



John Patrick University
of Health and Applied Sciences

ACADEMIC CATALOG

**Volume 16, Effective August 5, 2019
2019/2020**

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Formerly Radiological Technologies University prior to August 5, 2019

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A Word from the President

John Patrick University of Health and Applied Sciences (JPU) is committed to the success of its students. Radiological Technologies University VT (RTU) opened its doors in 2009 with a focus on the Radiological Sciences and those supporting disciplines that surround it. Since University leadership has always had the goal of expanding beyond the radiologic science disciplines, RTU became John Patrick University of Health and Applied Sciences (JPU) as of August 5, 2019.

The University utilizes a blended learning environment for many degree programs to best train and educate its students for competency and entering the workforce. The University's multi-disciplinary approach has provided great connectivity in both the educational environment and the workplace. The University currently has sixteen degree and certificate programs under the following four schools:

1. School of Physics and Radiological Sciences
2. School of Imaging Sciences
3. School of Business and Informatics
4. School of Nutritional Health

The School of Physics and Radiological Sciences currently offers the following programs:

- ✓ Master of Science in Medical Physics
- ✓ Master of Science in Medical Dosimetry
- ✓ Master of Science in Medical Health Physics
- ✓ Master of Science in Health Physics
- ✓ Bachelor of Science in Medical Dosimetry
- ✓ Bachelor of Science in Radiation Therapy
- ✓ Associate of Science in Radiologic Technology
- ✓ Proton Therapy Certificate

The School of Business and Informatics currently offers the following program:

- ✓ Bachelor of Science in Radiologic Science

The School of Imaging Sciences currently offers the following programs:

- ✓ Bachelor of Science in Medical Imaging with specializations in Computed Tomography, Magnetic Resonance Imaging, Nuclear Medicine, and Sonography
- ✓ Positron Emission Tomography Certificate
- ✓ Computed Tomography Certificate
- ✓ Magnetic Resonance Imaging Certificate

The School of Nutritional Health currently offers the following programs:

- ✓ Graduate Certificate in Nutritional Counseling
- ✓ Graduate Certificate in Integrative and Functional Nutrition
- ✓ Graduate Certificate in Nutrigenomics
- ✓ Graduate Certificate in Nutrition Oncology

Each of these Schools operate very closely with each other, recognizing the synergy that can be created.

JPU believes the strength of its programs rely on three key components:

- ✓ Best Curriculum
- ✓ Best Faculty
- ✓ Best Students

Each program has a strong curriculum with dedicated and clinically-focused faculty. JPU's progressive approach to education provides students with the opportunities, resources and tools they need to reach their fullest potential both in education and professional discipline. JPU is engaged with students, graduates, faculty advisory boards and vendors to ensure strong program outcomes in the midst of economic climate change. You are invited to experience the JPU family.

With passion,

A handwritten signature in black ink that reads "Brent Murphy". The signature is written in a cursive, flowing style.

Brent Murphy, MS, DABR
President

Mission Statement

John Patrick University of Health and Applied Sciences strives to help students develop skills and competencies to enhance their career through personal involvement of students with faculty and staff toward achieving technical expertise for success.

GUIDING OBJECTIVES

- ✓ Providing Students with higher educational and training opportunities that are flexible and accessible.
- ✓ Providing higher educational and training opportunities that are current with technology and career demands.
- ✓ Providing faculty members that have demonstrated expertise in their respective domain, both professionally and academically.
- ✓ Delivering educational support services that meet student life demands and schedules.
- ✓ Building within students a value for life-long learning and education.
- ✓ Teaching students how to evaluate, to analyze, and to synthesize information to become more skillful at creating solutions in a career environment.
- ✓ Providing educational resources in a manner that effectively uses current technology.
- ✓ Offering our programs at times and at places that are accessible to students--on campus, off campus, and at those sites best served by state of the art technologies.

Indiana Code Requirement Statement

This institution is authorized by:
Indiana Board for Proprietary Education
101 West Ohio Street, Suite 300
Indianapolis, IN 46204-4206
317.464.4400 Ext. 138
317.464.4400 Ext. 141

Accrediting Commission of Career Schools and Colleges

John Patrick University of Health and Applied Sciences is accredited by the Accrediting Commission of Career Schools and Colleges (ACCSC). ACCSC is recognized by the United States Department of Education.

Accrediting Commission of Career Schools and Colleges
2101 Wilson Boulevard, Suite 302
Arlington, VA 22201
Phone: (703) 247-4212
Website: www.accsc.org

UNDERGRADUATE PROGRAM ACADEMIC CATALOG

2019 – 2020 Academic Calendar

Summer 2019

Application Due Date	March 15, 2019
Semester Start	May 6, 2019
Memorial Day	May 27, 2019
Independence Day	July 4, 2019
Boot Camp	July 13-15, 2019
Break	July 22-26, 2019
Semester End	August 20, 2019

Fall 2019 Semester

Application Due Date	July 20, 2019
Semester Start	September 2, 2019
Labor Day	September 2, 2019
Boot Camp	November 9-11, 2019
Break	November 25-29, 2019
Thanksgiving Day	November 28, 2019
Semester End	December 17, 2019

Spring 2020

Application Due Date	November 15, 2019
Semester Start	January 6, 2020
Martin Luther King Jr. Day	January 20, 2020
Boot Camp	March 14-16, 2020
Break	March 23-27, 2020
Semester End	April 21, 2020

Summer 2020

Application Due Date	March 15, 2020
Semester Start	May 4, 2020
Memorial Day	May 25, 2020
Independence Day	July 4, 2020
Boot Camp	July 11-13, 2020
Break	July 20-24, 2020
Semester End	August 18, 2020

Fall 2020

Application Due Date	July 20, 2020
Semester Start	September 7, 2020
Labor Day	September 7, 2020
Boot Camp	November 14-16, 2020
Break	November 23-27, 2020
Thanksgiving Day	November 26, 2020
Semester End	December 21, 2020

Teaching Methodology

Most programs at JPU are designed to be completed in four semesters, which can be a duration of two years if the student attends fall/spring/summer semesters or a shorter period of time if the student attends fall/spring/summer semesters. All semesters are fifteen weeks long. Students who wish to pursue a more traditional route will generally enroll for fall and spring semesters, which begin in September and January respectively. Students who wish to pursue an accelerated path may enroll in all three (fall/spring/summer) 15-week semesters and complete the program in roughly 16 to 18 months. Four semesters following the accelerated path can be completed in roughly 16 months (ex. fall, spring, summer, fall). An additional few months may be required in order for the student to complete the minimum required number of clinical internship hours for programs requiring a clinical internship.

The Clinical Internship (for programs that require one) is designed to be completed through a host site arranged by the student and university. Specific clinical internship requirements vary by program, but in all cases involve competencies that students must complete/observe as well as writing assignments based on their experiences.

Information on required textbooks and course material will be provided prior to the start of the course. Students are responsible for securing their required course materials unless otherwise stated. The syllabus for each course will be provided no later than the first day of the course.

JPU's course management system is used to manage communication and distribute all course material. The system allows students to communicate with other students, instructors, teacher's aides, and administrative personnel. During the semester, students are able to retrieve resources for classes, course material, weekly schedules and tasks, lecture videos and supplemental lecture material through the system.

Homework assignments and assessments can also be completed online through file upload features and interactive tests and quizzes. Progress reports and comments on assignments from instructors and teacher's aides are also available through the course management system. Students are required to attend weekly conferences via teleconference, webcast, or video chat with the instructor or instructor's assistant to aide them on course material, homework assignments, and weekly topics. Choice of delivery system is at the full discretion of the instructor.

Each semester, there is a schedule of offered courses along with the day and time required for each mandatory weekly discussion. In addition homework assignments and assessments will typically be due on Sundays. The syllabus for each course notes that these weekly schedules are subject to change.

To help students manage their personal and professional lives along with their course work, homework can usually be submitted until 11:59pm on the day the assignment is due. Assessments are scheduled ahead of time so the students can make allowances with their schedules. If the times allotted are an issue for a student that cannot be overcome, the student may address this with their instructor or the JPU administrator ahead of time so alternatives may be arranged.

It is the student's sole responsibility to make sure they are checking messages and announcements to ensure they are reviewing and completing all that is required of them. Administrative personnel, instructors, and teacher's aides make sure information is as visible and clear as possible. Open communication between the student and JPU is promoted to make sure there is no ambiguity.

Boot camp is scheduled during the fall, spring and summer semesters and satisfies the required on-site instruction for programs offered through a hybrid, or blended, delivery format. Boot camp is not required for programs that are offered entirely through distance education. Boot camps are designed to allow students to meet and work together in a classroom setting both with each other and the instructors. Boot camp includes events such as: lectures, student project presentations, tours, lab sessions for some courses, visiting lecturers, study sessions, and review sessions.

JPU awards credit based on attendance, homework project submissions, and assessments. Undergraduate program courses require a minimum grade of 70% (C) in order to receive credit. Graduate program courses require a minimum grade of 80% (B) in order to receive credit.

Hardware and Software Required by the Student

- ✓ A computer with a minimum of a Pentium processor
- ✓ High-speed internet access
- ✓ Ability to stream flash videos
- ✓ Ability to read and create pdf files
- ✓ A minimum of Microsoft® Office 2003 or equivalent. New versions of Microsoft® Office are available to each student through their student email account through Microsoft® Office365
- ✓ Email account
- ✓ Access to a scanner
- ✓ Access to a fax machine
- ✓ Access to a copier
- ✓ Access to a printer
- ✓ Access to a webcam and microphone

Non-Discrimination Policy

John Patrick University of Health and Applied Sciences is non-sectarian and does not discriminate with regard to race, creed, religion, color, national origin, age, gender, disability, marital status, or any other legally protected status or other protected class in any of its academic course activities, employment practices, or admissions policies.

General Physical Facilities and Equipment

JPU offers a hybrid learning environment where both online and on-site instruction is required. Students receive a secure username and password to access the online campus where they can manage their student account and attend classes. Students attend course lectures by watching videos that can be viewed any time of day as many times as the student wishes. Classes also have a required class meeting each week at a scheduled date and time administered as an online meeting.

On-site instruction is required each semester for one week called boot camp week. Students come to campus for guest lectures, lectures from faculty, student project presentations, group activities, tests, and lab exercises.

JPU's campus consists of administrative offices, classroom and computer lab space, a lobby and kitchenette area, and a library. The instructional facility is well-lit, air-conditioned, has free wireless internet, and has adequate seating, computer, and audio-visual equipment to provide students with an effective educational environment.

Computers with treatment planning software required for classes are available to students studying remotely through a remote desktop connection.

Facilities and Services for Students with Disabilities

John Patrick University of Health and Applied Sciences is proactive in meeting the needs of students with disabilities. Students with disabilities who have been admitted to the University may be eligible for tutors, note takers, extended time on exams, or assistive technology. All students admitted to the University have both building and program access.

Student services for disabilities include physical disability, learning disability, ADD/ADHD, and multiple disabilities. Students with disabilities are responsible for submitting appropriate documentation of their disability. Documentation from a psychiatrist, licensed clinical psychologist, or medical doctor are accepted. Students with disabilities may submit appropriate documentation to the Director of Administrative Services upon enrollment to the school or as soon as documentation is received by the student to submit to the school. Documentation should be submitted via email or mail:

John Patrick University of Health and Applied Sciences

Attn: Director of Administrative Services

100 E. Wayne Street, Suite 140

South Bend, IN 46601

Via email to info@Rtuvt.edu

JPU provides reasonable accommodations for students with documented disabilities arranged by the Director of Administrative Services. During boot camp week when students are on campus, all building and classroom facilities are able to accommodate students with documented disabilities. Entry to the building and school facilities, including classrooms, common areas, and restrooms, are handicap accessible. Elevators are available, if needed.

Degree Programs Offered

UNDERGRADUATE PROGRAMS

Associate of Science in Radiologic Technology	60 credits
Bachelor of Science in Medical Dosimetry	
Route for non-certified medical dosimetrists (non-CMD)	64 credits (120 ^A total)
Route for current certified medical dosimetrists (CMD)	60 credits (120 ^B total)
Bachelor of Science in Radiation Therapy	64 credits (124 ^B total)
Bachelor of Science in Radiologic Science	60 credits (120 ^B total)
Bachelor of Science in Medical Imaging	60 credits (120 ^C total)
Proton Therapy Certificate	18 credits
Computed Tomography Certificate	20 credits
Magnetic Resonance Imaging Certificate	20 credits
Positron Emission Tomography Certificate	18 credits

^A Total credits awarded for BS degree upon successful completion. 20 technical/occupational (100-200 level) credits and 36 general education (100-200 level) credits must be accepted for transfer. There must be at least one general education course from each of the following categories: Humanities, Social Sciences, Sciences, and Mathematics.

