since senior students will be documenting post-primary competencies, students who enter the program must complete all didactic and clinical requirements including general education requirements within four years (forty-eight months) of entering the SOMI portion of the program (sophomore MU year). Sonography Graduates require a CV for their specialty examinations. These will be provided upon completion of the program, however, the student must realize the CV forms are good for one year after graduation and if specialty exams are not taken within the first year of graduation they will be required to contact the ARDMS to meet the additional requirements.

The program is composed of two major components; a clinical component and an academic (classroom) component. Each component is designed to complement the other so that procedures taught in the classroom are performed under supervision in the clinical setting at that time. Each component is discussed separately in their respective sections.

SCHOOL OF MEDICAL IMAGING MISSION STATEMENT

The mission of St. Mary's School of Medical Imaging is to prepare qualified graduates in the area of imaging sciences through current educational methodologies. The faculty, in collaboration with internal and external groups, will foster the development of a learning environment that is responsive to local and national trends in health care to produce multi-competent medical imaging professionals.

Revised 5/13, Reviewed annually.

PROGRAM PHILOSOPHY

The faculty of St. Mary's School of Medical Imaging believes that medical imaging is a unique combination of art and science based on the desire to meet specific health care needs of the community. The focus of medical imaging is to provide optimal results with the highest quality of patient care. The achievement of this goal requires the application of the physical and biological sciences coupled with effective communication and interaction skills.

We believe that learning is an end product of education. We believe that motivation, readiness, interest and perseverance are essential to effective learning. We also believe that learning occurs best in an atmosphere built on a cooperative teacher-student relationship.

We believe that medical imaging education is a planned program for the guidance of students in acquiring the knowledge and skills that will prepare them for entry level employment in the various fields of medical imaging. We believe that learning does not stop at graduation and the continuing education is an integral part of their professional development.

With this in mind, it is the responsibility of the faculty to select, plan, organize, implement and evaluate educational experiences for the students in a progressive manner that gives the students direction and allows for individual differences. In doing so, it is the responsibility of the student to cooperate with faculty in all programmatic policies and procedures and to fully cooperate in group activities. Only then can this educational program foster a cooperative environment that is conducive to student learning.
Revised 5/13, 7/14, Reviewed annually

SCHOOL OF MEDICAL IMAGING GOAL

To assure that St. Mary's Medical Center School of Medical Imaging is effective in providing the highest quality educational opportunities to students as set forth in the Standards of an Educational Program in Radiography by the Joint Review Committee on Education in Radiography, the SOMI has developed an Assessment Plan based on the following goals. The Assessment Plan and goals are evaluated on an annual basis and are published in an annual report to the Advisory Committee members. Applicants/Students interested in reviewing the program's Assessment Plan or Annual Report should contact the Chair.

Radiography Goals and Student Learning Outcomes

I. The program will graduate clinically competent imaging professionals to meet community healthcare needs

- a. Student will demonstrate technical proficiency
- b. Students will practice ALARA principles

II. Students/graduates will be effective communicators

- a. Students will demonstrate communication fluency by engaging in diverse perspectives
- b. Students will demonstrate written skills

III. Students/graduate will model professionalism

- a. Students will demonstrate a set of cognitive, affective and behavioral skills and characteristics that support effective and appropriate interaction in a variety of cultural contexts
- b. Students will demonstrate professional behavior in the clinical arena

IV. Students/graduates are effective at critical thinking.

- a. Students will demonstrate analytical inquiry through practical approaches to problem solving
- b. Students will demonstrate critical thinking skills in the use of information resources

Revised: 3/2004; 6/2005; 8/2007; 3/2010; 8/2012, 5/13, 1/14, 5/16, 7/17, 6/19, 7/21
Reviewed: 8/15, 5/16, 7/2017, 6/18, 6/20

APPLICATION PROCESS

Thank you for your interest in St. Mary's Medical Center/MU School of Medical Imaging. Radiography is a very exciting and dynamic field that offers a wonderful blend of technology and patient interaction. The field also offers many career advancement opportunities in the areas of CT, MRI, mammography, ultrasound, nuclear medicine, radiation oncology and cardiovascular imaging.

The SMMC SOMI radiography program is a four year program and is accredited by the Joint Review Committee on Education in Radiologic Technology. Please be advised that the radiography program is selective in its admission practices and can only offer a limited number of spaces to applicants each year. Acceptance into the program is contingent upon a negative drug screening and a clear background check before the start of the first semester. The program reserves the right to request random drug screenings after admittance. Note: students interested in the sonography track should also look at the sonography admission process link located on the program web page <https://www.st-marys.org/careers-and-education/school-of-medical-imaging/sonography/>

There is a \$30 non-refundable application fee. We accept applications from January 1 to May 5 of each year. The application process must be completed by May 5th of the year you are applying for admission. Again, thank you for your interest in the program.

Download Application <https://www.st-marys.org/assets/Documents/SMMC/School-of-Medical-Imaging/CFE-Application-Form-SOMI.pdf>

Technical Standards form <https://www.st-marys.org/assets/Documents/SMMC/School-of-Medical-Imaging/TechStandardsSOR.pdf>

Students must apply to and be accepted into the Marshall University College of Health Professions. Acceptance into the COHP does not guarantee acceptance into the SOMI. *Separate* application is made to SMMC SOMI between January 1 and May 5th of each year.

Applications along with a Technical Standards Declaration (see Technical Standards below) may be downloaded and submitted electronically to Rita.Fisher@st-marys.org. The application fee can be paid by credit card by contacting the St. Mary's Accounting Department at 304.526.8932. Alternatively, applications and the fee in the form of check or money order can be mailed to:

St Mary's Medical Center School of Medical Imaging
2900 First Avenue
Huntington, WV 25701

In addition to the application and technical standards form, we require a copy of high school transcripts and all college transcripts. Transcripts may be delivered electronically to Rita.Fisher@st-marys.org or mailed. We recommend requesting electronic delivery.

In addition to transcripts we require verification of ACT scores. A minimum ACT score of 19 on composite, math and science will improve an applicant's chances of being accepted into the program.

Minimum requirements for consideration are:

1. High school diploma or successful completion of the GED.
2. A minimum of 18 college credits (100 level courses or higher) from a regionally accredited institution must be completed or in progress prior to applying to the program.

3. A minimum overall GPA of 2.50 must be obtained on all college level courses. A minimum GPA of 2.50 must be obtained on all math and science courses.
4. A letter grade of "C" or better must be obtained in each of the following Marshall University courses designated with an asterisk * (or equivalent courses from other institutions).
 - a. MAT 121 or higher College Algebra*
 - b. PHY 101 Introductory Physics (or higher)*
 - c. PHY 101L Physics Lab*
 - d. BSC 227 Human Anatomy*
 - e. BSC 228 Human Physiology*
 - f. CLS 105 Medical Terminology (or other medical terminology course)
 - g. Communications (the communication skills requisite may be met by a variety of courses including English, speech, or composition)

**** Any substitution or variation of pre-requisite course work requires special permission of Program Director ****

5. Professional observation within a hospital radiography department is recommended, but not required. Please contact 304.526.8328 if you wish to do observation at SMMC. Observation depends upon hospital visitation policy which is subject to change pending Covid-19 parameters. It is highly recommended that interested applicants review information on the American Society of Radiologic Technologists web page about the field of medical imaging.
www.asrt.org

ACCEPTANCE PROCESS

Applicants are scored and ranked based on overall college GPA, course grades in prerequisite courses and selected additional science course work (e.g., cell biology, general or organic chemistry) and high school GPA or GED scores. Applicants who submit ACT scores will receive extra points for scores of 19 or greater on the composite, math, science and verbal components. Students who took the SAT rather than the ACT will have the math and over all scores converted to ACT values.

Positions are offered to the top twenty-four applicants based on total points; however, the SOMI reserves the right to conduct personal interviews to assist in candidate selection. Remaining applicants comprise the alternate list for that year's admission. Alternates may be selected up to the beginning of the fall term.

Students accepted into the program that wish to pursue the sonography track, may make separate application to the sonography track at the conclusion of the sophomore year. The number of students accepted into sonography is limited. If the number of interested students exceeds the available slots, admission will be based first on MI coursework GPA. If there are ties then course grades in prerequisite sciences and MU GPA will be the determining factors. The deadline for application is April 1. *See the Sonography Link for additional information.*

Revised 3/04; 6/05; 8/07; 3/10, 9/12, 5/13, 6/15, 8/16, 7/21

DISCLOSURE FORM – SOMI

| | Class of 2016 | Class of 2017 | Class of 2018 | Class of 2019 | Class of 2020 |
|-----------------------------------|---------------|---------------|---------------|---------------|---------------|
| PERCENT PASSING BOARDS - SMMC | 100 | 100 | 70.6 | 100 | 93 |
| PERCENT PASSING BOARDS - NATIONAL | 87.2 | 89.3 | 89.4 | 89 | 88 |
| PROGRAM COMPLETION RATE | 94% | 92% | 94% | 93% | 87% |
| PROGRAM SATISFACTION RATE | 98% | 99% | 90% | 100% | 100% |
| PROGRAM JOB PLACEMENT | 90% | 100% | 95% | 100% | 100% |

Revised: 7/21

FINANCIAL INFORMATION: FEES AND OTHER EXPENSES

Unless otherwise noted, all fees are due at the beginning of each academic year. There is no difference in tuition for West Virginia residents or out-of-state residents. All fees are subject to change without notice.

