

Nuclear Medicine Technology

Plan of Study
Nuclear Medicine Technology BS program
Saint Cloud State University
Version: December 16, 2021

Medical Physics email address: medicalphysics at stcloudstate dot edu

Fall Semester	Spring Semester
BIOL 266 (Medical Terminology)--2 credits CHEM 210 (Gen. Chem 1)--4 credits [take CHEM 160 (Prep. Chem) before 210 if needed--4 credits] MATH 112 (College Algebra)--3 credits (high priority) [need satisfactory math placement score or MATH 072 first] ENGL 191 (Intro. to Writing)--4 credits Total: 13 credits Complete job shadowing this semester.	BIOL 151 (Cell Function)--4 credits [need MATH 112 first] CHEM 211 (Gen. Chem 2)--4 credits PHYS 231 (Gen. Physics I)--4 credits [MATH 112 needed before PHYS 231] CMST 192 (Intro. to Comm. Studies)--3 credits Total: 15 credits Start getting direct patient contact experience (continue in summer). Apply for major at end of this semester.
Fall Semester	Spring Semester
BIOL 202 (Anatomy and Physiology I)--4 credits PHYS 232 (Gen. Physics II)--4 credits STAT 239 (Statistics for the Biological and Physical Sciences)--3 credits PHIL 194 (Critical Reasoning)--3 credits Liberal Education--3 credits Total: 17 credits Continue direct patient contact experience.	BIOL 204 (Anatomy & Physiology II)--4 credits CHEM 452 (Nuclear Chemistry)--3 credits; take this as soon as you can. [PHYS 452 (Introduction to Radiation Protection, 3 cr.) is acceptable in place of CHEM 452.] PHIL 212 (Ethics course; Liberal Education goals 6 and 9)--3 credits Liberal Education--3 credits Total: 13 credits Continue direct patient contact experience (and continue in summer).
Fall Semester	Spring Semester
CHEM 240 (Basic Organic Chemistry)--4 credits CHEM 350 (Quantitative Analysis)--4 credits NMDT 499--1 credit Liberal Education--3 credits Liberal Education--3 credits Total: 15 credits Apply for clinical internship this semester.	PHYS 408 (Physics of Digital Medical Imaging)--3 credits [PHYS 232 needs to be completed before PHYS 408] [CHEM 452 / PHYS 452 (take here if not offered previous year)] Liberal Education--3 credits Liberal Education--3 credits Liberal Education--3 credits Elective (any course)--1 credit or more Total: 13 credits
Fall Semester	Spring Semester
Internship NMDT Courses (17 credits)	Internship NMDT Courses (17 credits) [summer is included also] Total Credits: 120

BIOL 202, CHEM 240 only offered in the Fall semester.

CHEM 240 cannot be taken the same semester as PHYS 232.

BIOL 204, PHYS 408, PHYS 452, CHEM 452: only offered in the Spring semester.

CHEM 452 / PHYS 452: not offered every year; be prepared to take one of these as soon as possible.

IMPORTANT NOTES:

1. US citizenship is required for this major. Non-US citizens should not choose this major.
2. Students need a "C" or better in all math and science courses. Overall GPA must be 2.50 or higher.
3. Courses should be taken in the order given above. This plan of study takes into account when courses are offered and what pre-requisites are needed for each course. Students who take courses in a sequence that is different from the sequence given here run the risk of needing more time to finish the program because not all courses are offered every semester and because many courses must be taken in a specific order.
4. Students interested in this program must get advising help from the program director.
5. This major will fulfill the requirements for two Liberal Education Goal Areas: Goal 3 (Science) and Goal 4 (Math).
6. This is a competitive program, as are all medical programs. Some competition in terms of obtaining a clinical internship should be expected by the students. A clinical internship is required. There is no guarantee or promise that a student will get a clinical internship. Each student is encouraged to have a backup plan (i.e., an alternate major) in case he or she cannot get a clinical internship.
7. Recommended courses: BIOL 262, 360, 368; SOC 475.
8. A background check will be required.
9. Transfer students need to complete at least 30 credits at SCSU before May of year 3.