^B Total credits awarded for BS degree upon successful completion. 24 technical/occupational (100-200 level) credits and 36 general education (100-200 level) credits must be accepted for transfer. There must be at least one general education course from each of the following categories: Humanities, Social Sciences, Sciences, and Mathematics.

^C Total credits awarded for BS degree upon successful completion. 30 technical/occupational (100-200 level) credits and 30 general education (100-200 level) credits must be accepted for transfer. There must be at least one general education course from each of the following categories: Humanities, Social Sciences, Sciences, and Mathematics.

Average Class Size

Average class size at John Patrick University of Health and Applied Sciences is 15-20 which keep the classes small and intensive. The maximum number of students in a typical classroom or lab is 40.

ADMISSION POLICIES

A person's academic ability and potential for success at John Patrick University of Health and Applied Sciences are the most important factors in the school's admission decision. Full consideration is given to the applicant's academic achievement and aptitude, personal experiences, and motivation. The School does not discriminate on the basis of such factors as national or ethnic origin, race, color, age, gender, sexual orientation, marital status, religion, disability or veteran status.

Students that have submitted an application will receive full acceptance, no acceptance, or conditional acceptance. Conditional acceptance suggests the applicant will receive full acceptance once pre-requisites and/or graduate record examination scores are submitted. Students that have received conditional acceptance to the Medical Physics Program may receive full acceptance to the Master of Medical Dosimetry Program.

The accepted applicant for Masters level programs must possess a Bachelor's Degree from an accredited or approved institution or equivalent. Bachelor's Degree equivalency may be recognized if the student can show acceptable undergraduate college work through transcripts and extensive professional level, work experience, or more than four years of acceptable undergraduate college work.

International students (and U.S. students with international transcripts) must have a course by course evaluation of international transcripts by an approved private company, such as World Education Services, or other National Association of Credential Evaluation Services (NACES) to determine the equivalency.

Applicants whose first language is not English or language of the instruction is not English must submit English proficiency examination scores. The minimum TOEFL (Test of English as a Foreign Language) score required is 550 (paper-based), 213 (computer-based) or 79 (internet-based). The minimum IELTS (International English Language Testing System) score required is 6.5. The minimum PTE Academic score required is 53.

Admission Procedure for Undergraduate Programs

John Patrick University of Health and Applied Sciences provides an application through their website. Applications can also be provided via email or fax upon request.

- 1) After the application and all required materials are received, the applicant will be notified within 7-10 days. Required Materials include:
 - ✓ Letters of reference
 - ✓ Official transcripts from all higher education institutions
 - ✓ Personal statement letter
 - ✓ Copies of TOEFL or IELTS scores, if applicable
 - ✓ Online application
- 2) After the applicant is notified, interviews will be scheduled with the President and 2 Faculty Members via phone conference
- 3) Course selection, registration, and financing will take place during advising and registration sessions.
- 4) For degree programs requiring a clinical internship, preference is given to applicants who have a written commitment from a clinical site.

Admission Requirements and Recommendations

UNDERGRADUATE PROGRAMS

Program Application Requirements

- ✓ Three letters of reference
- ✓ Curriculum Vitae/Résumé
- ✓ Official transcripts from all higher education institutions
- ✓ Personal statement letter
- ✓ Copies of TOEFL or IELTS scores, if applicable
- ✓ Online application and \$35.00 non-refundable application fee

Bachelor of Science Program Admission Requirements

- ✓ Associate's Degree (Associate of Science degree preferred)
 - 24 technical/occupational (100-200 level) credits required to be accepted for transfer.
 - Medical Dosimetry program non-CMD route only: 20 technical/occupational (100-200 level) credits required to be accepted for transfer.
 - Medical Imaging program only: 30 technical/occupational (100-200 level) credits required to be accepted for transfer.
 - 36 General Education (100-200 level) credits required to be accepted for transfer.
 - Medical Imaging program only: 30 general education (100-200 level) credits required to be accepted for transfer.

There must be at least one general education course from each of the categories below:

- Humanities
 - Social Sciences
 - Sciences
 - Mathematics
- ✓ A GPA of 2.0 (on a 4.0 scale) for the last degree earned. A 3.0 or higher (on a 4.0 scale) is preferred.
 - ✓ If applicant's first language, or language of instruction, is not English, English proficiency examination scores are required. Test of English as a Foreign Language (TOEFL) minimum scores are 550 (paper-based) or 213 (computer-based) or 79

(internet-based). The International English Language Testing System (IELTS) minimum score required is 6.5. The PTE Academic minimum score required is 53

- ✓ Interview with JPU representative
- ✓ Personal statement
- ✓ Letters of References

Associate of Science Program Admission Requirements

- ✓ High School Diploma with a GPA of 2.0 (on a 4.0 scale). A 3.0 or higher (on a 4.0 scale) is preferred
- ✓ If applicant's first language, or language of instruction, is not English, English proficiency examination scores are required. Test of English as a Foreign Language (TOEFL) minimum scores are 550 (paper-based) or 213 (computer-based) or 79 (internet-based). The International English Language Testing System (IELTS) minimum score required is 6.5. The PTE Academic minimum score required is 53
- ✓ Interview with JPU representative
- ✓ Personal statement
- ✓ 3 Letters of References

Proton Therapy Certificate Program Admission Requirements

- ✓ Must hold a current credential from The American Registry of Radiologic Technologists (ARRT) in Radiation Therapy
- ✓ If applicant's first language, or language of instruction, is not English, English proficiency examination scores are required. Test of English as a Foreign Language (TOEFL) minimum scores are 550 (paper-based) or 213 (computer-based) or 79 (internet-based). The International English Language Testing System (IELTS) minimum score required is 6.5. The PTE Academic minimum score required is 53
- ✓ Interview with JPU representative
- ✓ Personal statement

CT, MRI, and PET Certificate Program Admission Requirements

- ✓ Must possess one of the following
 - Holds a credential from The American Registry of Radiologic Technologists (ARRT) in Radiography, Radiation Therapy, or Nuclear Medicine
 - Holds a credential from the Nuclear Medicine Technology Certification Board (NMTCB)
- ✓ If applicant's first language, or language of instruction, is not English, English proficiency examination scores are required. Test of English as a Foreign Language (TOEFL) minimum scores are 550 (paper-based) or 213 (computer-based) or 79 (internet-based). The International English Language Testing System (IELTS) minimum score required is 6.5. The PTE Academic minimum score required is 53
- ✓ Interview with JPU representative
- ✓ Personal statement

Program requirements are part of the application process and must be completed prior to the start of the program. Recommendations are required in order to complete the program. They are not required prior to acceptance or program study.

Credit for Experiential Learning

John Patrick University of Health and Applied Sciences does not grant any credit for prior experiential learning.

Transfer of Credit

John Patrick University of Health and Applied Sciences may accept any course work successfully completed at other approved colleges and universities, if it comparably meets John Patrick University of Health and Applied Sciences course work requirements. A student may not transfer more than 25% of program classes. Classes must have a “C” or higher to be transferred. Graduate level classes below a “B” are not eligible for transfer to an JPU graduate program. JPU reserves the right to refuse credit transfers. **Transfer credits are not included in the cumulative GPA or cumulative program GPA calculation.**

Should a student wish to transfer credit from John Patrick University of Health and Applied Sciences to another college or university, the student is advised to first contact the academic institution to which the transfer of credit is sought. All colleges and universities have their own policy regarding acceptances of transfer of credit.

Process for Transfer of Credit

All students applying for admission to John Patrick University of Health and Applied Sciences must arrange to have original transcripts sent to John Patrick University of Health and Applied Sciences directly from the issuing institution. These arrangements are to be made at the time of the student's application. International students (and U.S. students with international transcripts) must provide a course-by-course evaluation of international transcripts by a provider approved by the National Association of Credential Evaluation Services (NACES) such as World Education Services.

Upon receipt of these transcripts of college level course/degree completions, the President, Vice President of Academic Affairs and Academic Dean, or relevant Program Director will review the documents and make the assessment of the transferability of each course appearing on the transcripts. JPU may request additional information such as a course description or syllabus. Students desiring to request transfer credits must fill out a Transfer Credit Request Form and provide the course description. Additional supporting documentation may be requested from JPU in order to complete the review, such as the syllabus. Students can request the Transfer Credit Request Form by emailing info@Rtuvt.edu.

The President, Vice President of Academic Affairs and Academic Dean, or relevant Program Director will review the request and make a decision. The Director of Administrative Services will notify the student of the decision within 30 days.

Grading System for undergraduate courses

Grade and Credit Point System

The following grades are considered in computing semester or cumulative grade averages. Course hours with a grade of “F” are counted when computing grade point averages but do not count toward the earned hours required for degrees.

A	(4.0 Pts)	Excellent
B	(3.0 Pts)	Good
C	(2.0 Pts)	Satisfactory
D	(0 Pts)	Failing
F	(0 Pts)	Failing

P	(4.0 Pts)	Passed (Pass/Fail Option)
WF	(0 Pts)	Withdrawn – Failing

Repeated Courses

Repeated courses are counted in the John Patrick University of Health and Applied Sciences grade point average and may also be counted in the student's primary program GPA (Student Program GPA), depending on the policies of the student's program. Students must replace a failed grade or a grade not meeting the minimum grade requirement. When students repeat a failed grade, the original grade will be replaced by the new grade and will be calculated in the cumulative GPA. Both grades are counted as attempted credits and calculated in SAP assessment.

The following grades are not considered in computing semester or cumulative grade point averages:

AU	Audit - No Credit
I	Incomplete/Pending
T	Denotes credits transferred from another Institution
W	Withdrawn
R	Repeated Course

Abbreviations and Symbols

EHR	Credit hours earned
QPTS	Quality Points Earned
GPA	Grade point average (computed by dividing QPts by EHR)

Credit Types

Regular Credit – All John Patrick University of Health and Applied Sciences credit is reported in terms of semester hours, whether earned during a 16-week semester or a summer session.

ACADEMIC POLICIES

Student Academic Progress

Details regarding the academic progress of each student are documented by the institution. All students must maintain minimum standards of satisfactory academic progress as measured by the student's cumulative grade point average. The minimum acceptable GPA (grade point average) for undergraduate students is 2.0. Should an individual student's grade point average fall below 2.0, the student will be placed on academic probation. During the ensuing enrollment sessions the student will receive remedial guidance from the President, Program Director or Vice President of Academic Affairs and Academic Dean, and additional assignments or projects may be required to assure that the student is benefiting from the instruction. The early identification of those students who are experiencing academic difficulty will assist the institution in providing the additional guidance that may provide a remedy. Students who do not meet minimum standards of satisfactory academic progress or demonstrate barriers to learning including social, emotional, and physical health deficits may be placed on Academic and/or Administrative Hold. This status is meant to work with the student and help them address their barriers to learning through time, advising, or other means.

Standards of Satisfactory Academic Progress Policy and Procedures

John Patrick University of Health and Applied Sciences has the following Standards of Satisfactory Academic Progress (SAP) Policy for all students. These standards require that a student make progress toward an undergraduate or graduate degree during all periods of enrollment.

Minimum Standards of Satisfactory Academic Progress

- ✓ Maintain required minimum cumulative Grade Point Average (GPA) or higher (a qualitative measure). The minimum acceptable cumulative GPA for undergraduate students is 2.0. The minimum acceptable cumulative GPA for graduate students is 3.0.
- ✓ Successfully complete at least 67% of the cumulative attempted credit hours (a quantitative measure) and
- ✓ Make positive progress toward completion of a program of study within 150% of the published program length.
- ✓ Unsuccessfully completed courses must be completed successfully during the second attempt.

Statuses of Academic Progress

- 1) Satisfactory – Student is meeting the minimum academic standards or has no academic history. Fully Eligible for financial aid.
- 2) Financial Aid Warning – Student did not meet minimum standards for cumulative GPA and/or 67% completion rate in the previous evaluation period (semester). Financial Aid Warning is available to students who were making progress in the previous semester, or who were in their first semester of the program. The student will receive federal financial aid during the Financial Aid Warning period (one semester) without appeal. Student will be notified in writing (1) that he/she has been placed on Financial Aid Warning and (2) what must be achieved to achieve satisfactory academic progress by the end of the period. The student must reach all minimum standards by the end of the next evaluation period.

Warning – Student did not meet minimum standards for cumulative GPA and/or 67% completion rate in the previous evaluation period. Student must reach all minimum standards by the end of the next evaluation period. This is also referred to as academic probation.

- 3) Unsatisfactory Progress – Student has had two consecutive evaluation periods below minimum standards for cumulative GPA and/or 67% completion rate. Student is Ineligible for financial aid, and may face academic probation or dismissal. Two consecutive periods below minimum will require a meeting with the Vice President of Academic affairs or other designated person with possible dismissal from the program.
- 4) Timeframe – Student has attempted at least 180 credit hours toward a Bachelor's Degree. Graduate students must earn their degree within the timelines set by the Graduate School per their graduate program. If a student exceeds these credit hour limits, they are not making progress toward a degree within the 150% federal requirement. Student is Ineligible for financial aid, and maybe dismissed from the program.