Tuition is paid directly to SMMC-SOMI. Students who receive financial aid from Marshall may receive fall aid by August, but must contact the Financial Aid office early in order to do so. Students may be granted a short-term extension in fee payment under extenuating circumstances.

PROJECTED EXPENSES

Projected expenses apply to SOMI courses only at the CFE. Students who take coursework at Marshall University may have additional fees or other expenses.

| Year One Fall | | Year One Spring | |
|------------------------------|----------------|--------------------------|-------------|
| Tuition | 4120 | Tuition | 4120 |
| Books | 200 (estimate) | Books | 100 |
| Uniforms | 200 (estimate) | | |
| Drug/Screen/Background check | 100 | | |
| Total | 4620 | Total | 4200 |
| Year Two Fall | | Year Two Spring | |
| Tuition | 4120 | Tuition | 4120 |
| Books | 200 (estimate) | Books | 100 |
| Drug Screen Background check | 100 | | |
| Toital | 4420 | Total | 4200 |
| Year Three Fall | | Year Three Spring | |
| Tuition | 4120 | Tuition | |
| Books | 100 | Books | 100 |
| Fees (graduation) | 50 | | |
| Drug Screen/ | 100 | | |
| Total | 4370 | | 4200 |

Despite any policy to the contrary, for any students using U.S. Department of Veterans Affairs (VA) Post 9/11 G.I. Bill® (Ch. 33) or Vocational Rehabilitation and Employment (Ch. 31) benefits, while payment to the institution is pending from the VA, we will not:

- Prevent their enrollment;
- Assess a late penalty fee to;
- Require they secure alternative or additional funding;
- Deny their access to any resources (access to classes, libraries, or other institutional facilities) available to other students who have satisfied their tuition and fee bills to the institution.

However, to qualify for this provision, such students may be required to:

- Produce the VA's Certificate of Eligibility by the first day of class;
- Provide written request to be certified;
- Provide additional information needed to properly certify the enrollment as described in other institutional policies (see our VA School Certifying Official for all requirements).

TECHNICAL STANDARDS

Technical standards are those standards or abilities that a student must possess to be successful in this profession. All applicants are required to sign a Technical Standards Review Declaration Form to be submitted with application form.

Part of the training in radiologic technology involves working one on one with patients. Student technologists are responsible for the safety and well-being of their patients while performing examinations. The students will also be manipulating equipment where the potential injury to the patient and student is present.

1. Motor Skills

- extend the hands and arms in any direction
- hold, grasp and turn with the hands
- safely lift, manipulate and use equipment
- reach up to six feet off the floor
- ability to coordinate eyes, hands and feet rapidly and accurately
- lift 30-35 lbs. waist high
- push and pull at least 100 lbs.

2. Visual Acuity

- sufficient far vision to see objects beyond 20 feet
- sufficient near vision to see objects within 20 inches
- depth perception
- see in all directions
- observe and evaluate changes in the patient or equipment

3. Communication Ability

- perceive the nature of sounds through hearing
- be able to speak, hear and observe patients
- express and exchange information through written and verbal communication

4. Behavioral Skills

- function effectively under stress
- establish sensitive and cooperative relations with patients and co-workers
- adapt to changing environments

** See Admission above regarding Declaration Form**

Credit Hour

One lecture credit hour is given for each 15 classroom contact hours, plus necessary outside preparation. For nursing courses, one laboratory credit hour requires at least 45 hours of laboratory work per credit hour, plus necessary outside preparation. Laboratory experiences are complements to classroom courses that focus on the theory and principles of the discipline.

Formulated: Prior to 5/2002

Revised: 6/02, 5/03, 5/04, 5/05, 5/06, 4/08, 3/10, 7/10, 9/12

Reviewed: 7/21

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CFE Administrative Assistant
CFE Admissions Coordinator

Paula Cremeans 304/526-1426
Melba Curry 304/526-1423

PROCEDURE: Curriculum:

Students in the SOMI have several choices regarding curriculum tracks. All sophomore (year 2) students follow the same curriculum. At the end of the sophomore year, students may elect to continue in the radiography track or apply to the sonography track. Sonography will be limited enrollment and selection criteria are primarily based on MI coursework GPA. In the event of a tie, MU science courses and MU GPA will be used as the determining factor. Senior students (year 4) in either sonography or radiography have additional options. Radiography students will select from one of six advanced modality tracks. Sonography will select General/OB-GYN or Cardiovascular. A new option is available to students from the Marshall University Department of Physics whereby the student may obtain a double major in imaging and physics or a minor in either. See separate curriculum grid below. General Education requirements from Marshall University may change. Students should consult with the College of Health Professions at MU to determine any general education requirements. Students are required to complete both MU and SMMC graduation requirements prior to receiving their certificate from SMMC. Specific course sequences are subject to change.

BS Medical Imaging Radiography

| BS MI Core Curriculum: General Ed requirements in (red) Program prerequisites in (blue) | | | |
|---|--------|---|--------|
| Year 1 Fall | | Year 1 Spring | |
| Course | Credit | Course | Credit |
| BSC 227 Human Anatomy | 4 | BSC 228 Human Physiology (Nat science) | 4 |
| Communication: Course | 3 | PHY 101 Conceptual Physics | 3 |
| Medical Terminology (CT) | 3 | PHY 101L Conceptual physics lab | 1 |
| ENG 101 English Composition I (or equivalent) (composition) | 3 | Social Science Course | 3 |
| MTH 121 or higher NOT MTH 125 (mathematics) | 3 | FYS 100 First Yr Sem Critical Thinking | 3 |
| | | Composition: English 201 | 3 |
| Total | 16 | Total | 17 |
| Admission to MI program between year 1 and 2 | | | |
| Year 2 Fall | | Year 2 Spring | |
| MI 201 Introduction to Medical Imaging | 3 | MI 207 Imaging Procedures II | 4 |
| MI 202 Patient Care in Imaging Science | 3 | MI 208 Pharmacology for Imaging Science | 2 |
| MI 204 Radiographic Anatomy | 3 | MI 209 Intro to Equipment | 3 |
| MI 205 Imaging Procedures I | 4 | MI 210 Clinical Practice II | 4 |
| MI 206 Clinical Practice I | 4 | MI 212 Seminar in Imaging Science | 1 |
| MI 211 Seminar Imaging Science | 1 | MI 304 Pathology | 3 |
| Total | 18 | Total | 17 |
| Summer (1st Intercession) | | | |

| | | | |
|---|-------|---|----|
| MI 213 Elective Clinical Practicum I | 4 | | |
| Total | 4 | | |
| Year 3 Fall RADIOGRAPHY | | Year 3 Spring | |
| MI 302 Principles of Rad Production | 3 | MI 308 Rad Image Analysis | 2 |
| MI 303 Image Acquisition | 3 | MI 309 Digital Image Acquisition | 2 |
| MI 305 Clinical Practice IV | 4 | MI 310 Clinical Practice V | 4 |
| MI 306 Seminar in Imaging Sciences | 1 | MI 311 Seminar Imaging Sciences | 1 |
| MI 307 Radiobiology | 3 | MI 322 Radiation Safety | 3 |
| MI 321 Procedures III | 3 | Statistics | 3 |
| Total | 17 | Total | 15 |
| Summer (1st intercession) | | | |
| MI 320 (Elective) | 4 | | |
| Total | 4 | | |
| Year 4 Radiography Professional Level: Students will select one of the following areas of emphasis | | | |
| Computed Tomography/Magnetic Resonance Imaging, Cardiovascular/Interventional, Mammography or Management | | | |
| MRI Elective Track | | | |
| Year 4 Fall | | Year 4 Spring | |
| MI 401 Seminar in Imaging Sci | 1 | MI 410 Research Medical Imaging (Capstone) * Requires Statistics as a prerequisite | 3 |
| MI 402 Quality Management | 3 | MI 411 Transcultural Healthcare (Writing intensive, multicultural) | 3 |
| MI 403 Adv Practice Medical Img (Writing intensive) | 3 | MI 426 Adv Clinical Practice II | 4 |
| MI 404 Advanced Sectional Anatomy | 3 | MI 432 Advanced MRI Theory | 3 |
| MI 406 MRI Equip and Proc | 4 | MI 435 Seminar ARRT Review II | 1 |
| MI 409 Adv Clinic I | 4 | | |
| MI 428 Forensic Radiography (Elective) | 3 | | |
| Fine arts | 3 | | |
| Total | 16-22 | Total | 14 |
| CT Elective Track | | | |
| Year 4 Fall | | Year 4 Spring | |
| MI 401 Seminar in Imaging Science | 1 | MI 405 CT Equipment and Proc | 3 |
| MI 402 Quality Management | 3 | MI 410 Research Methods (Capstone)* Requires Statistics as a prerequisite | 3 |
| MI 403 Adv Practice Medical Img (Writing intensive) | 3 | MI 411 Transcultural Healthcare (Writing intensive, multicultural) | 3 |
| MI 404 Advanced Sectional Anatomy | 3 | MI 426 Adv Clinical Practice II | 4 |
| MI 409 Adv Clinic | 4 | MI 435 Seminar ARRT Review II | 1 |
| MI 428 Forensic Radiography (Elective) | 3 | | 1 |

