RADIOLOGIC SCIENCES (aka: DIAGNOSTIC IMAGING)

Attached is information on the **Radiologic Sciences Program** (formerly known as Diagnostic Imaging) at Thomas Jefferson University (in Philadelphia), including the course prerequisites that could be taken at Shippensburg University. This program is referred to as a "2+2" program because students who take the proper courses can complete their prerequisite work at Shippensburg in two years, apply to Jefferson's program during the fall semester of their sophomore year and, if accepted, complete the remaining two years of their specific program (e.g., Radiologic Sciences) at Jefferson. The student then receives a B.S. in Radiologic Sciences from Jefferson. (They also pay TJU tuition during the two years in Philadelphia.)

Alternatively, one could complete an undergraduate degree at Shippensburg (typically Biology) and include in those four years the prerequisite courses required by TJU's Radiologic Sciences program. The individual would then apply to the Advanced Placement program at TJU (or any post-baccalaureate program at other institutions) in the fall of his/her senior year. These post-baccalaureate programs are typically 12-18 months long and lead to certification in one of the Radiologic Sciences disciplines (e.g., ultrasound, radiography, MRI, etc.).

The Shippensburg application lists the Allied Health Sciences-Thomas Jefferson University "major" (# 492092). This is the most appropriate selection for an entering freshman who is planning to leave Shippensburg after two years. However, if the student came in as a freshman under the Allied Health Sciences-TJU "major" and later chose to stay at Shippensburg for four years, they would need to declare another major by the end of their sophomore year. Biology (or Psychology) is probably the most appropriate major to prepare for radiologic sciences if the student is at Shippensburg longer than two years. Additionally, some students come in as "undeclared" and, with advice for Dr. David Long, health sciences advisor in the Biology department, they can select appropriate coursework within their two years at Shippensburg to be prepared to matriculate to the TJU Radiologic Sciences program.

The attached information is specific to the Radiologic Sciences program at Thomas Jefferson University regarding courses needed to be taken at Shippensburg during the first two years. Furthermore, students should try to take courses appropriate for a major if in the event they were to be here for four years.

Current **high school seniors** might also consider the **PACE** program with Jefferson. It is competitive but, if the student is accepted, it guarantees a seat in the Radiologic Sciences program two years from application. PACE application deadlines are "rolling" so if one applies late in the year, the seats might be filled. If you are interested in applying to the PACE-RS program, I recommend contacting TJU as to whether they are still accepting PACE-RS applications at this point. TJU can be contacted by calling 1-877-533-3247. The PACE application is a separate application from your Shippensburg University application and it is sent directly to TJU.

Yet another possibility for students who are interested in radiologic sciences is to consider transferring to Mount Aloysius College, Cresson, PA (near Altoona) after one or two years at Shippensburg. Several Shippensburg students have done this and the coursework outlined for the TJU program is equally appropriate for the Mount Aloysius program. HOWEVER, Shippensburg University does not have an affiliation agreement with Mount Aloysius College. Former students who successfully transferred to Mount Aloysius for radiologic sciences personally visited and spoke with radiologic sciences admissions personnel at Mount Aloysius to outline their matriculation plans.

Do not hesitate to contact me if you have any questions.

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Website for Thomas Jefferson University College of Health Professions: http://www.jefferson.edu/jchp

Website for Mount Aloysius College: http://www.mtaloy.edu/

THOMAS JEFFERSON UNIVERSITY
COLLEGE OF HEALTH PROFESSIONS
AND
SHIPPENSBURG UNIVERSITY
AFFILIATE PROGRAMS

MINIMUM COURSE REQUIREMENTS FOR ENTRY INTO THE PROGRAM OF

RADIOLOGIC SCIENCES PROGRAMS

(2+2 program)