When is Academic Progress Evaluated? A student's satisfactory academic progress will be evaluated at the end of each academic semester (i.e., fall, spring, and summer semesters).

Successful completion of an undergraduate class is defined as earning a grade of A, B, C, or Pass. Unsuccessful grades are D, F, W, Fail, or Incomplete.

Successful completion of a graduate class is defined as earning a grade of A, B, or Pass. Unsuccessful grades are C, D, F, W, Fail, or Incomplete.

Transfer Students and Transfer credit hours: Students transferring to JPU are required to have all prior college transcripts evaluated for transfer credits. All credit hours accepted by JPU will be used to determine 67% completion rate and maximum timeframe of 150%.

Remedial/Repeat Courses: All remedial and repeat courses will be used in determining completion rate and timeframe. Actual letter grades are not included in the cumulative GPA.

Audited Credit Hours: Courses taken on an audit basis are not counted when determining the completion percentage or for purposes of determining your cumulative GPA.

In order to calculate your total ATTEMPTED hours IF you have courses on your transcript with a grade of "W" (Withdrawal), "F" (Fail), "FA" (Failure to Attend) or "I" (Incomplete) you will need to account for those credits in your total attempted hours per federal regulation. A minimum of 3 (three) credit hours should be counted for EACH class that was withdrawn, failed, failure to attend, or incomplete and ADD the total number to "Total Earned Credits" on your transcript in order to determine total attempted hours.

For example, student has 2 grades of "W" (6 credit hours), 1 grade of "F" (3 credit hours), 3 grades of "I" (9 credit hours), and one grade of "A" (3 credit hours) and the bottom of the transcript shows "Total Earned Credits" of 80. To calculate total attempted credits, add $(6+3+9+3)+80=101$ total attempted credit hours.

To calculate completion rate, take total EARNED credit hours and divide by total ATTEMPTED hours. For the example above: $80/101=79\%$.

"Cumulative GPA" (must meet SAP minimum GPA requirements).

If you are unable to determine your SAP status, visit or call Administrative services at 574-232-2408 for assistance.

Resolving Incomplete Grades

The school incorporates an "I" for incomplete courses within the listed academic policies above. The School's policy is that incomplete grades must be completed and a grade reported no more than five (5) semesters of active enrollment after the term the incomplete grade was earned. If the student does not resolve the incomplete grade, it becomes the responsibility of the School to assign a punitive grade of "F".

How to Re-Establish Satisfactory standing

A student must bring his/her GPA and completion rate up to the minimum standards of the required cumulative GPA, per matrix, and 67% completion rate.

Appeal Process for SAP

Mitigating Circumstances: If a student has experienced mitigating circumstances (illness, job related, family illness, change of major) during the most recent evaluation period, they may submit an Appeal. **Students are restricted to two appeals.** Appeal forms are available on the website. The appeal must explain why the student failed to make satisfactory progress and what has changed in his/her situation that will allow him/her to make satisfactory progress at the next evaluation. The student must also submit supporting documentation with the appeal form. If the appeal is approved, the student will be placed on one of two Statuses:

- 1) Probation – The student must meet minimum standards by the next evaluation period. A student cannot be on probation for two consecutive semesters.

Financial Aid Probation –The student must meet minimum standards by the next evaluation period. Probation lasts for one semester and the student may receive federal financial aid during that semester.

- 2) Financial Aid Probation with an Academic Success Plan – The student cannot be expected to improve to minimum standards in one semester. The student and JPU have agreed to a success plan to allow the student to meet minimum standards within a fixed number of evaluation periods. The student is placed on Financial Aid Probation for one semester, and will continue to receive Federal financial aid as long as he/she is meeting the requirements set forth in the academic plan. If the student fails to meet the requirements of the plan after the one semester of Financial Aid Probation, or any semester thereafter, he/she loses Federal financial aid eligibility.

Academic Success Plan – the student cannot be expected to improve to minimum standards by the next evaluation period. The student and JPU have agreed to a success plan to allow the student to meet minimum standards within a fixed number of evaluation periods. If at any time the student stops following the success plan and they are not meeting minimum standards will become Ineligible for program completion. If a student meets minimum standards at any time while on a success plan their Status will be updated to Eligible

If the appeal is not approved, the student will remain Ineligible until they meet all minimum standards. See *Re-establishing Federal Financial Aid Eligibility* below.

Timeframe Mitigating Circumstances: If a student has not completed their program of study within the 150% timeframe and there are mitigating circumstances (illness, job related, family illness, change of major), they may submit an Appeal to be on a Not Enrolled: Pending Status. If this appeal is approved, the student will be placed on the following Academic Eligibility Status:

Timeframe Academic Success Plan – The student and JPU have agreed to a success plan they must follow. The student is fully eligible, as long as they are strictly following the success plan. If at any time the student stops following the success plan, they will become Permanently Ineligible and may face dismissal from the program.

If the appeal is not approved, the student will be Ineligible for Federal Financial Aid. The student maybe withdrawn from the program. All students are limited to one Timeframe Appeal/Academic Success Plan.

Probation and dismissal actions are processed uniformly without regard to race, color, sex, religion, age, disability and national origin, as defined by law. In the event a student disagrees with the application of these standards of satisfactory academic progress standards, a written appeal may be filed with the Vice President of Academic Affairs and Academic Dean.

Re-establishing Federal Financial Aid Eligibility

A student must bring his/her GPA and completion rate up to the minimum standards of the required cumulative GPA and 67% completion rate.

Program Completion

The institution's policy on program completion is developed to insure student progress through the program in a timely manner. Students must complete the program if study within 150% of the normal program length, as defined by the institution and must meet the program objectives. Students may be listed as Not Enrolled; pending by the President or the Vice President of Academic Affairs and Academic Dean under the following conditions: student is awaiting accreditation, student has endured extraordinary personal hardship, or the student experiences delays from their clinical internship site that the student and University are unable to prevent. Students that have been granted this status are expected to maintain good communications with JPU. Program students will meet at least yearly with an JPU staff member/faculty member during boot camp to review their progress in the program. For students that require additional undergraduate courses for program completion, the program time will be adjusted based on number of credit hours needed.

Change of Program

Students desiring to change programs of study must meet with the President or Vice president of Academic Affairs and Academic Dean to complete the appropriate documentation. The new program will have different Standards of Satisfactory Academic Progress and will be discussed during this meeting.

A maximum of three program changes may be made during a student's attendance at John Patrick University of Health and Applied Sciences-VT. Program competition time may be extended due to scheduling conflicts or the additional credit hours require for the new program. Students transferring to a new program will have applicable credit attempted and earned applied to the new program based on requirements of the new program.

Multiple Majors

Students often decide to pursue more than one major because many courses are applicable to more than one program. Additional time is required to complete the required courses for a multiple major, and additional costs are incurred. Students wishing to take advantage of this opportunity must meet with the Program Director or Administrator to complete the appropriate forms. Students who choose to pursue multiple majors may utilize the course requirements in one major to fulfill the elective requirements in another. Refer to the *Timeframe Mitigating Circumstances* section above regarding SAP implications. Students with multiple majors will need to appeal Maximum Timeframe only if they will not complete the program within 150% of the credits hours for their multiple major.

Advising

Academic: Students are encouraged to seek academic counsel from the faculty members, and Administrator - not only during registration periods but also during the academic year when problems and questions arise.

Admissions: Prospective students of the college are interviewed by an Admissions Representative to make sure their career objectives can be served by the college's academic resources. Those persons whose objectives cannot be served by the programs of the college are advised to seek other educational institutions that offer programs more aligned to their fields of interest.

Employment: JPU graduate placement support begins the first semester the student enters the program. Students are informed of opportunities in the industry during boot camp weeks and encouraged to be active with early networking. JPU meets with every student during boot camp weeks and discusses employment opportunities and placement opportunities. Students have access to faculty to assist with résumé writing, résumé reviews, rehearsing interviews, and coaching. JPU faculty are actively engaged with students and connecting them with opportunities through professional associations and relationships. JPU is evaluating other mechanisms to increase the student's exposure to employers. Graduate employment is very important to JPU.

Financial Assistance: Students may seek information from Administrative Services to manage financial arrangements.

Personal: Students and potential students are welcome and encouraged to seek assistance from any member of the staff or faculty regarding professional, personal, financial, and /or admissions advising when issues arise that have a negative effect on their ability to do their best work at John Patrick University of Health and Applied Sciences. When appropriate, students are referred to outside agencies or professionals for support or assistance. Through our online program students are given access to counseling services through www.wellconnectbysrs.com. This website provides information, tools and support to address barriers to their success. Comprehensive student services are based on an individualized service. Students have access 24/7 to telephone counseling for students in crisis, assessment and students.

Student Resource Services

All students also have access to the Student Resource Services (SRS) website (www.wellconnectbysrs.com) for information, tools, and support to address barriers to their success. Comprehensive student services are based on an individualized service plan and include:

- ✓ Unlimited 24-7 telephone counseling response to any covered students in crisis, assessment and students needing additional support or identifying new needs/requests;
- ✓ Telephone counseling/life coaching (1-5 telephone counseling hours) from a licensed mental health professional;
- ✓ Individualized resource searches for all covered students, focused on issues that impede student success, including special adjustment needs by specific populations such as returning veterans;
- ✓ Telephone consultations for all covered students with an attorney or financial expert;

- ✓ Follow-up and outreach with the student until all issues are resolved sufficiently that the student can be successful in personal and school goals;
- ✓ Staff/faculty formal referral of students with intensive needs;
- ✓ Faculty consultation on any student concerns that would impede that student from being successful.

Attendance

This institution's policy on attendance is based on the premise that regular and substantive communication between the teacher and the student and, also, among students themselves, has significant value in the learning process. Our programs are structured to maximize your interaction with your instructor and peers while maintaining autonomy over your academic schedule. Therefore, each student is afforded the freedom to establish his or her schedule, within the confines of each semester and established due dates for coursework. Regular and substantive contact with the instructor/ teaching assistant and other enrolled students is a requirement that must be met. Such contact will help guide and maintain your steady progress towards the completion of assignments and courses. Such contact better assures we may more readily assist you in resolving any problematic aspects of your program. Instructors are authorized to factor the frequency and adequacy of your communications into the assignment of a grade for any given course.

Attendance at semester boot camp is mandatory for all program students. Students will be issued an incomplete if the student fails to attend boot camp.

Absences

Allowances for interruptions in "attendance" due to illness or personal emergency should be handled on a case-by-case basis between the student and instructor. Arrangements to make up work missed and return to an agreed schedule should be initiated by the student and established with the instructor. Absences may be granted for good reasons at the discretion of the University. Students are required to submit a written request for any extended. The request must include a written reason for the request and must be signed and dated by the student. An Extended Leave of Absence Request Form is available upon request through the Director of Administrative Services. A leave of absence is a withdrawal for Federal financial aid purposes, and JPU must complete a Return of Title IV calculation to determine if any unearned funds must be returned to the aid programs.

Frequent absences during a course could be grounds for dismissal. Students will be contacted and counseled before significant measures are taken. Plans will be made for make-up work should it be warranted. JPU's course management system tracks the student's activities. This student activity log is used to verify class attendance.

Academic Integrity Policy

JPU has a zero tolerance policy. Integrity is a foundational concept of professional behavior and JPU takes such matters very seriously. In general, if you have to ask if behavior would violate the integrity policy, it probably does.

JPU is committed to educate, implement, support, and enforce sound academic and professional integrity.

Collaboration Defined

- ✓ Working together on assignments and projects
- ✓ Citing literature

Cheating Defined

- ✓ Not doing the work
- ✓ Not doing the work and directly copying

If academic dishonesty is suspected, the information will be documented and brought before the President for review. The student or students will be notified that there is a suspicion of academic dishonesty and an investigation will follow. Information retrieved during the investigation process will be evaluated and the student or students involved will be informed of the result.

In the event that academic dishonesty is validated during the investigation process, the individual or individuals involved will be notified of any action JPU chooses to take.

Typically, a first offense will result in the individual or individuals receiving probationary status or dismissal.

Students with Disabilities

If you feel you have a disability and need special accommodations of any nature whatsoever, please communicate them with the Director of Administrative Services before or during the first week of classes. The Director of Administrative Services will inform faculty as needed and the faculty member will make every effort to provide reasonable accommodations to ensure that you have a fair opportunity to perform in your course work.

Copyright Infringement Policy

John Patrick University of Health and Applied Sciences recognizes the importance of copyright protection and has developed this policy to effectively combat copyright infringement through informing University IT Resource Users about the issue, sanctions for illegal actions, and options for legal file-sharing.