| | | | |
|--|-------|--|----|
| MI 433 Point of Care Ultrasound (Elective) | | | |
| Fine arts | 3 | | |
| Total | 14-20 | | 14 |
| Vascular Interventional Radiology Track | | | |
| Fall | | Spring | |
| MI 401 Seminar in Img Sci | 1 | MI 407 Cardiovascular Anatomy | 3 |
| MI 402 Quality Management | 3 | MI 410 Research Medical Imaging (Capstone)*Requires Statistics as a prerequisite | 3 |
| MI 403 Adv Practice Medical Img (Writing intensive) | 3 | MI 411 Transcultural Healthcare (Writing intensive, multicultural) | 3 |
| MI 408 Vascular Interventional | 3 | MI 426 Adv Clinical Practice II | 4 |
| MI 409 Adv Clinical Practice I | 4 | MI 435 Seminar ARRT Review II | 1 |
| MI 428 Forensic Radiography (Elective) | 3 | | |
| MI 433 Point of Care Ultrasound (required) | 3 | | |
| Fine arts | 3 | | |
| Total | 20-23 | Total | 14 |
| Cardiovascular Track | | | |
| Fall | | Spring | |
| MI 401 Seminar in Img Science | 1 | MI 407 Cardiovascular Anatomy | 3 |
| MI 402 Quality Management | 3 | MI 410 Research Medical Imaging (Capstone)*Requires Statistics as a prerequisite | 3 |
| MI 403 Advanced Practice Med Img (Writing Intensive) | 3 | MI 411 Transcultural Healthcare (Writing intensive, multicultural) | 3 |
| MI 409 Adv Clinic | 4 | MI 426 Adv Clinical Practice II | 4 |
| MI 428 Forensic Radiography (elective) | | MI 435 Seminar ARRT Review II | 1 |
| MI 433 Point of Care Ultrasound (required) | 3 | | |
| MI 434 Cardiovascular Imaging | 3 | | |
| Fine Arts | 3 | | |
| Total | 20-23 | | 14 |
| Mammography Track | | | |
| Fall | | Spring | |
| MI 401 Seminar in Imag Sci | 1 | MI 410 Research Medical Imaging (Capstone)*Requires Statistics as a prerequisite | 3 |
| MI 402 Quality Management | 3 | MI 411 Transcultural Healthcare (Writing intensive, multicultural) | 3 |

| | | | |
|---|----------|--|----|
| MI 403 Adv Practice Medical Img (Writing intensive) | 3 | MI 426 Adv Clinical Practice II | 4 |
| MI 409 Adv Clinical Practice I | 3 | MI 430 Mammography II | 3 |
| MI 414 Mammography I | 4 | MI 435 Seminar ARRT Review II | 1 |
| MI 428 Forensic Radiography (Elective) | 3 | MI 437 Breast Sonography (Elective) | 3 |
| Fine arts | 3 | | |
| Total | 17-20 | Total | 17 |
| Management Track Fall RTs Only | | Spring RTs Only | |
| MI 402 Quality Management | 3 | | |
| MI 403 Adv Practice Medical Img (Writing intensive) | 3 | MI 410 Research Medical Imaging (Capstone)*Requires Statistics as a prerequisite | 3 |
| MI 412 Radiography Management I | 3 | MI 411 Transcultural Healthcare (Writing intensive, multicultural) | 3 |
| MI 409 Adv Clinical Practice | 4 | MI 413 Radiography Management II | 3 |
| MI 428 Forensic Radiography (Elective) | 3 | MI 415 RIS and PACS Technology | 3 |
| Fine arts | 3 | MI 426 Adv Clinical Practice II | 4 |
| Total | 17-20 | Total | 16 |
| Adv Diagnostic Rad Fall | | Spring | |
| MI 401 Seminar in Imaging Sci | 1 | MI 410 Research Medical Imaging (Capstone)*Requires Statistics as a prerequisite | 3 |
| MI 402 Quality Management | 3 | MI 411 Transcultural Healthcare (Writing intensive, multicultural) | 3 |
| MI 403 Adv Practice Medical Img (Writing intensive) | 3 | MI 426 Adv Clinical Practice II | 4 |
| MI 409 Adv Clinical Practice | 4 | MI 429 Geriatric/Pediatric Radiography | 3 |
| MI 427 Adv Trauma-Surgical Radiography | 3 | MI 435 Seminar ARRT Review II | 1 |
| MI 428 Forensic Radiography (Elective) | 3 | | |
| Fine arts | 3 | | |
| Total | 17-20 | | 14 |
| BS Medical Imaging: Sonography | | | |
| YEAR Three SONOGRAPHY Students may select General Sonography or Cardiovascular Sonography area of emphasis by the spring semester of the junior year | | | |
| Summer Intercession | | | |
| MI 214 Intro to Sonography | 3 | | |
| Total | 3 | | |

| Fall (General/OB GYN Sonography) | | Spring (General/OB/GYN Sonography) | |
|---|----|---|-------|
| MI 306 Seminar Imaging Science | 1 | MI 311 Seminar Imaging Science | 1 |
| MI 312 Abdominal Sonography I | 4 | MI 316 Abdominal Sonography II | 3 |
| MI 313 Ultrasound Physics I | 3 | MI 317 Ultrasound Physics II | 3 |
| MI 314 Clinical Practice I Sonography | 4 | MI 319 Clinical Practice II Sonography | 4 |
| MI 315 Small Parts | 3 | MI 416 Obstetrical sonography I | 3 |
| MI 318 Vascular I | 3 | MI 437 Breast Sonography (elective) | 3 |
| | | Statistics | 3 |
| Total | 18 | Total | 17-20 |
| Summer (1st intercession) | | | |
| MI 320 Required | 4 | | |
| Total | 4 | | |

Cardiovascular Sonography Track

| | | | |
|--|----|---|-------|
| Summer Intercession | | | |
| MI 214 Intro to Sonography | 3 | | |
| Total | 3 | | |
| Year Three Cardiovascular Fall | | Spring (Cardiovascular) | |
| MI 306 Seminar Imaging Science | 1 | MI 311 Seminar Imaging Science | 1 |
| MI 312 Abdominal Sonography I | 4 | MI 316 Abdominal Sonography II | 3 |
| MI 313 Ultrasound Physics I | 3 | MI 317 Ultrasound Physics II | 3 |
| MI 314 Clinical Practice I Sonography | 4 | MI 319 Clinical Practice II Sonography | 4 |
| MI 315 Small Parts Sonography | 3 | MI 407 Cardiovascular anatomy | 3 |
| MI 318 Vascular I | 3 | MI 424 Vascular II | 3 |
| | | Statistics | 3 |
| Total | 18 | | 17-20 |
| Summer (1st intercession) | | | |
| MI 320 Clinic II | 3 | | |
| Total | 3 | | |
| Year Four General Sonography Track Fall | | Spring | |
| MI 403 Adv Practice Med Imaging (WAC) | 3 | MI 410 Research Medical Imag (Capstone)*Requires Statistics as a prerequisite | 3 |
| MI 417 Gynecological Sonography I | 3 | MI 411 Transcultural Healthcare (WAC/MC) | 3 |
| MI 418 Registry Review | 1 | MI 421 Gynecological Sonography II | 2 |
| MI 419 Clinical Practice III | 4 | | |
| MI 420 Obstetrical Sonography II | 2 | MI 422 Clinical Practice IV Sonography | 4 |
| Fine arts | 3 | MI 436 Registry Review | 1 |
| Total | 18 | Total | 13 |

| | | | |
|---|--------------|---|-----------|
| Cardiovascular Sonography Track Fall | | Spring | |
| MI 403 Adv Practice Med Imaging (WAC) | 3 | MI 410 Research Medical Imag (Capstone)*Requires Statistics as a prerequisite | 3 |
| MI 418 Registry Review | 1 | MI 411 Transcultural Healthcare (WAC/MC) | 3 |
| MI 419 Clinical Practice III Sonography | 4 | MI 422 Clinical Practice IV Sonography | 4 |
| MI 423 Echasonography I | 3 | MI 425 Echasonography II | |
| Fine arts | 3 | MI 436 Registry Review | 1 |
| Total | 13-16 | Total | 18 |
| Summer Clinical Elective for radiography or sonography | | | |
| MI 431 | 4 | | |
| Total | 4 | | |
| SONOGRAPHY ELECTIVES As offered | | | |
| FALL | | SPRING | |
| MI 428 Forensic Radiography | 3 | MI 437 Breast Sonography | 3 |
| MI 439 Pediatric Echo I | 3 | MI 438 Fetal Echo | 3 |
| MI 441 Advanced Echo I | 3 | MI 440 Pediatric Echo II | 3 |
| | | MI 442 Advanced Echo II | 3 |