Thomas Jefferson Requirements	**Shippensburg University Equivalent Courses (in credits)**
1. Anatomy/Physiology (8 Credits) (must be for science majors)	BIO 161 – Principles of Biology – Cell Structure & Function (4) * BIO 162 – Principles of Biology – Organismal Diversity (4) * BIO 350 - Human Physiology (4) BIO 371 - Human Anatomy (4)
2. Medical Terminology (3 credits)	** not available at SU – needs to be taken in the summer at HACC or another school – often offered on-line at various community colleges
3. Physics (non-calculus based) (4 credits) (8 credits required for all programs for students beginning **2014**)	PHY 121 - Introductory Physics I with PHY 123 (4) *PHY 122 - Intro. Physics II with PHY 125 lab (4) *(*Physics II is required for **Dosimetry** and **Nuclear Medicine**)*
4. Chemistry (8 credits) (required for **Nuclear Medicine**) (required for all programs for students beginning **2014**)	CHM 121 - Chemical Bonding (3) *with* CHM 125 - Laboratory IB (1) CHM 122 - Chemical Dynamics (3) *with* CHM 126 - Laboratory IIB (1)
5. College Mathematics (6 credits) (must be College Algebra or higher) * ***(need two courses)***	MAT 140B - College Algebra (3) *(requires SATm 535-605)* **OR** MAT 175 - Precalculus (3) *(requires SATm 610+)* **OR** MAT 211 - Calculus I (4)
6. Statistics (3 credits)	MAT 117 - Applied Statistics (4)
7. English (6 credits) preferred ----------→	ENG 106 - Writing Intensive 1st year seminar (3) ENG 238 - Technical/Professional Writing I - (3) **OR** ENG 250 - Intro. to Literature (3)
10. Electives (Social Sciences, Humanities, Arts, etc.) (variable credits)	Any of the following courses: (others may be considered with advisor approval) PSY 101 - General Psychology (3) – required for students entering 2013 SOC 101 - Principles of Sociology (3) - required for students entering 2013 ART 101 - Art Appreciation (3) HCS 100 - Intro. to Human Communication (3) HIS 105 – Historical Foundations of Global Cultures (3) HIS 106 – Thinking Historically in a Global Age (3) MUS 121 - Introduction to Music (3) ISM 142 - Intro. to Business Computer Systems (3) PHL 101 - Introduction to Philosophy (3) SPN 101 - Beginning Spanish (3) – strongly recommended
MINUMUM TOTAL credits 50 (the number of elective credits needed will depend on whether Chemistry and/or Physics II are taken as indicated above)	*** can use BIO 161 & BIO 162 as electives here, too**

Academic courses from accredited institutions with a grade of 'C' or above and CLEP scores are acceptable for transfer.

The Medical Dosimetry and Radiation Therapy programs now require a shadowing experience (a minimum of one day) as part of the admission process.

Radiologic Sciences Programs

Multicompetency Programs (2-Year Program):

- 24-month, full-time program beginning in September
- graduates are eligible to sit for the national certification examinations in their chosen modality upon completion of the program

2-Year Program Options

The Radiologic Sciences program has six first year options*. There are a number of modality choices for the second year, however, students must consult with a TJU admissions counselor or a Radiologic Sciences faculty member to ensure the selected combination meets all prerequisite requirements.

Cardiac Sonography*
Computed Tomography
General Sonography*
Invasive Cardiovascular Technology
Magnetic Resonance Imaging
Medical Dosimetry
Nuclear Medicine*
Radiography*
Radiation Therapy*
Vascular Sonography*

Additional Second Year Non-Imaging Options

Education
Health Management

Advanced Placement Program options (post-baccalaureate, 1 year):

- enrollment for the Advanced Placement programs takes place in September and the programs are offered on as full-time basis for 12 months
- students with a bachelor's degree may apply to the following AP programs:

Cardiac Sonography
General Sonography
Medical Dosimetry
Nuclear Medicine
Radiation Therapy
Radiography
Vascular Sonography

SUGGESTED COURSE SEQUENCE FOR THE 2+2 RADIOLOGIC SCIENCES PROGRAM

Freshman Year

Fall Semester		**Spring Semester**
BIO 161 – Princ. Biology – Cell Structure/Function (4)		BIO 162 – Princ. Biology – Organismal Diversity (4)
PSY 101 - General Psychology (3)		--- - general elective (3)
HCS 100 – Intro. Human Communication (3)	← OR →	ENG 106 – Writing Intensive 1st yr sem. (3)
MAT ??? - appropriate level math course (3)		MAT ??? – second appropriate level math course (3)
ENG 248 OR 250 – 2nd English elective (3)	← OR →	SOC 101 – Principles of Sociology (3)

Summer – take a 3 credit **Medical Terminology** course (perhaps on-line at a community college)

Sophomore Year

Fall Semester	**Spring Semester**
BIO 371 - Human Anatomy (4)	BIO 350 - Human Physiology (4)
PHY 121 - Intro. Physics I (3)	PHY 122 - Intro. Physics II (3)
PHY 123 – Intro. Physics I lab (1)	PHY 125 – Intro. Physics II lab (1)
CHM 121 - Chemical Bonding (3)	CHM 122 - Chemical Dynamics (3)
CHM 125 - chem lab IB (1)	CHM 126 - chem lab IIB (1)
MAT 117 – Applied Statistics (4)	--- - computer course or other elective (3)

Note: *One full year of BOTH physics and chemistry are required for all radiologic sciences students beginning with students entering TJU fall 2014.*