COPYRIGHT

Copyright is the legal protection of intellectual property. This includes, but is not limited to literary works, artistic works including drama, music, and film, multi-media, and peer-to-peer file sharing. Copyright infringement occurs when individuals exercise rights that are exclusive rights to the copyright owner. Activities that constitute copyright infringement include:

- Downloading and sharing music, videos, and games the individual does not have the rights to
- Using corporate logos without permission
- Placing and electronic copy of a standardized test without permission from the copyright owner
- Including music, scanned artwork or a scanned photo from a book on a website without attribution or permission from the copyright owner(s)
- Placing full-text articles on a website that is not password protected
- Downloading licensed software from non-authorized sites without permission of the copyright owner or license holder
- Placing a movie or a large segment of a movie available on a website without permission from the copyright owner
- Unauthorized peer-to-peer file sharing

SANCTIONS

The unauthorized distribution of copyrighted material, including peer-to-peer file sharing, may subject an individual to civil and criminal liabilities. Possible penalties for copyright infringement include:

- Payment of actual damages or statutory damages no less than \$750 and no more than \$30,000 per work.
- The court may award up to \$150,000 per work for willful infringement as well as attorney's fees and other associated costs.
- The court may also assess criminal penalties for willful infringement including up to five years in jail and up to \$250,000 per offense.

Resources for additional information include Title 17, United States Code, Sections 504 and 505 and the U.S. Copyright Office website at <http://www.copyright.gov>.

ENFORCEMENT

John Patrick University of Health and Applied Sciences makes an effort to prevent and detect copyright infringement as well as respond promptly to copyright infringement claims. John Patrick University of Health and Applied Sciences informs students, faculty, and staff of the Copyright Infringement Policy. In addition, the Appropriate Use Policy for IT Resources outlines that no resources are to be used for any illegal activity.

John Patrick University of Health and Applied Sciences will respond promptly to legitimate copyright infringement notices and operate within the requirements of the Digital Millennium Copyright Act.

John Patrick University of Health and Applied Sciences will cooperate fully with any investigation by public authorities related to copyright infringement. Students found guilty will be subject to the full extent of penalties allowed by law as well as possible suspension from their program of study.

OPTIONS FOR LEGAL FILE-SHARING

The following website provides information on online service providers that allow users to acquire copyrighted material legally such as Amazon and Pandora: <http://www.educause.edu/legalcontent>.

ANNUAL DISCLOSURE

The University feels an awareness of the issue and alternatives to prevent copyright infringement are the best ways to prevent copyright infringement. The University publishes the Appropriate Use Policy for IT Resources and the Copyright Infringement Policy to new students during the orientation process and annually on the main campus website. The University also has these policies published on the public website.

MAINTENANCE OF THE POLICY

John Patrick University of Health and Applied Sciences will periodically review this policy to evaluate its effectiveness and provide relevant and necessary information to assist in preventing copyright infringement.

Communication Policy

John Patrick University of Health and Applied Sciences reserves the right to send official communications to students via email with the expectation that students will receive and read these messages in a timely fashion. Communications may also be initiated through internal communication features of the Campus Course Management System (Pass-A-Notes, News Announcements, Message of the Day, etc.).

Students are expected to check their email (the email provided by the student for their student profile) frequently and consistently to receive University-related communications.

Students that have their email address on file for John Patrick University of Health and Applied Sciences forwarded to an alternate email address do so at their own risk. The University is not responsible for issues that may impact property or timely transmission of, or access to, email forwarded to any other email address. Problems that arise from this will not absolve the student of their responsibility to be aware of and comply with information provided by John Patrick University of Health and Applied Sciences via email or internal communication features of the Campus Course Management System.

Please be advised that email is not considered to be a secure medium for sensitive and confidential information. Students may contact the Director of Administrative Services at (574) 232-2408 for advice on the most secure way to send potentially sensitive and confidential information to John Patrick University of Health and Applied Sciences.

Appropriate Use Policy for IT Resources

John Patrick University of Health and Applied Sciences provides an information technology (IT) environment that includes access to an online campus with secure username/password access for faculty, staff, and students, computing services, wireless internet, treatment planning software, remote access to treatment planning software on campus, online databases, and other course resources. These resources (“IT resources” or “resources”) are intended to support the operations of the University.

APPLICABILITY

This policy applies to all individuals using IT resources regardless of whether they are accessed from the campus or from remote locations.

APPROPRIATE USE

IT resources are provided for University-related purposes including support for instruction, research, administrative functions, and student use for the purpose of facilitating the successful completion of coursework. Use of the resources should be limited to these purposes, including incidental personal use.

Incidental personal use must not interfere with the intended use of the IT resources or include any illegal activity. Incidental personal use by staff members must not interfere with the fulfillment of job responsibilities or disrupt the work environment.

USER RESPONSIBILITIES

Users are responsible for being aware of any University policies or regulations that govern the use of IT resources. Users must comply with all federal and state laws and University policies.

Users may not engage in unauthorized use of resources, regardless of whether the resource is protected against unauthorized use.

Users may not use resources to engage in partisan political activities that suggest University endorsement or support.

Users are expected to respect the privacy of other users, even if the devices and systems by which other users access IT resources are not securely protected.

Unauthorized use by a User of another User's personal identity or login credentials is prohibited.

Users may not use any IT resource in a manner which interferes unreasonably with the activities of the University or other Users.

IT resources may not be used to fund raise, advertise, solicit, or operate a business for commercial purposes without approval from the University in advance.

Pornography and sexually explicit content is prohibited unless such use is for a scholarly or medical purpose. Users may not use IT resources to store, display, or disseminate pornographic or sexually explicit content.

Users are expected to engage in safe computing practices such as setting appropriate restrictions on accounts, setting strong passwords, and keeping passwords secure.

ENFORCEMENT

Use of IT resources is a privilege and not a right. User's access to IT resources may be suspended or terminated if the user violates this policy.

Users who violate this policy, other University policies, or external laws may be subject to disciplinary action. The University may report certain uses of IT resources to law enforcement agencies, if applicable.

Users who have been suspended or removed from access to IT resources may appeal the decision by following the Grievance Policy process outlined in the Academic Catalog.

SECURITY

The University may, without further notice to Users, take any action it deems necessary to protect the interests of the University and to maintain the stability, security, and operational effectiveness of IT resources. This may include, but is not limited to, scanning stored data, network traffic, usage patterns, and other uses of IT resources.

PRIVACY

Responsible parties of the IT environment will perform management tasks in a manner that is respectful to individual Users. This includes, but is not limited to, monitoring and routine system maintenance including the backup of data, monitoring of general use patterns, and other usage activities.

The University may use security tools and network and systems monitoring hardware and software without notice.

The University may be compelled to disclose the electronic records of Users in response to various legal requirements such as subpoenas, court orders, discovery requests for the purpose of litigation, and search warrants. Request for public records may be granted providing they fall within rights established by the Freedom of Information Act.

The University may disclose the results of any general or individual monitoring or inspection of any User's records to the appropriate University authority or law enforcement agency. The University may use such records during disciplinary proceedings.

Upon receiving written approval from the President of the University, the University may access or permit access to the contents of communications or electronically stored information:

- When required by law.
- If the University determines that access to the information in a specific User's account is essential to the operational needs of the University and the employee is unavailable or unwilling to provide access to the information.
- If the University receives a written request for access to information from an immediate family member or the lawful representative of a deceased or incapacitated User.
- If personally identifiable information about Users must be disclosed without their consent to protect the health and well-being of students, employees, or other persons in emergency situations, to prevent imminent loss or damage, or to prosecute or defend its legal actions and rights.

Called to Active Duty Policy

Students who serve in the U.S. armed forces may be called to duty with little notice, which may affect your ability to attend classes. These active duty reasons include:

- ✓ Deployment (not including basic training)
- ✓ Specialized training
- ✓ Disaster relief efforts

In a situation where your attendance at John Patrick University of Health and Applied Sciences is interrupted for one of these reasons, notify the Director of Administrative Services and provide a copy of your orders. One of the following options will be available:

Withdraw from All Classes

Students who withdraw from all classes will receive a 100% refund on tuition and fees regardless of the date the withdrawal occurs within the semester. Students who began classes for the semester and completed at least one week will have a W appear on their transcript. For this policy to apply, the student must submit the withdrawal request and a copy of their orders no later than seven (7) days after receiving their orders.

Withdraw from Some Classes

Work with your Instructor or Instructors to see if this is an option.

For students who choose this option, there will be a 100% refund on tuition and fees for the classes the student chooses to withdraw from regardless of the date the withdrawal occurs within the semester. Students who began classes for the semester and completed at least one week will have a W appear on their transcript. For this policy to apply, the student must submit the withdrawal request and a copy of their orders no later than seven (7) days after receiving their orders.

Request an Incomplete Grade

Complete the Request for an Incomplete Grade Form with the permission of your Instructor(s). The student will have one calendar year from the date the incomplete grade request is approved to complete the required coursework.

Request for Incomplete Grade Form (link to pdf)

Receive a Grade Based on Work Completed

With permission from your Instructor(s), you may choose to receive a grade for the course based on work you have completed up to the date of the request.

Grievance Policy

First Step-Anyone with a grievance or complaint may request an individual conference with the instructor or staff member to discuss the matter.

Second Step-If a satisfactory resolution to the problem is not reached, the aggrieved party should seek guidance from the Director.

Third Step-If the grievance is not resolved within 5 days of the incident, the aggrieved party must present to the Director, in writing, all facts of the grievance.

Within 48 hours, upon receipt of the written information, the Director will schedule a Grievance Committee hearing. The time of the meeting will be communicated in writing to all parties. The committee will consist of the Vice President of Academic Affairs, Academic Dean and two staff or faculty members not involved with the incident in question.

All Persons or their representatives involved with the incident must be present via teleconference at the time of the hearing. All parties involved will be given the opportunity to discuss the grievance. The Grievance Committee will excuse all parties involved in the grievance and immediately review and conclude the case. The decision of the committee will be communicated to those involved in the incident within 48 hours. The committee decision will be final.

Accrediting Commission of Career Schools and Colleges (ACCSC) Student Complaint Procedure

Schools accredited by the Accrediting Commission of Career Schools and Colleges must have a procedure and operational plan for handling student complaints. If a student does not feel that the school has adequately addressed a complaint or concern, the student may consider contacting the Accrediting Commission. All complaints reviewed by the Commission must be in written form and should grant permission for the Commission to forward a copy of the complaint to the school for a response. This can be accomplished by filing the ACCSC Complaint Form. The complainant(s) will be kept informed as to the status of the complaint as well as the final resolution by the Commission. Please direct all inquiries to:

Accrediting Commission of Career Schools & Colleges
2101 Wilson Boulevard, Suite 302
Arlington, VA 22201
(703) 247-4212
www.accsc.org

A copy of the ACCSC Complaint Form is available at the school and may be obtained by contacting (name/position) or online at www.accsc.org.

The following is an outline of the Commission's procedures for reviewing complaints: (For further information on the Commission's procedures please refer to *Section VI, Rules of Process and Procedure, Standards of Accreditation*.)

1. All complaints that are reviewed by the Commission must be in written form and should include permission from the complainant for ACCSC to forward a copy of the complaint to the school. If permission is not included in the complaint letter, the Commission will forward a copy of the ACCSC Complaint Form requesting the complainant's permission. If a complainant does not submit a signed complaint form, the Commission, at its discretion, may not be able to process the complaint.

Permission is not necessary for advertising complaints since advertising is considered public information.

2. The Commission will conduct an initial review of the complaint to determine whether the complaint sets forth information or allegations that reasonably suggest that a school may not be in compliance with ACCSC standards or requirements.
 - a. If additional information or clarification is required, the Commission will send a request to the complainant. If the requested information is not received within 30 days, the complaint may be considered abandoned and not investigated by ACCSC.
 - b. If the Commission determines after the initial review of the complaint that the information or allegations do not reasonably suggest that a school may not be in compliance with ACCSC standards or requirements, the complaint may be considered closed and not investigated by ACCSC.
 - c. If the Commission determines after the initial review of the complaint that the information or allegations reasonably suggest that a school may not be in compliance with ACCSC standards or requirements, the Commission will forward the complaint to the school named in the complaint and will summarize the allegations, identify the ACCSC standards or requirements that the school allegedly violated, and allow the school an opportunity to respond. In the event that there is a pending on-site evaluation at the school, the on-site evaluation team and the school may be made aware of the complaint at any stage in this process. In all instances, the Commission will take the school's response to the complaint into consideration prior to rendering a decision.
3. In cases of advertising violations, the Commission will forward a copy of the advertisement to the school, citing the standard that may have been violated and requesting a response before a specific date.
4. If a news article or media broadcast carries a negative report on an ACCSC accredited school, the school is requested to respond to the statement(s) on or before a specific date.
5. The school will have an opportunity to submit a response to the complaint. The Commission will review the complaint and the response for compliance with accrediting standards and requirements.
6. If the Commission concludes that the allegations may establish a violation of ACCSC standards or requirements, the Commission will take appropriate action to require the school to achieve compliance as required and will send a letter to the complainant (and a copy to the school). A record of this file is maintained at the Commission's office.
7. If the Commission concludes that the allegations do not establish a violation of standards or requirements, The Commission will consider the complaint closed.