BS Medical Imaging Physics Area of Emphasis

| | | | |
|--|------------|---|-----------|
| BS MI Core Curriculum: Physics Area of Interest Option One. Student enters medical imaging program in junior year and does not complete advanced imaging options. This option is designed for the student who wishes to obtain the basic imaging certification and then to continue into graduate school in medical physics or dosimetry. | | | |
| Year 1 Fall | | Year 1 Spring | |
| Course | Credit | Course | Credit |
| BSC 227 Human Anatomy | 4 | BSC 228 Human Physiology (Nat science | 4 |
| PHY 211 University Physics I | 3 | PHY 213 University Physics II | 3 |
| PHY 202 Gen Physics Lab I | 1 | PHY 204 General Physics Lab II | 1 |
| ENG 101 English Composition I (or equivalent) (composition) | 3 | Social Science Course | 3 |
| MTH 229 | 3 | FYS 100 First Yr Sem Critical Thinking | 3 |
| Medical Terminology (CT) | 3 | Composition: English 201 | 3 |
| Total | 17 | Total | 17 |
| Admission to MI program between year 1 and 2 | | | |
| Year 3 Fall | | Year 3 Spring | |
| MI 201 Introduction to Radiography | 3 | MI 207 Imaging Procedures II | 4 |
| MI 202 Patient Care in Imaging Science | 3 | MI 208 Pharmacology for Imaging Science | 2 |
| MI 204 Radiographic Anatomy | 3 | MI 304 Radiographic Pathology | 3 |
| MI 205 Imaging Procedures I | 4 | MI 210 Clinical Practice II | 4 |
| MI 206 Clinical Practice I | 4 | MI 212 Seminar in Imaging Science | 1 |
| MI 211 Seminar Imaging Science | 1 | Humanities Course | 3 |
| Total | 18 | Total | 17 |
| Summer Clinical Elective for radiography | | | |
| MI 213 | 4 | | |
| Total | 3-7 | | |
| Year 4 Fall RADIOGRAPHY | | Year 4 Spring | |

| | | | |
|---|-------|---|----|
| | 3 | MI 302 Radiographic Equipment and Physics II | 3 |
| MI 303 Image Acquisition | 3 | MI 308 Rad Image Analysis | 2 |
| MI 305 Clinical Practice IV | 4 | MI 309 Digital Image Acquisition | 2 |
| MI 306 Seminar Imaging Sciences | 1 | MI 310 Clinical Practice V | 4 |
| MI 307 Radiobiology | 3 | MI 311 Seminar Imaging Sciences | 1 |
| MI 321 Procedures III | 3 | Statistics 345 | 3 |
| Total | 17 | Total | 15 |
| Summer Clinical Elective for radiography or sonography | | | |
| MI 320 | 4 | | |
| Total | 4 | | |
| Year 4 Radiography Professional Level: Students will select one of the following areas of emphasis | | | |
| Computed Tomography/Magnetic Resonance Imaging, Cardiovascular/Interventional, Mammography or Management | | | |
| CT Track | | | |
| Year 4 Fall | | Year 4 Spring | |
| MI 401 Seminar in Imaging Sci | 1 | MI 405 CT Equip and Procedures | 3 |
| MI 402 Quality Management | 3 | MI 410 Research Medical Imaging (Capstone)*Requires Statistics as a prerequisite | 3 |
| MI 403 Adv Practice Medical Img (Writing intensive) | 3 | MI 411 Transcultural Healthcare (Writing intensive, multicultural) | 3 |
| MI 404 Adv Sectional Anatomy | 3 | MI 426 Adv Clinical Practice II | 4 |
| MI 409 Adv Clinic I | 4 | MI 435 Seminar ARRT Exam Review II | 1 |
| MI 428 Forensic Radiography (Elective) | 3 | | |
| Fine arts | 3 | | |
| Total | 17-20 | Total | 14 |
| Summer Intercession | | | |
| MI 431 Adv Clinical Practice in Rad or Sonography (Elective) | 4 | | |
| MRI Track | | | |
| Fall | | Spring | |
| MI 401 Seminar in Imaging Sci | 1 | MI 410 Research Medical Imaging (Capstone)* Requires Statistics as a prerequisite | 3 |
| MI 402 Quality Management | 3 | MI 411 Transcultural Healthcare (Writing intensive, multicultural) | 3 |
| MI 403 Adv Practice Medical Img (Writing intensive) | 3 | MI 426 Adv Clinical Practice II | 4 |
| MI 404 Adv Sectional Anatomy | 3 | MI 432 Adv MRI Theory | 3 |
| MI 406 MRI Equip and Proc | 3 | MI 435 Seminar ARRT Exam Review II | 1 |
| MI 409 Adv Clinic I | 4 | | |
| MI 428 Forensic Radiography (Elective) | 3 | | |
| Fine arts | 3 | | |
| Total | 17-20 | Total | 14 |
| Summer Intercession | | | |
| Cardiovascular/Interventional Radiology Track | | | |
| Fall | | Spring | |
| MI 401 Seminar in Imaging Sci | 1 | MI 407 Cardiovascular Anatomy | 3 |
| MI 402 Quality Management | 3 | MI 410 Research Medical Imaging (Capstone)* Requires Statistics as a prerequisite | 3 |
| MI 403 Adv Practice Medical Img (Writing intensive) | 3 | MI 411 Transcultural Healthcare (Writing intensive, multicultural) | 3 |
| MI 408 Vascular Interventional Img or MI 434 Cardiovascular Imaging | 3 | MI 426 Adv Clinical Practice II | 4 |

| | | | |
|---|-------|--|----|
| MI 409 Adv Clinical Practice I | 4 | MI 435 Seminar ARRT Exam Review II | 1 |
| MI 428 Forensic Radiography (Elective) | 3 | | |
| MI 433 Point of Care Ultrasound (Elective) | 3 | | |
| Fine arts | 3 | | |
| Total | 19-22 | Total | 14 |
| Summer Intercession | | | |
| Mammography Track Fall | | Spring | |
| MI 401 Seminar in Imaging Sci | 1 | MI 410 Research Medical Imaging (Capstone)*Requires Statistics as a prerequisite | 3 |
| MI 402 Quality Management | 3 | MI 411 Transcultural Healthcare (Writing intensive, multicultural) | 3 |
| MI 403 Adv Practice Medical Img (Writing intensive) | 3 | MI 426 Adv Clinical Practice II | 4 |
| MI 414 Mammography I | 3 | MI 430 Mammography II | 3 |
| MI 409 Adv Clinical Practice I | 4 | MI 435 Seminar ARRT Exam Review II | 1 |
| MI 428 Forensic Radiography (Elective) | 3 | | |
| MI 433 Point of Care Ultrasound (Elective) | 3 | | |
| Fine arts | 3 | | |
| Total | 16-19 | | |
| Summer Intercession | | | |
| Fine arts | 3 | | |
| Total | 17-20 | Total | 17 |
| Adv Diagnostic Rad Fall | | Spring | |
| MI 401 Seminar in Imaging Science | 1 | MI 410 Research Medical Imaging (Capstone) | 3 |
| MI 402 Quality Management | 3 | MI 411 Transcultural Healthcare (Writing intensive, multicultural) | 3 |
| MI 403 Adv Practice Medical Img (Writing intensive) | 3 | MI 426 Adv Clinical Practice II | 4 |
| MI 409 Adv Clinical Practice | 4 | MI 429 Geriatric/Pediatric Radiography | 3 |
| MI 427 Adv Trauma-Surgical Radiography | 3 | MI 435 Seminar ARRT Exam Review II | 1 |
| MI 428 Forensic Radiography (Elective) | 3 | | |
| Fine arts | 3 | | |
| Total | 17-20 | | 14 |
| Summer Clinical Elective for radiography or sonography | | | |
| MI 431 | 4 | | |
| Total | 4 | | |

| | | | |
|--|--------|---|--------|
| BS MI Core Curriculum: Physics Area of Interest Option Two. Student could pursue advanced imaging area of interest as well as physics. | | | |
| Year 1 Fall | | Year 1 Spring | |
| Course | Credit | Course | Credit |
| BSC 227 Human Anatomy | 4 | BSC 228 Human Physiology (Nat science) | 4 |
| PHY 211 University Physics I | 3 | PHY 213 University Physics II | 3 |
| PHY 202 Gen Physics Lab I | 1 | PHY 204 General Physics Lab II | 1 |
| ENG 101 English Composition I (or equivalent) (composition) | 3 | Social Science Course | 3 |
| MTH 229 | 3 | FYS 100 First Yr Sem Critical Thinking | 3 |