8. In all instances, the Commission will send a letter to the complainant and the school regarding the final disposition of the complaint, and a record of the complaint will be kept on file at the Commission's office.

Joint Review Committee on Education in Radiologic Technology (JRCERT) Complaint Process

Any student who wishes to pursue allegations of non-compliance with JRCERT Standards may do so by following the JRCERT Reporting Process located at www.jrcert.org/students/process-for-reporting-allegations/report-an-allegation. Before submitting an allegation, the individual must first attempt to resolve the complaint directly with JPU by following JPU's Grievance Policy and Procedure. The Grievance Policy and Procedure is provided in this Academic Catalog.

Important Notes for Reporting Allegations Against a Program

1. The JRCERT cannot advocate on behalf of any student(s). An investigation into allegations of non-compliance addresses only the program's compliance with accreditation standards and will not affect the status of any individual student.
2. The investigation process may take several months.
3. The JRCERT will not divulge the identity of any complainant(s) unless required to do so through legal process.

Process

Before submitting allegations, the individual must first attempt to resolve the complaint directly with program/institution officials by following the due process or grievance procedures provided by the program/institution. Each program/institution is required to publish its internal complaint procedure in an informational document such as a catalog or student handbook. (Standard One, Objective 1.6)

If the individual is unable to resolve the complaint with program/institution officials or believes that the concerns have not been properly addressed, he or she may submit allegations of non-compliance to the JRCERT:

Chief Executive Officer
Joint Review Committee on Education in Radiologic Technology
20 North Wacker Drive, Suite 2850
Chicago, IL 60606-3182
Ph: (312) 704-5300
Fax: (312) 704-5304
e-mail: mail@jrcert.org

The Allegations Reporting Form is located at www.jrcert.org/students/process-for-reporting-allegations/report-an-allegation and must be completed and sent to the above address with required supporting materials. All submitted documentation must be legible. Forms submitted without a signature or the required supporting material will not be considered. If a complainant fails to submit appropriate materials as requested, the complaint will be closed.

The Higher Education Opportunities Act of 2008, as amended, provides that a student, graduate, faculty or any other individual who believes he or she has been aggrieved by an educational program or institution has the right to submit documented allegation(s) to the agency accrediting the institution or program.

The JRCERT, recognized by the United States Department of Education for the accreditation of radiography, radiation therapy, magnetic resonance, and medical dosimetry educational programs investigates allegation(s) submitted, in writing, signed by any individual with reason to believe that an accredited program has acted contrary to the relevant accreditation standards or that conditions at the program appear to jeopardize the quality of instruction or the general welfare of its students.

Indiana Board for Proprietary Education Complaint Process

Complaints involving institutions under the Board for Proprietary Education's jurisdiction are handled through the Indiana Commission for Higher Education.

The Commission for Higher Education is responsible for responding to formal complaints against public, independent non-profit and proprietary institutions of higher education in Indiana. While the Commission has limited authority over colleges and universities, and cannot offer legal advice or initiate civil court cases, Commission staff will review submitted complaints and work with student complainants and institutions.

- **Discrimination:** If a student believes that an institution has acted in a discriminatory manner, he/she may wish to contact the Indiana Civil Rights Commission (ICRC) using the ICRC's complaint form located at www.in.gov/che/2744.htm or call them at (800) 628-2909.
- **Financial Aid:** If a student has been denied state of Indiana financial aid, they may file an appeal form located at www.in.gov/che/2744.htm or direct any questions to the Student Support Center by calling 1 (888) 528-4719.
- **Law Violations:** If a student believes that a college or university has violated state or federal law, he/she may wish to contact the Office of the Indiana Attorney General at (317) 232-6201 or Constituent@atg.in.gov.

After filing a complaint with the Attorney General's Office or ICRC without resolution, the student may still hire an attorney and adjudicate the complaint through the court system.

OTHER COMPLAINTS

Within two years of the incident about which the student is complaining, he/she must contact the Commission for Higher Education using the complaint form located at www.in.gov/che/2744.htm.

Please note that the Commission cannot, by law, review complaints related to course grades, academic sanctions or discipline/conduct matters. In other areas, such as transferring credits between public institutions, the Commission has greater statutory authority.

Please follow the steps outlined below to submit a complaint:

STEP 1

If a student has concerns related to classroom situations or administrative actions, he/she should contact the faculty or staff member(s) with whom he/she has a conflict. It may be possible to resolve the concerns without the need for formal institutional action. However, if the student's complaint is not resolved satisfactorily, or if the complaint cannot be resolved by contacting the faculty or staff member(s), the student should proceed to STEP 2.

STEP 2

The student should file a complaint through his/her institution of higher education's established complaint process. Information on the process can usually be found in the institution's Academic Catalog, Student Handbook, or website. If the student is unable to resolve the complaint in this manner, he/she should proceed to STEP 3.

STEP 3

After receiving a complaint through our complaint form, Commission staff will review the submitted materials and contact the submitter for any required additional information or clarifications. The Commission will then send a copy of the complaint to the institution against which the complaint has been filed and ask for a response within three weeks. After receiving the college or university's response, Commission staff will determine whether the institution's student complaint process has been followed and exhausted and what additional steps or follow-up may be taken. The Commission will inform both parties involved in the complaint.

If you have additional questions about the complaint process, or want to clarify that your individual complaint is reviewable by the Commission, please feel free to contact complaints@che.in.gov.

Anti-Hazing and Bullying Policy

JPU is dedicated to promoting a safe and healthy campus environment for its students, faculty, staff and visitors. In addition, JPU is committed to promoting an environment that fosters respect for the dignity and rights of all its community members. As such, the University will not tolerate hazing activities or bullying by any individuals, groups, or recognized student organizations.

Hazing and bullying poses substantial risks to the safety and well-being of individual students and the University community. As such, violations of this policy will result in referral to the Office of Administration and possible disciplinary action which may include, but not be limited to, any or all of the following: suspension or expulsion from the University, loss of University recognition and privileges, referral to law enforcement, inability to participate in educational programs, and other educational or remedial action appropriate to the circumstances.

Sexual Harassment Policy

In an effort to provide a safe and productive educational and working environment for students, faculty, and staff, John Patrick University of Health and Applied Sciences (JPU) has adopted the following policy to promote an environment free of sex and gender discrimination, sexual harassment, sexual assault, sexual misconduct, interpersonal violence (including domestic violence and dating violence), and stalking. Gender discrimination includes discrimination on the basis of gender orientation, gender identity, or gender expression.

Policy Statement

JPU prohibits discrimination on the basis of sex and gender and prohibits sexual harassment, sexual assault, sexual misconduct, interpersonal violence, stalking, physical abuse, threats of violence, physical assault, or any form of sexual violence. These behaviors are hereafter referred to as prohibited conduct. Individuals who participate or attempt to participate in prohibited conduct are subject to disciplinary action by JPU, regardless of any action that may be taken by civil or criminal authorities.

JPU strongly encourages students, faculty, and staff to promptly report incidents of prohibited conduct to the University, as well as appropriate local or state authorities. University leadership is required to promptly report incidents of prohibited conduct. JPU will respond to all reports of prohibited conduct. JPU leadership will conduct a prompt and impartial investigation of all reported incidents of prohibited conduct in an effort to determine a resolution. The burden of proof is met during an investigation of prohibited conduct if the incident is more likely to have occurred than not.

Scope

This policy applies to all JPU staff, faculty, students, graduates, visitors, applicants for admission, applicants for employment, and third party servicers and affiliates of the University. JPU reserves the right to investigate any incident reported, whether it occurs on campus, or off-campus during any official function.

Reporting a Violation

JPU encourages any individual who has experienced prohibited conduct or witnessed an occurrence of prohibited conduct to promptly report the incident to the Director of Administrative Services at bdatema@Rtuvt.edu or by calling 574-232-2000.

Individuals who wish to report an incident anonymously are encouraged to use the following hotline or website hosted by a third party hotline provider, EthicsPoint:

Hotline: 855-673-1151

Website: www.JPU.ethicspoint.com

The information you provide will be sent to JPU through EthicsPoint on a completely confidential and anonymous basis if you should choose.

EthicsPoint is NOT a 911 or Emergency Service. Do not use this site to report events presenting an immediate threat to life or property. Reports submitted through this service may not receive an immediate response. If you require emergency assistance, please call 911 or contact your local authorities.

Individuals may contact SBPD (South Bend Police Department) whenever they witness criminal activity or feel threatened by potential criminal activity, including sexual offenses while on or near campus. Observations ranging from crimes in progress to suspicious behavior can and should be reported to SBPD. You may either contact SBPD at 911 for emergencies or at 574-235-9201.

In case of an emergency you may dial 911 from any phone on campus. Simply select a line and dial 9-1-1. There is no need to dial 9 first.

In case of a non-emergency you may dial 574-235-9201 to reach the desk sergeant where your call will be directed appropriately. JPU strongly encourages reporting of serious and continuing occurrences of crimes or threats to the South Bend Police Department.

JPU strongly encourages any student or employee who is a victim or witness of a violent crime to report the crime to law enforcement as soon as possible.

After authorities have been contacted and there is not eminent danger, please contact Director of Administrative Services at 574-232-2000, bdatemala@Rtuvt.edu.

JPU does not tolerate retaliation against a person who reports prohibited conduct, assists or encourages someone to report a violation, or participates in any manner in an investigation of prohibited conduct. Retaliation may include, but is not limited to threats, intimidation, and/or adverse actions related to employment or education.

Support Services

Refer to the Annual Security Report and Fire Safety Report updated annually for complete information on definitions, safety programs and awareness, and support services available.

Students are also encouraged to take advantage of counseling and support services provided by WellConnect. Counseling services are available 24/7 by calling 866-640-4777 or visiting www.studentlifetools.com.

Investigation and Disciplinary Process

When a report of prohibited conduct is received, JPU leadership will promptly respond and investigate the report in a fair and impartial manner. If the individual or individuals who report an incident choose not to participate in the investigation, the University may pursue the report without their participation.

The purpose of the investigation is to gather and interpret evidence in an effort to address the complaint and take corrective action, if necessary. The burden of proof in an investigation is met when it is more likely than not that the reported incident occurred and the incident is classified as prohibited conduct under this policy.

Interference with an investigation is strictly prohibited and any individual who knowingly and intentionally interferes with an investigation may receive disciplinary action including dismissal or separation from JPU.

JPU leadership will attempt to complete any investigation as soon as reasonably possible. Ideally, the investigation and any resulting sanctions or actions will be concluded within four weeks of the date the incident was reported. Due to the nature of a report and parties involved, it may be necessary for JPU leadership to take preliminary action while the incident is being investigated.

Possible outcomes of an investigation could be:

- Finding that the burden of proof cannot be met
- Referral to the appropriate authorities for correction action
- Corrective action provided by the University
- Possible termination of University staff/faculty
- Possible probation, suspension, or dismissal of the student or students

Education and Prevention

JPU promotes prevention and security awareness through the Annual Security Report and Fire Safety Report. Bystander intervention can also be a powerful tool in preventing prohibited conduct. JPU is committed to nurturing a culture of accountability among all students, staff, faculty, and third party affiliates to prevent prohibited conduct.

Pregnancy Policy

Students should understand that a pregnancy during the AS to BS Medical Dosimetry program may have an impact on their education and possibly upon the timing of graduation. Two important factors are involved.

1. Courses are only offered at select times each year and time missed for pregnancy and/or delivery will likely necessitate make up work or perhaps delay of up to a year to maintain the proper sequence of courses, depending on the timing and amount of time missed.
2. There are potential risks to an embryo or fetus secondary to radiation exposure that may require advising and alteration of the clinical education experience.

The following policy has been developed to guide the program and its students in the event of a student pregnancy.