| | | | |
|---|-------|--|----|
| Medical Terminology (CT) | 3 | Composition: English 201 | 3 |
| Total | 17 | Total | 17 |
| Admission to MI program between year 1 and 2 | | | |
| Year 2 Fall | | Year 2 Spring | |
| MI 201 Introduction to Radiography | 3 | MI 207 Imaging Procedures II | 4 |
| MI 202 Patient Care in Imaging Science | 3 | MI 208 Pharmacology for Imaging Science | 2 |
| MI 204 Radiographic Anatomy | 3 | MI 304 Radiographic Pathology | 3 |
| MI 205 Imaging Procedures I | 4 | MI 210 Clinical Practice II | 4 |
| MI 206 Clinical Practice I | 4 | MI 212 Seminar in Imaging Science | 1 |
| MI 211 Seminar Imaging Science | 1 | Humanities Course | 3 |
| Total | 18 | Total | 17 |
| Summer Clinical Elective for radiography or sonography | | | |
| MI 213 | 4 | | |
| Communications Course | 3 | | |
| Total | 3-7 | | |
| Year 3 Fall RADIOGRAPHY | | Year 3 Spring | |
| | 3 | MI 302 Radiographic Equipment and Physics II | 3 |
| MI 303 Image Acquisition | 3 | MI 308 Rad Image Analysis | 2 |
| MI 305 Clinical Practice IV | 4 | MI 309 Digital Image Acquisition | 2 |
| MI 306 Seminar Imaging Sciences | 1 | MI 310 Clinical Practice V | 4 |
| MI 307 Radiobiology | 3 | MI 311 Seminar Imaging Sciences | 1 |
| MI 321 Procedures III | 3 | Statistics 345 | 3 |
| Total | 17 | Total | 15 |
| Summer Clinical Elective for radiography or sonography | | | |
| MI 320 | 4 | | |
| Total | 4 | | |
| Year 4 Radiography Professional Level: Students will select one of the following areas of emphasis | | | |
| Computed Tomography/Magnetic Resonance Imaging, Cardiovascular/Interventional, Mammography or Management | | | |
| CT Track | | | |
| Year 4 Fall | | Year 4 Spring | |
| MI 401 Seminar in Imaging Sci | 1 | MI 405 CT Equip and Procedures | 3 |
| MI 402 Quality Management | 3 | MI 410 Research Medical Imaging (Capstone)*Requires Statistics as a prerequisite | 3 |
| MI 403 Adv Practice Medical Img (Writing intensive) | 3 | MI 411 Transcultural Healthcare (Writing intensive, multicultural) | 3 |
| MI 404 Adv Sectional Anatomy | 3 | MI 426 Adv Clinical Practice II | 4 |
| MI 409 Adv Clinic I | 4 | MI 435 Seminar ARRT Exam Review II | 1 |
| MI 428 Forensic Radiography (Elective) | 3 | | |
| Fine arts | 3 | | |
| Total | 17-20 | Total | 14 |
| Summer Intercession | | | |
| MI 431 Adv Clinical Practice in Rad or Sonography (Elective) | 4 | | |
| MRI Track | | | |
| Fall | | Spring | |
| MI 401 Seminar in Imaging Sci | 1 | MI 410 Research Medical Imaging (Capstone)*Requires Statistics as a prerequisite | 3 |
| MI 402 Quality Management | 3 | MI 411 Transcultural Healthcare (Writing intensive, multicultural) | 3 |

| | | | |
|---|-------|---|----|
| MI 403 Adv Practice Medical Img (Writing intensive) | 3 | MI 426 Adv Clinical Practice II | 4 |
| MI 404 Adv Sectional Anatomy | 3 | MI 432 Adv MRI Theory | 3 |
| MI 406 MRI Equip and Proc | 3 | MI 435 Seminar ARRT Exam Review II | 1 |
| MI 409 Adv Clinic I | 4 | | |
| MI 428 Forensic Radiography (Elective) | 3 | | |
| Fine arts | 3 | | |
| Total | 17-20 | Total | 14 |
| Summer Intercession | | | |
| Cardiovascular/Interventional Radiology Track | | | |
| Fall | | Spring | |
| MI 401 Seminar in Imaging Sci | 1 | MI 407 Cardiovascular Anatomy | 3 |
| MI 402 Quality Management | 3 | MI 410 Research Medical Imaging (Capstone) | 3 |
| MI 403 Adv Practice Medical Img (Writing intensive) | 3 | MI 411 Transcultural Healthcare (Writing intensive, multicultural) | 3 |
| MI 408 Vascular Interventional Img or MI 434 Cardiovascular Imaging | 3 | MI 426 Adv Clinical Practice II | 4 |
| MI 409 Adv Clinical Practice I | 4 | MI 435 Seminar ARRT Exam Review II | 1 |
| MI 428 Forensic Radiography (Elective) | 3 | | |
| MI 433 Point of Care Ultrasound (Elective) | 3 | | |
| Fine arts | 3 | | |
| Total | 19-22 | Total | 14 |
| Summer Intercession | | | |
| Mammography Track Fall | | Spring | |
| MI 401 Seminar in Imaging Sci | 1 | MI 410 Research Medical Imaging (Capstone)* Requires Statistics as a prerequisite | 3 |
| MI 402 Quality Management | 3 | MI 411 Transcultural Healthcare (Writing intensive, multicultural) | 3 |
| MI 403 Adv Practice Medical Img (Writing intensive) | 3 | MI 426 Adv Clinical Practice II | 4 |
| MI 414 Mammography I | 3 | MI 430 Mammography II | 3 |
| MI 409 Adv Clinical Practice I | 4 | MI 435 Seminar ARRT Exam Review II | 1 |
| MI 428 Forensic Radiography (Elective) | 3 | | |
| MI 433 Point of Care Ultrasound (Elective) | 3 | | |
| Fine arts | 3 | | |
| Total | 16-19 | | |
| Summer Intercession | | | |
| Fine arts | 3 | | |
| Total | 17-20 | Total | 17 |
| Adv Diagnostic Rad Fall | | Spring | |
| MI 401 Seminar in Imaging Science | 1 | MI 410 Research Medical Imaging (Capstone)* Requires Statistics as a prerequisite | 3 |
| MI 402 Quality Management | 3 | MI 411 Transcultural Healthcare (Writing intensive, multicultural) | 3 |
| MI 403 Adv Practice Medical Img (Writing intensive) | 3 | MI 426 Adv Clinical Practice II | 4 |
| MI 409 Adv Clinical Practice | 4 | MI 429 Geriatric/Pediatric Radiography | 3 |
| MI 427 Adv Trauma-Surgical Radiography | 3 | MI 435 Seminar ARRT Exam Review II | 1 |
| MI 428 Forensic Radiography (Elective) | 3 | | |
| Fine arts | 3 | | |
| Total | 17-20 | | 14 |

| | | | |
|---|---|--|--|
| Summer Clinical Elective for radiography or sonography | | | |
| MI 431 | 4 | | |
| Total | 4 | | |

| | | | |
|---|--------|---|--------|
| BS MI Core Curriculum: Physics Area of Interest Option Two. Student could pursue advanced imaging area of interest as well as physics. | | | |
| Year 1 Fall | | Year 1 Spring | |
| Course | Credit | Course | Credit |
| BSC 227 Human Anatomy | 4 | BSC 228 Human Physiology (Nat science | 4 |
| PHY 211 University Physics I | 3 | PHY 213 University Physics II | 3 |
| PHY 202 Gen Physics Lab I | 1 | PHY 204 General Physics Lab II | 1 |
| ENG 101 English Composition I (or equivalent) (composition) | 3 | Social Science Course | 3 |
| MTH 229 | 3 | FYS 100 First Yr Sem Critical Thinking | 3 |
| Medical Terminology (CT) | 3 | Composition: English 201 | 3 |
| Total | 17 | Total | 17 |
| Admission to MI program between year 1 and 2 | | | |
| Year 2 Fall | | Year 2 Spring | |
| MI 201 Introduction to Radiography | 3 | MI 207 Imaging Procedures II | 4 |
| MI 202 Patient Care in Imaging Science | 3 | MI 208 Pharmacology for Imaging Science | 2 |
| MI 204 Radiographic Anatomy | 3 | MI 304 Radiographic Pathology | 3 |
| MI 205 Imaging Procedures I | 4 | MI 210 Clinical Practice II | 4 |
| MI 206 Clinical Practice I | 4 | MI 212 Seminar in Imaging Science | 1 |
| MI 211 Seminar Imaging Science | 1 | Humanities Course | 3 |
| Total | 18 | Total | 17 |
| Summer Clinical Elective for radiography or sonography | | | |
| MI 213 | 4 | | |
| Communications Course | 3 | | |
| Total | 3-7 | | |
| Year 3 Fall RADIOGRAPHY | | Year 3 Spring | |
| | 3 | MI 302 Radiographic Equipment and Physics II | 3 |
| MI 303 Image Acquisition | 3 | MI 308 Rad Image Analysis | 2 |
| MI 305 Clinical Practice IV | 4 | MI 309 Digital Image Acquisition | 2 |
| MI 306 Seminar Imaging Sciences | 1 | MI 310 Clinical Practice V | 4 |
| MI 307 Radiobiology | 3 | MI 311 Seminar Imaging Sciences | 1 |
| MI 321 Procedures III | 3 | Statistics 345 | 3 |
| Total | 17 | Total | 15 |
| Summer Clinical Elective for radiography or sonography | | | |
| MI 320 | 4 | | |
| Total | 4 | | |
| Year 4 Radiography Professional Level: Students will select one of the following areas of emphasis | | | |
| Computed Tomography/Magnetic Resonance Imaging, Cardiovascular/Interventional, Mammography or Management | | | |
| CT Track | | | |
| Year 4 Fall | | Year 4 Spring | |
| MI 401 Seminar in Imaging Sci | 1 | MI 405 CT Equip and Procedures | 3 |

| | | | |
|---|-------|---|----|
| MI 402 Quality Management | 3 | MI 410 Research Medical Imaging (Capstone)*Requires Statistics as a prerequisite | 3 |
| MI 403 Adv Practice Medical Img (Writing intensive) | 3 | MI 411 Transcultural Healthcare (Writing intensive, multicultural) | 3 |
| MI 404 Adv Sectional Anatomy | 3 | MI 426 Adv Clinical Practice II | 4 |
| MI 409 Adv Clinic I | 4 | MI 435 Seminar ARRT Exam Review II | 1 |
| MI 428 Forensic Radiography (Elective) | 3 | | |
| Fine arts | 3 | | |
| Total | 17-20 | Total | 14 |
| Summer Intercession | | | |
| MI 431 Adv Clinical Practice in Rad or Sonography (Elective) | 4 | | |
| MRI Track | | | |
| Fall | | Spring | |
| MI 401 Seminar in Imaging Sci | 1 | MI 410 Research Medical Imaging (Capstone)*Requires Statistics as a prerequisite | 3 |
| MI 402 Quality Management | 3 | MI 411 Transcultural Healthcare (Writing intensive, multicultural) | 3 |
| MI 403 Adv Practice Medical Img (Writing intensive) | 3 | MI 426 Adv Clinical Practice II | 4 |
| MI 404 Adv Sectional Anatomy | 3 | MI 432 Adv MRI Theory | 3 |
| MI 406 MRI Equip and Proc | 3 | MI 435 Seminar ARRT Exam Review II | 1 |
| MI 409 Adv Clinic I | 4 | | |
| MI 428 Forensic Radiography (Elective) | 3 | | |
| Fine arts | 3 | | |
| Total | 17-20 | Total | 14 |
| Summer Intercession | | | |
| Cardiovascular/Interventional Radiology Track | | | |
| Fall | | Spring | |
| MI 401 Seminar in Imaging Sci | 1 | MI 407 Cardiovascular Anatomy | 3 |
| MI 402 Quality Management | 3 | MI 410 Research Medical Imaging (Capstone)*Requires Statistics as a prerequisite | 3 |
| MI 403 Adv Practice Medical Img (Writing intensive) | 3 | MI 411 Transcultural Healthcare (Writing intensive, multicultural) | 3 |
| MI 408 Vascular Interventional Img or MI 434 Cardiovascular Imaging | 3 | MI 426 Adv Clinical Practice II | 4 |
| MI 409 Adv Clinical Practice I | 4 | MI 435 Seminar ARRT Exam Review II | 1 |
| MI 428 Forensic Radiography (Elective) | 3 | | |
| MI 433 Point of Care Ultrasound (Elective) | 3 | | |
| Fine arts | 3 | | |
| Total | 19-22 | Total | 14 |
| Summer Intercession | | | |
| Mammography Track Fall | | Spring | |
| MI 401 Seminar in Imaging Sci | 1 | MI 410 Research Medical Imaging (Capstone) *Requires Statistics as a prerequisite | 3 |
| MI 402 Quality Management | 3 | MI 411 Transcultural Healthcare (Writing intensive, multicultural) | 3 |
| MI 403 Adv Practice Medical Img (Writing intensive) | 3 | MI 426 Adv Clinical Practice II | 4 |
| MI 414 Mammography I | 3 | MI 430 Mammography II | 3 |
| MI 409 Adv Clinical Practice I | 4 | MI 435 Seminar ARRT Exam Review II | 1 |
| MI 428 Forensic Radiography (Elective) | 3 | | |
| MI 433 Point of Care Ultrasound (Elective) | 3 | | |

| | | | |
|---|-------|--|----|
| Fine arts | 3 | | |
| Total | 16-19 | | |
| Summer Intercession | | | |
| Fine arts | 3 | | |
| Total | 17-20 | Total | 17 |
| Adv Diagnostic Rad Fall | | Spring | |
| MI 401 Seminar in Imaging Science | 1 | MI 410 Research Medical Imaging (Capstone) *Requires Statistics as a prerequisite | 3 |
| MI 402 Quality Management | 3 | MI 411 Transcultural Healthcare (Writing intensive, multicultural) | 3 |
| MI 403 Adv Practice Medical Img (Writing intensive) | 3 | MI 426 Adv Clinical Practice II | 4 |
| MI 409 Adv Clinical Practice | 4 | MI 429 Geriatric/Pediatric Radiography | 3 |
| MI 427 Adv Trauma-Surgical Radiography | 3 | MI 435 Seminar ARRT Exam Review II | 1 |
| MI 428 Forensic Radiography (Elective) | 3 | | |
| Fine arts | 3 | | |
| Total | 17-20 | | 14 |
| Summer Clinical Elective for radiography or sonography | | | |
| MI 431 | 4 | | |
| Total | 4 | | |
| | | | |

Revised: 7/21

COURSE DESCRIPTIONS

MI 201 Intro to Radiography (3hrs) Fall

Content is designed to provide an overview of the foundations in radiography and the practitioner's role in the health care delivery system. Principles, practices and policies of the health care organization(s) are examined and discussed in addition to the professional responsibilities of the radiographer. Students will become BCLS certified and undergo orientation required by JACHO prior to entering clinical practice. Students will be introduced to the concept of radiation protection for occupational workers, patients, family and visitors. PR: MTH 121, PHY 101, PHY 101L

MI 202 Patient Care in Imaging Science (3 Hrs) Fall

Content is designed to provide the basic concepts of patient care, including consideration for the physical and psychological needs of the patient and family. Routine and emergency patient care procedures are described, as well as infection control procedures using standard precautions. The role of the radiographer in patient education is identified.

MI 204 – Radiographic Anatomy (3 Hrs) Fall

Content is designed to introduce the student to radiographic anatomy. The student will identify anatomical structures depicted on radiographs including film radiography and digital imaging. The student will be introduced to sectional anatomy as demonstrated with computed tomography, magnetic resonance imaging and sonography. Emphasis is placed on identifying structures visible on correctly performed radiographic procedures.

PR: BSC 227, BSC 228: CR : MI 205

MI 205 Imaging Procedures I (4 Hrs) Fall

Content is designed to provide the knowledge base necessary to perform standard imaging procedures. Consideration is given to the evaluation of optimal diagnostic images. Includes a laboratory component. Students will practice imaging procedures in the laboratory prior to performing the procedure on patients. PR: BSC 227, BSC 228, MI 201: CR: MI 204, MI 206

MI 206 – Clinical Practice I Radiography (4 Hrs) Fall

Content and clinical practice experiences are designed to sequentially develop, apply, critically analyze, integrate, synthesize and evaluate concepts and theories in the performance of radiologic procedures. Through structured, sequential, competency-based clinical assignments, concepts of team practice, patient-centered clinical practice and professional development are discussed, examined and evaluated. Clinical practice experiences are designed to provide patient care and assessment, competent performance of radiologic imaging and total quality management. Levels of competency and outcomes measurement ensure the well-being of the patient preparatory to, during and following the radiologic procedure. Students will be assigned a number of mandatory and elective competencies to be completed during each clinical practice course.

PR: MI 201: CR: MI 202, MI 203, MI 205

MI 207 – Imaging Procedures II (3 Hrs) Spring

Content is designed to provide the knowledge base necessary to perform standard imaging procedures, including basic computed tomography (CT) and special studies. Consideration is given to the evaluation of optimal diagnostic images. Includes a laboratory component. Students will practice imaging procedures in the laboratory prior to performing the procedure on patients. PR: BSC 227, BSC 228, MI 204, MI 205, MI 206: CR: MI 210

MI 208 – Pharmacology and Drug Administration (2 Hr) Spring

Content is designed to provide basic concepts of pharmacology. The theory and practice of basic techniques of venipuncture and administration of diagnostic contrast agents and/or intravenous medications is included. The appropriate delivery of patient care during these procedures is emphasized. Though regulations regarding the administration of contrast media and intravenous medications vary in different states and institutions, the official position of the American Society of Radiologic Technologists is that venipuncture falls within the profession's general scope of practice and practice standards. Therefore, it should be included in the didactic and clinical curriculum with demonstrated competencies of all appropriate disciplines regardless of the state or institution where the curriculum is taught.