- A. Female students are asked to read The U. S. Nuclear Regulatory Commission Regulatory Guide 8.13 regarding [“Possible Health Risks to Children of Women Who are Exposed to Radiation During Pregnancy”](http://www.nrc.gov/regs/regguide/8.13.pdf) as well as the pregnancy policy and complete and return the associated form. This document can be found at: <http://pbadupws.nrc.gov/docs/ML0037/ML003739505.pdf>.
- B. All students will be made aware of risks and hazards of prenatal radiation exposure during coursework at JPU and upon orientation to the clinical internship.
- C. A student who is pregnant, or suspects that she may be, has the option to voluntarily declare that condition to program officials.
 - a. If the student decides to declare the pregnancy it shall be done in writing to the Program Director and/or the Clinical Supervisor of her internship site. The notification shall also include the expected date of delivery.
 - b. A student may reverse their pregnancy declaration at any time. This option is voluntary and the reversal must be provided in writing to the Program Director and/or the Clinical Supervisor of her internship site.
 - c. The program will comply with student confidentiality requests as much as possible.
- D. If a student chooses to declare a pregnancy, an advising session will be set up with the radiation safety officer at the student’s clinical internship site to review radiation exposure risks and any additional monitoring practices which may be initiated.
- E. A declared pregnant student may choose one of the options below (or may choose to change to a different option at a later time if desired, with written notice):
 - a. Take a leave of absence from the program. (See policy for leave of absence.) Should the declared pregnant student decide to leave the program during pregnancy and delivery, tuition will be refunded according to the Tuition Refund Policy. In this circumstance the student would be readmitted to the program at the first available opening after delivery.
 - b. Stay in the program, but make modifications in her clinical rotation schedules to reduce the chance of exposure to the fetus.

- i. For example, she will not participate in site specific rotations as recommended by the Radiation Safety Officer during the time of the pregnancy.
Competency and experience in all required areas will be made up following delivery. This could delay graduation beyond the originally expected date.
- c. Stay in the program and/or internship during pregnancy and continue the program without modification of learning activities or clinical rotations. If she decides to do this, she does so in full knowledge of the potential hazard of embryo/fetal radiation exposure.
 - i. It is recommended that the student consult their personal physician should they choose this option. The student must also indicate, in writing her intention to continue the program without modification. A copy of this document will be kept in the student's file.

Should delivery occur during clinical internship, all course work and clinical time must be completed before the student is eligible for graduation.

Student Radiation Safety Policy:

- A. Students entering the clinical setting for their internship must receive orientation to radiation safety practices and requirements by the Radiation Safety Officer.
- B. A radiation monitoring badge must be worn by the student at all time while in the department. JPU assigns a dosimeter to each student prior to entering their clinical setting.
- C. Students assisting in the simulator and treatment units must never be in the room during exposure to treatments
- D. Students working in brachytherapy must remember and put to use techniques of time, distance, and shielding.
- E. Radiation exposure levels will be monitored by the University RSO annually. If a student's radiation exposure reading exceeds (30 mrem) on a single report, the program director must be informed immediately. The RSO and program director will investigate the reason for the reading and determine an action plan within 10 days to ensure that the student follows ALARA principles.
- F. If the student exceeds the trigger dose limit (30 mrem) on any personal monitoring report, the student must be removed from the clinical setting and counseled immediately by the University RSO on how to avoid further exposure.
- G. Notification: Students in the clinical setting have access to their readings at any time through a secure username and password. Students receive notifications monthly telling them to review their reading or contact the clinical coordinator. Correspondence to students monthly also includes informing them of the trigger dose of 30 mrem and the procedure to follow if their reading exceeds the trigger dose on a single reading. Annual reports reviewed by the University RSO are provided to the student within 30 school days after being reviewed. Students receive the report through their University student account through a secured username and password. No personal information will be visible to individuals other than the one named on the report.

Student Clinical Compensation and Hours Requirement Policy

Students entering the clinical setting for their internship are only required to work twenty-four (24) hours per week and for no more than ten (10) hours per day when enrolled in 16 credits.

Medical Physics Program: The minimum required hours for the Clinical Internship is one hundred eighty hours (180).

Medical Dosimetry Programs: The minimum required hours for the Clinical Internship is seven hundred twenty hours (720). For students who enrolled in their program of study prior to January 4, 2016, the minimum required hours for the Clinical Internship is one hundred eighty hours (180). The minimum required hours for the Clinical Internship is one hundred eighty hours (180) for Certified Medical Dosimetrists entering the program.

AS in Radiologic Technology: The minimum required hours for the Clinical Practice is five hundred forty (540) hours.

PET Certificate: The minimum required hours for the Clinical Practice is seven hundred hours (700).

MRI, CT, and Proton Therapy Certificates: The minimum required hours for the Clinical Practice is two hundred forty hours (240).

The student is entitled to no compensation while performing competencies for the clinical internship. Any extra hours the student chooses to spend are purely voluntary and the student is entitled to no compensation or extra credit of any kind.

Drug and Alcohol Abuse Prevention Program and Policy

Purpose of Policy

It is the policy of the school that illicit drugs and alcohol use, manufacture, unlawful possession, sale, distribution, or dispensation by any student or employee on the school's property or as part of any of the school's activities is strictly prohibited. JPU is concerned about the potential adverse effects of alcohol or other drug use on student health and safety, as well as academic performance and patient care.

The school is committed to provide students, faculty, staff and visitors with a safe and healthful campus and workplace. The school recognizes the health risks associated with controlled substance use and alcohol misuse and is committed to supporting students and employees who seek treatment for these conditions. The School recognizes that controlled substance use and alcohol misuse diminish workplace and campus safety and undermine the school's ability to fulfill its mission. Therefore, an Alcohol-and Drug-Free Campus/workplace Policy has been developed. Compliance with this policy is considered a condition of employment and attendance at the School.

JPU reserves the right to revoke admission based on an adverse fingerprint or drug screening. Students are expected to report to class and clinical agencies in the appropriate mental and physical condition conducive to learning and the provision of safe patient care.

This policy is distributed in writing annually to students, staff and faculty.

Definitions

The following terms are defined for the purposes of this policy and are important for purposes of expressing the school's policy on a drug free campus:

Controlled Substance means a controlled substance in schedules I through V of section 202 of the Controlled Substances Act (21 U.S.C. 812), as further defined by regulations at 21 CFR 1300.11

through 1300.15, and as defined in the Official Code of Georgia Annotated (O.C.G.A.), Sections 16-13-35 to 16-13-39.

Contract means a legal instrument reflecting a relationship between the federal government and a recipient whenever the principal purpose of the instrument is the acquisition by purchase, lease, or barter, of property or services for the direct benefit or use of the federal government; or whenever an executive agency determines in a specific instance that the use of a type of procurement contract is appropriate.

Conviction means finding of guilt (including a plea of NOLO contendere) or imposition of sentence, or both, by any judicial body charged with the responsibility to determine violations of the federal or state criminal drug statutes;

Criminal drug statute means a federal or non-federal criminal statute involving the manufacture, sale, distribution, dispensation, use, or possession of any controlled substance;

Employee means an individual receiving a salary, wages, other compensation and/or stipend support from the university.

Federal agency or agency means any United States executive department, military department, government corporation, government controlled corporation, or any other establishment in the executive branch (including the Executive Office of the President), or any independent regulatory agency.

Grant means an award of financial assistance, including a cooperative agreement, in the form of money, or property in lieu of money, by a federal agency directly to a grantee. The term grant includes block grant and entitlement grant programs, whether or not exempted from coverage under the grants management government wide regulation ("Uniform Administrative Requirements for Grants and Cooperative Agreements to State and Local Governments"). The term does not include technical assistance which provides services instead of money, or other assistance in the form of loans, loan guarantees, interest subsidies, insurance, or direct appropriations; or any veteran's benefits to individuals, i.e., any benefit to veterans, their families, or survivors by virtue of the Service of a veteran in the Armed Forces of the United States.

Grantee means a legal entity which applies for or receives a grant or contract directly from a federal agency.

Illicit drug use means the use of illegal drugs and the abuse of other drugs and alcohol.

Student means an individual registered or enrolled for credit or non-credit in a course or program offered by the university or any of its units.

School activities mean an activity officially sponsored by JPU.

Workplace means the physical boundaries of the School and facilities owned or controlled by the School.

Philosophy

The unlawful use of drugs or abuse of other drugs and alcohol is inconsistent with the behavior expected of members of the School community. The School is committed to the development and maintenance of a drug-free environment on the campus as well as an environment that prohibits the abuse of other drugs and alcohol and has a drug and alcohol abuse prevention system in operation, accessible to all members of the School community. The School is committed to the further expansion of that program and the dissemination of drug awareness information to the members of the School community. In addition, the School is committed to enforcing the provisions of the Drug Free Communities and Schools Act Amendments of 1989 (Public Law 101-226) and the Georgia Drug-Free Postsecondary Act of 1990

Policy

As required by the Federal Drug-Free Schools and Communities Act Amendment of 1989, you are hereby notified by JPU that on JPU premises, affiliated clinical sites, or at other JPU sponsored events, activities specified as critical offenses will not be permitted. Students shall be prohibited from working, attending school, participating in clinical internships or attending JPU related functions while under the influence of alcohol and/or the use of illicit drugs. The use of such substances by students on premises or at JPU related functions shall be prohibited. Such conduct by a student shall be considered a critical offense.

To protect the health and safety of all persons, the use of tobacco products is prohibited on the school campus. Violation of the policy is a serious offense that could result in disciplinary action up to and including dismissal.

JPU recognizes that substance abuse is a major problem that affects students, families, education, and communities. JPU strictly opposes any situation that interferes with a student's safety, health and well-being, and anything that adversely affects academic performance, patient care, or is detrimental to the campus. To promote this goal and in accordance with the Federal Drug-Free Schools and Communities Act Amendment of 1989 and state law, JPU strictly prohibits the unlawful manufacture, distribution, possession, sale, or use of any illegal drugs, controlled substances, or alcohol while acting in the course of enrollment, on JPU owned, leased, or controlled property, while operating JPU owned, leased, or controlled equipment or vehicles, or at JPU sponsored functions. Students are required to report to their faculty use of any over-the-counter medication or prescribed medication that might impair a student's ability to participate in the educational process safely or effectively.

The school will impose sanctions on any student who violates this policy. Sanctions include:

1. Administrative Hold – the student is unable to enroll in courses until requirements to remove the Administrative Hold status are met. Requirements to remove the Administrative Hold status are provided with the Administrative Hold notification.
2. Dismissal from John Patrick University of Health and Applied Sciences
3. Removal from the student's clinical internship – Any student participating in their clinical internship may be removed from their internship setting temporarily or permanently based on guidance from JPU and the clinical site.

Student Use of Alcoholic Beverages

All students are responsible for complying with State law regarding the use of alcohol

- The age in most states is 21 to be in possession of alcoholic beverages
- Persons 21 or over may not make alcoholic beverages available to minors

- Misrepresentation of age for the purpose of purchasing alcoholic beverages is a violation of state law.

Health Risks

The following briefly summarizes health risks and symptoms associated with the use of alcohol and other drugs. It is important to note that individuals experience alcohol and drugs in different ways based on physical tolerance, body size and gender, and on a variety of other physical and psychological factors.

The health risks associated with the misuse and abuse of drugs, including controlled substances and alcohol, include but are not limited to: Physical and psychological dependence; damage to the brain, pancreas, kidneys and lungs; high blood pressure; heart attacks; strokes, ulcers, birth defects; a diminished immune system; and death.

Alcohol: Alcohol consumption causes a number of changes in behavior. Even low doses significantly impair the judgment and coordination required to drive a car safely, increasingly the likelihood that the driver will be involved in an accident. Low to moderate doses of alcohol also increase the incidence of a variety of aggressive acts. Moderate to high doses of alcohol cause marked impairments in higher mental functions severely altering a person's ability to learn and remember information. Very high doses cause respiratory depression and death. If combined with other depressants of the central nervous system, much lower doses of alcohol will produce the effects just described. Repeated use of alcohol can lead to dependence. Sudden cessation of alcohol intake is likely to produce withdrawal symptoms, including severe anxiety, tremors, hallucinations and convulsions. Long-term consumption of large quantities of alcohol can also lead to permanent damage to vital organs such as the brain and the liver. Mothers who drink during pregnancy may give birth to infants with fetal alcohol syndrome. These infants have irreversible physical abnormalities and mental retardation. In addition, research indicates that children of alcoholic parents are at greater risk than others of developing alcohol related problems.

Cigarettes and other Nicotine Products: In 1989, the U.S. Surgeon General issued a report that concluded that cigarettes and other forms of tobacco, such as cigars, pipe tobacco and chewing tobacco, are addictive and that nicotine is the drug in tobacco that causes addiction. In addition, the report determined that smoking was a major cause of stroke and the third leading cause of death in the United States. Nicotine is both a stimulant and a sedative to the central nervous system. Nicotine is absorbed readily from tobacco smoke in the lungs, and it does not matter whether the tobacco smoke is from cigarettes, cigars, or pipes, Nicotine also is absorbed readily when tobacco is chewed.

In addition to nicotine, cigarette smoke is primarily composed of a dozen gases (mainly carbon monoxide) and tar. The tar in a cigarette, which varies from about 15 mg for a regular cigarette to 7 mg in a low-tar cigarette, exposes the user to a high expectancy rate of lung cancer, emphysema, and bronchial disorders. The carbon monoxide in the smoke increases the chance of cardiovascular diseases. The Environmental Protection Agency has concluded that secondhand smoke causes lung cancer in adults and greatly increases the risk of respiratory illnesses in children and sudden infant death.