PR: BSC 227, MI 202, MI 203, MI 204, proof of BCLS certification.

MI 209 – Introduction to Imaging Equipment (3 Hr) Fall

Content is designed to establish a knowledge base in radiographic, fluoroscopic, mobile and tomographic equipment requirements and design. The content also provides a basic knowledge of quality control and to provide entry-level radiography students with principles related to computed tomography (CT) imaging.

PR: MTH 121, PHY 101, PHY 101L

MI 210 – Clinical Practice II Radiography (4 Hrs) Spring

Students will begin clinical practice rotations in computed tomography, radiation oncology, nuclear medicine and cardiovascular procedures as well as diagnostic radiography. Emphasis is placed on achieving competency in mandatory and elective clinical procedures as required for ARRT certification.

PR: MI 206: CR: MI 207, MI 209

MI 211 – Seminar in Imaging Science (1Hr) Fall

Students will research and make short presentations on new developments in imaging science. Emphasis is placed on developing the student's oral communication skills, research skills, and introducing the student to the concept of continuing education as mandated by the ASRT.

MI 212-Seminar in Imaging Science (1 Hr) Spring

MI 213-Elective Clinical Practicum 1 (4 Hr) Summer Intercession

Elective clinical practicum in radiography or sonography

MI 214 – Intro to Sonography (3Hr) Summer Intercession

Introduction to the principles of sonography.

MI 302 – Principles of Radiation Physics (3 Hr) Spring

Content is designed to establish a basic knowledge of the nature and characteristics of radiation, x-ray production and the fundamentals of photon interactions with matter. The student will be introduced to the concepts of radioactivity including half-life and radioactive decay. This course will provide basic knowledge of principles associated with diagnostic radiography, nuclear medicine imaging and radiation oncology.

PR: PHY 101, PHY 101L, MTH 121, MI 209.

MI 303 – Image Acquisition and Processing (3 Hr) Fall

Content is designed to establish a knowledge base in factors that govern the image production process. Film imaging with related accessories is emphasized. There is a laboratory component to this course. The student will be able to experimentally alter image acquisition factors and evaluate the effects without unnecessary exposure to the patient.

PR: MTH 121, MI 210

MI 304 – Radiographic Pathology (3 Hr) Spring

Content is designed to introduce concepts related to disease and etiological considerations with emphasis on radiographic appearance of disease and impact on exposure factor selection.

PR: BSC 227, BSC 228, MI 204: CR: MI 303

MI 305 – Clinical Practice IV Radiography (4 Hr) Fall

Students will continue clinical practice rotations in diagnostic radiography, computed tomography, radiation oncology, nuclear medicine and cardiovascular procedures. Emphasis is placed on achieving competency in mandatory and elective clinical procedures as required for ARRT certification including venipuncture.

PR: MI 301.

MI 306 – Seminar in Imaging Science (1 Hr) Fall

Students will research and make short presentations on advanced practice methodologies in imaging science. Emphasis is placed on developing the student's oral communication skills, research skills, and introducing the student to the concept of continuing education as mandated by the ASRT.

MI 307 – Rad(3 Hr) Fall

Content is designed to present an overview of the principles of radiation biology. The student will be introduced to the principles of the interaction of radiation with living systems. Radiation effects on molecules, cells, tissues and the body as a whole are presented. Factors affecting biological response are presented, including acute and chronic effects of radiation. PR: BSC 227, BSC 228, CHM 203,.

MI 308 – Radiographic Image Analysis (2 Hr) Spring

Content is designed to provide a basis for analyzing radiographic images. Included are the importance of minimum imaging standards, discussion of a problem-solving technique for image evaluation and the factors that can affect image quality. Actual images will be included for analysis.

PR: MI 204, MI 205, MI 208, MI 303, MI 304

MI 309 – Digital Image Acquisition and Display (2 Hr) Spring

Content is designed to impart an understanding of the components, principles and operation of digital imaging systems found in diagnostic radiology. Factors that impact image acquisition, display, archiving and retrieval are discussed. Guidelines for selecting exposure factors and evaluating images within a digital system assist students to bridge between film-based and digital imaging systems. Principles of digital system quality assurance and maintenance are presented. PR: IT 101, MI 303

MI 310 – Clinical Practice V Radiography (4 Hr) Spring

Students will continue clinical practice rotations in diagnostic radiography, computed tomography, radiation oncology, nuclear medicine and cardiovascular procedures. Emphasis is placed on achieving competency in mandatory and elective clinical procedures as required for ARRT certification including venipuncture. Special emphasis is placed on surgical, mobile and emergency radiography.

PR: MI 305

MI 311-Seminar in Imaging Science (1 Hr) Spring

Seminar on new and emerging techniques in imaging sciences

MI 312- Abdominal Sonography I (4 Hr) Fall

This course covers basic abdominal sonographic positioning and scanning protocols as it relates to normal anatomy of the abdomen. Laboratory included.

MI 313-Ultrasound Physics I (3 Hr) Fall

The focus of this course is to educate students about the physics of sound waves and their interaction with tissue enabling the display of diagnostic imaging.

MI 314-Clinical Practice I Sonography (4 Hr) Fall

Clinical practice experiences are designed for sequential development, application, critical analysis, integration, synthesis and evaluation of concepts and theories in the performance of sonographic procedures.

MI 315-Small Parts Sonography (3 Hr) Fall

This course covers anatomy, positioning and scanning protocol of the superficial structures.

MI 316-Abdominal Sonography II (3 Hr) Spring

This course covers basic abdominal sonographic positioning and scanning protocols as it relates to normal anatomy, anatomical variants, physiology to include the retroperitoneum, associated abdominal vasculature identified.

MI 317-Ultrasound Physics II (3 Hr) Spring

The focus of this course is to educate students about the physics of sound waves and their interaction with tissue enabling the display of diagnostic imaging. This is a continuation of MI 313 Ultrasound Physics I

MI 318-Vascular Sonography I (4 Hr) Spring

Discussion of vascular disease, duplex examinations with comparison to arteriography as it pertains to venous and visceral vascular examinations. Laboratory included.

MI 319-Clinical Practice II Sonography (4 Hr) Spring

Clinical practice experiences are designed for sequential development, application, critical analysis, integration, synthesis and evaluation of concepts and theories in the performance of sonographic procedures.

MI 320-Elective Clinical Practicum II (4 Hr) Summer Intercession

Elective clinical practicum in radiography or sonography.

MI 321 Imaging Procedures III (4 Hr) Fall

Content is designed to provide the knowledge necessary for advanced diagnostic radiographic imaging procedures.

MI 322 Radiation Safety (3 Hr) Spring

PR: MI 302, MI 307

MI 401 – Seminar in Imaging Science (1 Hr) Spring

This course introduces the student to ARRT exam taking skills, mock examinations of the ARRT matrix, and self-evaluation studies. Study methods and application are also covered. A study of realistic clinical problems and situations, with emphasis on analyzing and evaluating these problems to formulate acceptable imaging modalities is included. Upon successful completion of the course, including a mock ARRT exit exam, the student will be awarded the Certificate from St. Mary's Medical Center School of Medical Imaging that will allow the student to sit for the ARRT Primary exam in Radiography

MI 402 – Quality Management (3 Hr) Fall

This course is a core requirement for all students regardless of the Advanced Practice track. Quality management is important to ensure the proper functioning of equipment and compliance with government and accreditation standards. Thus, technologists should have an understanding of the activities and their role in the quality management (QM) process. This content is designed to expand the QM skills of the technologist to include digital imaging systems and the application of QM principles in an imaging department. Course will include review of the ARRT Post-primary exam in QM. Students who select the management track will be expected to initiate procedures outlined in the QM exam content. Candidates for the ARRT Advanced Practice exam are required to perform the required number of repetitions for each procedure. Repetitions must be performed within the 24 month period immediately before submitting the application for certification. Repetitions may be completed in less than 24 months.

PR: ARRT

MI 403 – Advanced Practice in Medical Imaging (3 Hr) Fall Meets Writing Across the Curriculum general education requirement for Marshall University

This course is a core requirement for all students regardless of the Advanced Practice track. The focus of the course will include advanced discussion of communication, human diversity including the political context of health care, health care policy formation, health care law and compliance, patient information management and teamwork.