Prescription Medications: Prescription drugs that are abused or used for non-medical reasons can alter brain activity and lead to dependence. Commonly abused classes of prescription drugs include opioids (often prescribed in the treatment of pain), central nervous system depressants (often prescribed to treat anxiety and sleep disorders), and stimulants (prescribed to treat narcolepsy, ADHD,

and obesity). Long-term use of opioids or central nervous system depressants can lead to physical dependence and addiction. Taken in high doses, stimulants can lead to compulsive use, paranoia, dangerously high body temperatures and irregular heartbeat.

Marijuana: Marijuana use can lead to a number of long term and short term physical and psychological effects. Marijuana use leads to a substantial increase in the heart rate, impairs short term memory and comprehension and motivation can be altered.

Cocaine and Crack: Health risks may include changes in body temperature and blood pressure as well as heart and breathing rates. Even small amounts may cause the body to exceed its own limits, sometimes resulting in death. Snorting cocaine may severely damage nasal tissue and the septum. Smoking cocaine may damage the lungs. Someone using cocaine may experience muscle twitching, panic reactions, anxiety, numbness in hands and feet, loss of weight, a period of hyperactivity followed by a crash, a runny or bleeding nose, and depression. Other symptoms of cocaine use may include nausea, vomiting, insomnia, tremors, and convulsions. Chronic users may become paranoid and/or experience hallucinations.

Barbiturates: In small doses, barbiturates produce calmness, relaxed muscles, and lowered anxiety. Larger doses cause slurred speech, staggering gait, and altered perception. Very large doses or doses taken in combination with other central nervous system depressants (e.g., alcohol) may cause respirator depression, coma and even death. A person who uses barbiturates may have poor muscle control, appear drowsy or drunk, become confused, irritable, or inattentive, or have slowed reactions.

Amphetamines: Amphetamines, methamphetamines, or other stimulants can cause increased heart rate and respiratory rates, elevated blood pressure, and dilated pupils. Larger doses cause rapid or irregular heartbeat, tremors, and physical collapse. An amphetamine injection creates a sudden increase in blood pressure that can result in stroke, high fever, heart failure and death. An individual using amphetamines might begin to lose weight, have the sweats, and appear restless, anxious, moody, and unable to focus. Extended use may produce psychosis, including hallucinations, delusions and paranoia.

Hallucinogens: PCP, or angel dust, interrupts the part of the brain that controls the intellect and keeps instincts in check. PCP blocks pain receptors. Violent episodes, including self-inflicted injuries, are not uncommon. Chronic users report memory loss and speech difficulty. Very large doses produce convulsions, coma, heart and lung failure, or ruptured blood vessels in the brain. LSD, mescaline, peyote, etc. cause dilated pupils, elevated body temperature, increased heart rate and blood pressure and tremors. Someone under the influence of PCP might appear moody, aggressive, or violent. Sleeplessness, confusion, anxiety, and panic, and may report perceptual distortions. Flashbacks may occur.

Steroids (anabolic): Anabolic steroids are human-made substances related to male sex hormones. Some athletes abuse anabolic steroids to enhance performance. Abuse of anabolic steroids can lead to serious health problems, some of which are irreversible. Short term side effects include depression, hallucinations, paranoia, severe mood swings and aggressive behavior. Major side effects also can include liver tumors and cancer, jaundice, high blood pressure, kidney tumors, severe acne and trembling. In males side effects may include shrinking of the testicles and breast development. In females, side effects may include growth of facial hair, menstrual changes and deepened voice. In teenagers, growth may be halted prematurely and permanently.

Narcotics: Because narcotics are generally injected, the use of contaminated needles may result in the contraction of many different diseases, including AIDS and hepatitis. Symptoms of overdose include shallow breathing, clammy skin, convulsions, and coma and may result in death. Some signs of narcotic use are euphoria, drowsiness, constricted pupils, and nausea. Other symptoms include itchy skin, needle or “track” marks on the arms and legs, nodding, lack of sex drive and appetite, sweating, cramps and nausea when withdrawing from the drug.

Treatment

Medication and behavioral therapy, alone or in combination, are aspects of an overall therapeutic process that often begins with detoxification, followed by treatment and relapse prevention. Easing withdrawal symptoms can be important in the initiation of treatment; preventing relapse is necessary for maintaining its effects. And sometimes, as with other chronic conditions, episodes of relapse may require a return to prior treatment components. A continuum of care that includes a customized treatment regimen, addressing all aspects of an individual’s life including medical and mental health services, and follow-up options (e.g. community or family based recovery support systems) can be crucial to a person’s success in achieving and maintaining a drug-free lifestyle.

Procedure

All students must, as a condition of their enrollment, adhere to this policy. Students are responsible for notifying the administration within five (5) days of any drug and/or alcohol related criminal conviction while enrolled as a student at JPU. Students must certify that, as a condition of enrollment or receiving financial aid, that he or she will not engage in the unlawful manufacture, distribution, dispensation, or the use of a controlled substance during the period covered by enrollment or where federal financial assistance is used for education. Violations of this prohibition will result in dismissal and/or other appropriate actions.

JPU reserves the right to take appropriate and lawful action to enforce this Drug and Alcohol-Free Campus Policy. These rights include drug and/or alcohol testing and inspection of any and all JPU and student property when the organization has a reasonable suspicion that this policy has been violated. JPU may ask a student to submit to drug and/or alcohol testing at any time it is suspected that a student may be under the influence of drugs or alcohol, including, but not limited to, the following circumstances:

- evidence of drugs or alcohol on the student’s person or in the student’s vicinity,
- unusual conduct or behavior on the student’s part that suggests impairment or influence of drugs and/or alcohol,
- involvement in an accident or injury event,
- negative performance patterns.

JPU reserves the right to conduct random drug and/or alcohol testing in order to assess compliance with this policy. Students may be selected at random for drug and/or alcohol testing at any interval as determined by JPU.

Students involved in school-related accidents that require off-site medical treatment or result in property damage will be tested for controlled substances and alcohol. Any student who refuses to be tested or violates this policy is subject to disciplinary action up to and including dismissal. JPU encourages students with drug and/or alcohol abuse problems to seek counseling and treatment.

This policy is in compliance with the U.S. Department of Education and the Drug-free Schools and Communities Act Amendment of 1989, P.L. 101-226 20 U.S.C.'s 114 5g Higher Education Act of 1965, Section 1213.

Resources

In addition to the imposition of disciplinary sanctions as explained in this Code of Conduct including dismissal for such act, students or employees may face prosecution and imprisonment under federal and state laws which make such acts felony or misdemeanor crimes.

JPU is committed to helping students who seek assistance and further recognize and insure the confidentiality and privacy due students. Students are encouraged to consult with Student Resource Services, which provides confidential and professional guidance for substance abuse problems. This service is anonymous and completely free to students.

Self-referrals, as well as supervisory referrals, for drug counseling, treatment, rehabilitation, and re-entry programs are available to students and employees through Student Resource Services.

A specialist can be reached by telephone 24 hours a day, including holidays and weekends.

Contact Information:

Student Resource Services School ID: R852

Phone: 866-640-4777

Online: www.studentlifetools.com

National Resources for Drug and Alcohol Abuse Prevention, Education, and Support:

Alcoholics Anonymous	Support for people who want to Achieve sobriety	www.alcoholics-anonymous.org
Al-Anon Family Group	Support and help for families and Friends of problem drinkers	www.al-anon.alateen.org
Narcotics Anonymous	Support in a recovery environment For people who abuse substances	www.na.org
Substance Abuse and Mental Health Services Administration	U.S. Department of Health and Human Services agency "that Leads public health efforts to Advance the behavioral health of The nation... and whose mission is To reduce the impact of substance Abuse and mental illness on America's communities."	www.samhsa.gov/

Drug Law Violations—Eligibility for Title IV Funding

For the protection and welfare of all students and employees, JPU has established a drug-free policy. In addition to the civil and/or criminal penalties for a conviction for any offense during a period of enrollment for which the student was receiving Title IV, HEA program funds, under any federal or state law involving the possession or sale of illegal drugs, this conviction will result in the loss of

eligibility for any Title IV, HEA grant, loan, or work-study assistance. See the Notice of Federal Aid Penalties for Drug Law Violations distributed to all students upon enrollment.

Education

The JPU Administration is involved in educating students about alcohol and other drugs. In particular, during orientation, drug and alcohol abuse are discussed and information disseminated.

Enforcement

The President and Vice President of Academic Affairs and Academic Dean enforce policies and laws regarding alcohol and other drug use. Students and staff are referred to various agencies to receive help with drug or alcohol problems,

Faculty: Faculty who violate the school's standards of conduct are subject to disciplinary action including reprimand, suspension, or dismissal.

Other Employees: The school may impose sanctions against any employee who violates Federal, State or local laws, or the standards of school conduct. Depending on the nature and severity of the violation, these sanctions can range from warnings and/or mandatory referral for drug or alcohol rehabilitation to outright termination of employment.

Helpful Websites:

http://www.brainsource.com/brain_on_drugs.htm

<http://www.nida.nih.gov>

Local, State, and Federal Legal Sanctions

The following information highlights the criminal penalties that can be imposed by state or federal statute for violations regarding alcohol or illegal drug possession, use, sale, manufacture, or distribution. Convictions under state and/or federal laws regarding alcohol-related and drug-related offenses can result in fines, confiscation of automobiles and other property, loss of one's driver's license, imprisonment, and in some cases, loss of licenses or certifications in certain professions and employment opportunities may be prohibited.

In short, all persons should be aware of the following:

- In Indiana, any person under 21 who possesses an alcoholic beverage, and any person who provides alcohol to any person under 21, is at risk of arrest
- Any person who is intoxicated in public is at risk of arrest
- A person convicted of driving while intoxicated may be punished by fine, be jailed, and lose his or her driver's license
- Any selling of alcoholic beverages without a license is illegal
- Possession, use, distribution, or manufacture of controlled substances (drugs) illegally can result in arrest and conviction of a drug law violation and:
 - Fines up to \$10,000 (Indiana);
 - Fines up to \$10 million for a first offense (federal);
 - Imprisonment up to 50 years (Indiana);
 - Imprisonment for life (federal); and
 - Confiscation of property

The following shows the Federal penalties:

Federal Trafficking Penalties				
DRUG/SCHEDULE	QUANTITY	PENALTIES	QUANTITY	PENALTIES
Cocaine (Schedule II)	500 – 4999 gms mixture	First Offense: Not less than 5 yrs. And not more than 40 years. If Death or serious injury, not less than 20 or more than life. Fine of not more than \$2 million if an individual, \$5 million if not an individual.	5 kgs or more mixture	First Offense: Not less than 10 yrs, and not more than life. If death or serious injury, not less than 20 or more than life. Fine of not more than \$4 million if an individual, \$10 million if not an individual.
Cocaine Base (Schedule II)	5 - 49 gms mixture		50 gms or more mixture	
Fentanyl (Schedule II)	40 - 399 gms mixture		400 gms or more mixture	
Fentanyl Analogue (Schedule I)	10 - 99 gms mixture		100 gms or more mixture	
Heroin (Schedule I)	100 - 999 gms mixture		1 kg or more mixture	Second Offense: Not less than 20 yrs, and not more than life. If death or serious injury, life imprisonment. Fine of not more than \$8 million if an individual, \$20 million if not an individual.
LSD (Schedule I)	1 – 9 gms mixture	10 gms or more mixture		
Methamphetamine (Schedule II)	5 – 49 gms pure or 50 – 499 gms mixture	50 gms or more pure or 500 gms or more mixture		
PCP (Schedule II)	10 – 99 gms pure or 100 – 999 gms mixture	100 gm or more pure or 1 kg or more mixture	2 or More Prior Offenses: Life Imprisonment	
PENALTIES				
Other schedule I & II drugs (and any drug product containing Gamma Hydroxybutyric Acid)	Any amount	First Offense: Not more than 20 yrs. If death or serious injury, not less than 20 yrs, or more than Life. Fine \$1 million if an individual, \$5 if not an individual Second Offense: Not more than 30 yrs. If death or serious injury, not less than life. Fine \$2 million if an individual, \$10 million if not an individual.		
Flunitrazepam (Schedule IV)	1 gm or more			
Other Schedule III drugs	Any amount	First Offense: Not more than 5 years. Fine not more than \$250,000 if an individual, \$1 million if not an individual.		
Flunitrazepam (Schedule IV)	30 to 999 mgs	Second Offense: Not more than 10 yrs. Fine not more than \$500,000 if an individual, \$2 million if not an individual.		