PR: ARRT

MI 404 – Advanced Sectional Anatomy (3 Hr) Fall

The ability to locate and identify structures in the axial (transverse), sagittal, coronal and orthogonal (oblique) planes is critical in all imaging modalities. Volumetric data sets and three-dimensional reconstruction of the body structures are increasingly important to the critical diagnosis and treatment of diseases. To enhance patient care and assist physicians with the prognosis, radiologic science professionals must understand cross-sectional anatomy in each of the imaging modalities. Content will include discussion of advanced pathophysiology.

PR: ARRT: CR: MI 405, MI 407

MI 405 – CT procedures and equipment (3 Hr) Spring

This course will focus on advanced patient care skills including ACLS, imaging procedures and equipment in computed tomography.

PR: ARRT: CR: MI 404, MI 408

MI 406 – MRI procedures and equipment (3 Hr) Fall

This course will focus on advanced patient care skills including ACLS, imaging procedures and equipment in magnetic resonance imaging.

PR: ARRT: CR: MI 404, MI 408

MI 407 – Cardiovascular Anatomy and Physiology (3 Hr) Spring

This course will focus on cardiovascular anatomy and physiology including the heart anatomy and coronary, systemic, pulmonary, peripheral and cerebral circulation. Content will include discussion of advanced pathophysiology relating to the vascular system including cardiac physiology.

PR: ARRT: CR: MI 407, MI 408

MI 408 – Vascular Interventional Imaging (3 Hr) Fall

This course will focus on advanced patient care skills including ACLS, procedures and equipment utilized in cardiovascular and vascular/interventional imaging.

PR: ARRT: CR: MI 406, MI 408

MI 409 – Advanced Clinical Practice (4 Hr) Fall

Students in advanced clinical practice tracks will be required to complete ACLS certification. Students will be responsible for arranging clinical experience in an approved clinical facility in computed tomography, magnetic resonance imaging, vascular/interventional imaging or cardiac imaging. ARRT advanced practice exams in CT, MRI, VI and CV require that all recorded clinical procedures be completed within 24 months of the exam. Students will be advised of specific exam content.

PR: ARRT, ACLS

MI 410– Research in Medical Imaging (3 Hr) Capstone Course Spring

This course is a core requirement for all students regardless of the Advanced Practice Track. Research methods and information literacy are important because the health care profession is continually changing, which requires the radiologic technologist to possess new knowledge to function competently. The radiologic technologist should contribute to the body of knowledge and be able to effectively analyze resources to promote growth in the profession. The attitude of lifelong learning enables the radiologic technologist to stay in step with the current health care environment and be prepared to help foster the future and increase awareness of the profession in the global community. This content is geared to increase and disseminate intellectual inquiry, information literacy and the use of scholarly research methods.

PR: ARRT, Statistics, MI 402, MI 403. This course will satisfy the Writing Across the Curriculum Requirement.

MI 411-Transcultural Healthcare (3 Hr) Spring meets Multicultural and Writing Across the Curriculum general education requirements for Marshall University

This course is intended to provide an introduction to a culturally comparative analysis of health and healing. Readings provide both comparative ethnographic details and a theoretical framework for organizing and interpreting information about health. Class will meet weekly to discuss assigned readings. It is important that healthcare workers understand the concept of culture as a fluid, permeable, changeable set of collective beliefs, values, and behaviors that inform, shape and constrain the worldviews and personal choices of individuals in healthcare decision making. The course emphasizes a multidisciplinary approach to healthcare that will promote cultural sensitivity toward patients, physicians and healthcare professionals.

MI 412 – Radiography Management I (3 Hr) Fall

Course will provide radiographers with management principles pertinent to medical imaging, including imaging departmental accreditation.

MI 413 – Radiography Management II (3 Hr) Spring

Continuation of MI 412 to provide radiographer with management principles related to medical imaging.

MI 414 – Mammography (3 Hr) Fall

Introduction to medical imaging of the breast. Focus is to prepare student for advanced certification exam in Mammography.

MI 415-RIS and PACS Principles (3 Hr) Spring

Course content provides basic knowledge of digital storage systems, computer networking, radiology information systems (RIS), and picture archiving and communication systems (PACS).

MI 416-Obstetrical Sonography I (3 Hr) Fall

This course covers basic obstetrical sonographic positioning and scanning protocols as it relates to the normal anatomy of the fetus.

MI 417-Gynecological Sonography I (3 Hr) Fall

This course presents a study of anatomy and physiology of the nongravid and first trimester pelvis

MI 418-Registry Review Sonography (1 Hr) Fall

This course introduces the student to ARDMS exam taking skills, mock examinations of the ARDMS matrix, and self-evaluation studies. Study methods and application are also covered. A study of realistic clinical problems and situations, with emphasis on analyzing and evaluating these problems to formulate acceptable imaging modalities is included. Upon successful completion of the course, including a mock ARDMS exit exam, the student will be awarded the Certificate from St. Mary's Medical Center School of Medical Imaging that will allow the student to sit for the appropriate ARDMS exam.

MI 419-Clinical Practice III Sonography (4 Hr) Fall

Clinical practice experiences are designed for sequential development, application, critical analysis, integration, synthesis and evaluation of concepts and theories in the performance of sonographic procedures.

MI 420-Obstetrical Sonography II (2 Hr) Spring

This course focuses on sonographic techniques in high risk pregnancies and fetal abnormalities.

MI 421-Gynological Sonography II (2 Hr) Spring

This course presents a study of the pathology of the nongravid pelvis and first trimester.

MI 422-Clinical Practice IV Sonography (4 Hr) Spring

Clinical practice experiences are designed for sequential development, application, critical analysis, integration, synthesis and evaluation of concepts and theories in the performance of sonographic procedures

MI 423-Echosonography I (3 Hr) Fall

This course covers basic adult heart sonographic positioning and scanning protocols, as it relates to normal anatomy, anatomical variants and physiology of the adult heart.

MI 424-Vascular Sonography II (3 Hr) Fall

Discussion of vascular pathology and the use of plethysmography techniques in sonography

MI 425-Echosonography II (3 Hr) Spring

This course is a continuation of MI 423 and covers basic adult heart sonographic positioning and scanning protocols as it relates to anatomical variants and physiology of the adult heart.

MI 426-Advanced Clinical Practice II (4 hr) Spring

Students will arrange clinical experience in selected imaging modality to gain competency in clinical procedures required to sit for post-primary ARRT certification exams.

MI 427-Advanced Trauma-Surgical Radiography (3 hr) Fall
Advanced practice course in trauma and surgical radiography for imaging sciences.

MI 428-Forensic Radiography (3 hr) Spring (Elective for all imaging tracks)
This course will focus on introducing forensic radiography techniques and theoretical models.

MI 429-Geriatric and Pediatric Radiography (3 hr) Spring
This course will focus on advanced diagnostic imaging in the geriatric and pediatric population including mobile radiography.

MI 430-Mammography II (3 hr) Spring
Advanced medical imaging of the breast.

MI 431-Advanced Clinical Practice III (4 hr) Summer Intercession
Elective advanced clinical practicum in radiography or sonography.

MI 432-Advanced MRI Theory (3 hr) Spring
Advanced Magnetic Resonance Imaging Equipment and Procedures

MI 433-Point of Care Ultrasound (3 hr) Fall Elective
This course will introduce the basic principles of point of care ultrasound for vascular and cardiac interventional radiography and mammography.

MI 434-Cardiovascular Imaging (3hr) Fall
This course will focus on diagnostic and interventional procedures of the cardiovascular system.

MI 435-Seminar ARRT Exam Review II (1 hr) Spring
This is a review course for the ARRT primary exam certification

MI 436-Seminar Sonography Registry Review II (1hr) Spring
This course is designed to prepare the sonography student for their second specialty exam through the ARDMS

MI 437- Breast Sonography (3 Hr) Spring Elective
This course covers anatomy, positioning and scanning protocol for the breast as well as an introduction to ultrasound physics.
PR MI 414, or permission of instructor.

MI 438 Fetal Echocardiography (3 Hr) Spring Elective
This course focuses on sonographic techniques in high risk pregnancies and fetal heart abnormalities.

MI 439 Pediatric Echocardiography I (3 Hr) Fall Elective
This course focuses on sonographic techniques in pediatric cardiac abnormalities

MI 440 Pediatric Echocardiography II (3Hr) Spring Elective
This course is a continuation of MI 439 and focuses on sonographic techniques in pediatric echocardiography.
PR MI 439

MI 441 Advanced Echo I (3 Hr) Fall

This course focuses on sonographic techniques in pediatric echocardiography and is designed for the credentialed echocardiographer training in the area of pediatric echo.

PR: ARDMS credentials

MI 442 Advanced Echo II (3 Hr) Spring

This course is a continuation of MI 441 advanced sonographic techniques in pediatric echocardiography and is designed for the credentialed echocardiographer training in the area of pediatric echo.

PR: ARDMS credentials.

MI 480 – 483 Special Topics (1-4 Hr) Fall, Spring

Course will cover special topics in medical imaging.

MI 485 – 488 Independent Study (1-4 Hr) Fall, Spring

Course will provide imaging student the opportunity to pursue independent study.

Reviewed: 7/21