All other Schedule IV drugs	Any amount	First Offense: Not more than 3 years. Fine not more than \$250,000 if an individual, \$1 million if not an individual.
Flunitrazepam (Schedule IV)	Less than 30 mgs	Second Offense: Not more than 6 yrs. Fine not more than \$500,000 if an individual, \$2 million if not an individual.
All Schedule V drugs	Any amount	First Offense: Not more than 1 yr. Fine not more than \$100,000 if an individual, \$250,000 if not an individual. Second Offense: Not more than 2 yrs. Fine not more than \$200,000 if an individual, \$500,000 if not an individual

Federal Trafficking Penalties – Marijuana

DRUG	QUANTITY	1 ST OFFENSE	2 ND OFFENSE
Marijuana	1,000 kg or more mixture; or 1,000 or more plants	<ul style="list-style-type: none"> - Not less than 10 years, not more than life - If death or serious injury, not less than 20 years, not more than life - Fine not more than \$4 million if an individual, \$10 million if other than an individual 	<ul style="list-style-type: none"> - Not less than 20 years, not more than life - If death or serious injury, mandatory life - Fine not more than \$8 million if an individual, \$20 million if other than an individual
Marijuana	to 999 kg mixture; or 100 to 999 plants	<ul style="list-style-type: none"> - Not less than 5 years, not more than 40 years - If death or serious injury, not less than 20 years, not more than life - Fine not more than \$2 million if an individual, \$5 million if other than an individual 	<ul style="list-style-type: none"> - Not less than 10 years, not more than life - If death or serious injury, mandatory life - Fine not more than \$4 million if an individual, \$10 million if other than an individual
Marijuana	More than 10 kgs hashish; 50 to 99 kg mixture More than 1 kg of hashish oil; 50 to 99 plants	<ul style="list-style-type: none"> - Not more than 20 years - If death or serious injury, not less than 20 years, not more than life - Fine \$1 million if an individual, \$5 million if other than an individual 	<ul style="list-style-type: none"> - Not more than 30 years - If death or serious injury, mandatory life - Fine \$2 million if an individual, \$10 million if other than individual
Marijuana	to 49 plants; less than 50 kg mixture	<ul style="list-style-type: none"> - Not more than 5 years - Fine not more than \$250,000, \$1 million other than individual 	<ul style="list-style-type: none"> - Not more than 10 years - Fine \$500,000 if an individual, \$2 million if other than individual
Hashish	110 kg or less		
Hashish Oil	1 kg or less		

Biennial Review

JPU conducts a biennial reviews of its program to:

- Determine the effectiveness of the program and implement changes as needed.
- Determine the number of drug and alcohol-related violations and fatalities that occur on the school's campus or as part of the school's activities, and are presorted to campus officials
- Determine the number and type of sanctions that are imposed
- Ensure that disciplinary sanctions are consistently enforced.

Biennial review results are made available to students and employees. Upon request, JPU will make biennial reviews available to the U.S. Department of Education and to the public, including information distributed to students and employees.

Dismissal

John Patrick University of Health and Applied Sciences reserves the right to dismiss any student from the program for any of the following reasons:

- ✓ Non-compliance of the rules and regulations of John Patrick University of Health and Applied Sciences
- ✓ Engagement in any illegal or criminal act
- ✓ Any conduct that brings discredit or embarrassment to John Patrick University of Health and Applied Sciences
- ✓ Failure to make satisfactory academic progress
- ✓ Failure to satisfy financial obligations to John Patrick University of Health and Applied Sciences

Student Records

All documentation and records pertaining to students are held in strict confidence as accorded by law. It is also an ethical standard of Radiological Technology University to do so. Student records will be retained indefinitely (and safely) by this institution.

Student records are available for release to third parties upon the student's written request, a court order, or an oversight agency's requirement.

Family Educational Rights and Privacy Act

All students enrolled at John Patrick University of Health and Applied Sciences-VT shall have the right to inspect and review their educational records, to request corrections and deletions, and to limit disclosure with the Family Educational Rights and Privacy Act of 1974. The procedure for exercising these rights is available to students upon request at the office of the Executive Director.

Student records are kept on file in an appropriate and secure location. They are confidential and are available for approved purposes only by authorized employees. In accordance with the Family Educational Rights and Privacy Act of 1974, the college will not release educational records to

unauthorized persons without the prior written consent of the student or parent/legal guardian if the student is less than 18 years of age.

The Family Educational Rights and Privacy Act of 1974 was designed to protect the privacy of educational records, establish the right of students to inspect and review their educational records, and provide guidelines for correction of inaccurate or misleading data through informal and formal hearings. Students also have the right to file complaints with the Family Educational Rights and Privacy Act (FERPA) Office concerning alleged failures by the school to comply with the Act.

NOTICE: John Patrick University of Health and Applied Sciences-VT will generally release certain directory information pertaining to its students to the public. This information may include student's name, address(es), phone number, program, dates of attendance, photographs, post- graduation employer and job title, participation in activities and recognition record, and the secondary and postsecondary educational institution attended by the student. If students prefer that any of this information may not be released by John Patrick University of Health and Applied Sciences-VT, they may make that request in writing, and Radiological Technology University – VT will honor it.

Refer to the FERPA Policy under Consumer Information for complete details.

Drop/ Add Period

Courses dropped during the first week of the semester will not appear on the student's transcript and students will not be charged tuition for those courses. Courses dropped during the second through seventh week of any semester will appear on the student's transcript with a grade of "W". Any course dropped after the seventh week of the semester will appear on the student's transcript with a grade of "WF". Tuition refunds will follow the stated refund policy of JPU.

Students may choose to add a subject to their schedule only during the first week of the semester. The addition of one or more courses may affect the tuition due.

Withdrawals

We hope it will not be necessary for you to withdraw; but if circumstances cause you to consider doing so, please discuss any problems with us before making that decision. We are often able to provide assistance that enables students to remain in college.

If you must withdraw, an exit interview with the Administrator or Administrative services is required. During this meeting, you will discuss tuition due, refunds or outstanding debts. Students who withdraw from class will receive an appropriate grade as outlined in the section entitled Drop/Add Period. Upon returning, students will be required to repeat the class and will be responsible for any additional expenses.

Transcripts

Upon written request by the student, John Patrick University of Health and Applied Sciences will prepare and forward a transcript of the student's record. All requests must include the student's full name, a statement requesting a transcript be issued, the address to which the student would like the transcript sent, and a release signature. Official transcripts will only be released if the student is in good standing with the academic office. Transcripts are sent free of charge within two weeks of the date the request was received.

Tuition and Fees

John Patrick University of Health and Applied Sciences charges a fixed rate per credit for each degree program. Tuition is found under each Program Description and is charged by semester based on credits the student is enrolled in. The cost of textbooks and study materials are not included in the tuition and outlined below.

Application Fee	\$35.00	(Non Refundable)
IT Service Fee	\$30.00	per semester
Library Fee	\$20.00	per semester

Textbooks	The student is responsible for securing all required textbooks unless otherwise stated
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Boot Camp weeks	The student is responsible for any travel, meals, and accommodation expenses that are incurred by attending boot camps.
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Students in the following programs are expected to maintain student memberships with the following organizations:

Medical Dosimetry Program	
American Association of Medical Dosimetrists	\$60.00 per year (directly to AAMD)

Tuition Rate Per Credit

AS Radiologic Technology Program	\$533.34 per credit
BS Medical Dosimetry Program	\$533.34 per credit
BS Radiation Therapy Program	\$533.34 per credit
BS Radiologic Science Program	\$533.34 per credit
BS Medical Imaging Program	\$533.34 per credit
Certificate Programs	\$533.34 per credit
Continuing Education Courses	\$533.34 per credit

Tuition Discounts Available

Family Members of JPU Faculty

Family members of faculty receive a 50% discount on standard program tuition. The faculty member must be in good standing with JPU. Family members are defined as a spouse or child.

ProVision Healthcare, LLC

JPU offers a 29.508% discount on standard program tuition to employees and volunteers of ProVision or its affiliates for undergraduate degrees. All JPU admissions requirements must be met for the applicable degree program.

ProVision is responsible for validating the position of prospective or current students within their organization. If the employee leaves or is dismissed from employment, or changes from full-time status, the benefit will be terminated at the end of the current academic semester.

Cancer Treatment Services International

JPU offers a tuition rate of \$333.34 to employees and associates of CTSI. All JPU admissions requirements must be met for the applicable degree program.

Petrone Associates, LLC

JPU offers a 20% tuition discount for employees of Petrone Associates, LLC enrolled in the BS Medical Dosimetry program. The prospective student must meet normal admission requirements for JPU.

Kosciusko Community Hospital

JPU offers a 25% tuition discount for employees of Kosciusko Community Hospital enrolled in undergraduate degree programs. The prospective student must meet normal admission requirements for JPU.

US Oncology

JPU offers a 20% tuition discount for current employees of US Oncology enrolled in undergraduate degree programs. The prospective student must meet normal admission requirements for JPU.

Residents of California

The State of California established the Student Tuition Recovery Fund (STRF) to relieve or mitigate economic loss suffered by a student in an educational program at a qualifying institution, who is or was a California resident while enrolled, or was enrolled in a residency program, if the student enrolled in the institution, prepaid tuition, and suffered an economic loss. Unless relieved of the obligation to do so, you must pay the state-imposed assessment for the STRF, or it must be paid on your behalf, if you are a student in an educational program, who is a California resident, or are enrolled in a residency program, and prepay all or part of your tuition.

You are not eligible for protection from the STRF and you are not required to pay the STRF assessment, if you are not a California resident, or are not enrolled in a residency program.

It is important that you keep copies of your enrollment agreement, financial aid documents, receipts, or any other information that documents the amount paid to the school. Questions regarding the STRF may be directed to the Bureau for Private Postsecondary Education, 2535 Capitol Oaks Drive, Suite 400, Sacramento, CA 95833, (916) 431-6959 or (888) 370-7589.

To be eligible for STRF, you must be a California resident or are enrolled in a residency program, prepaid tuition, paid or deemed to have paid the STRF assessment, and suffered an economic loss as a result of any of the following:

1. The institution, a location of the institution, or an educational program offered by the institution was closed or discontinued, and you did not choose to participate in a teach-out plan approved by the Bureau or did not complete a chosen teach-out plan approved by the Bureau.
2. You were enrolled at an institution or a location of the institution within the 120 day period before the closure of the institution or location of the institution, or were enrolled in an educational program within the 1202 day period before the program was discontinued.
3. You were enrolled at an institution or a location of the institution more than 120 days before the closure of the institution or location of the institution, in an educational program offered by the institution as to which the Bureau determined there was a significant decline in the quality or value of the program more than 120 days before closure.

4. The institution has been ordered to pay a refund by the Bureau but has failed to do so.
5. The institution has failed to pay or reimburse loan proceeds under a federal student loan program as required by law, or has failed to pay or reimburse proceeds received by the institution in excess of tuition and other costs.
6. You have been awarded restitution, a refund, or other monetary award by an arbitrator or court, based on a violation of this chapter by an institution or representative of an institution, but have been unable to collect the award from the institution.
7. You sought legal counsel that resulted in the cancellation of one or more of your student loans and have an invoice for services rendered and evidence of the cancellation of the student loan or loans.

To qualify for STRF reimbursement, the application must be received within four (4) years from the date of the action or event that made the student eligible for recovery from STRF.

A student whose loan is revived by a loan holder or debt collector after a period of non-collection may, at any time, file a written application for recovery from STRF for the debt that would have otherwise been eligible for recovery. If it has been more than four (4) years since the action or event that made the student eligible, the student must have filed a written application for recovery within the original four (4) year period, unless the period has been extended by another act of law.

However, no claim can be paid to any student without a social security number or a taxpayer identification number.

FINANCIAL POLICIES

The primary responsibility for financing a college education rests with the student. Students with unpaid balances may lose current enrollment and will not be allowed to register for any subsequent terms. Transcripts and diplomas are withheld from those who have not settled their financial obligations, which may include collection fees, attorney's fees, and court costs. Students are not fully registered, nor will they have the privilege of class attendance, participation in activities, or use of facilities until their charges are paid. E-service charge of 1.5 percent, not to exceed \$45.00, may be added to any balance in the student account that is more than two (2) weeks past due.

Payment

Students assume the responsibility assistance for payment of the tuition costs in full, either through direct payment or through a financial aid plan for those who qualify. All financial arrangements must be made before the beginning of classes. The school will contact students who are delinquent in paying tuition and fees. They will then be counseled and encouraged to make specific arrangements with the school in order to remove their delinquency and remain in good financial standing. The school reserves the right to change tuition and fees, make curricular changes when necessary, and make substitutions in books and supplies as required without prior notice. Any changes in tuition or fees will not affect a student already in attendance or enrolled.

Tuition Payment Methods

John Patrick University of Health and Applied Sciences accepts payment for tuition, course materials, equipment and other fees through cash payment, all major credit/debit cards, cashier's check, personal check, or company check. Upon availability, John Patrick University of Health and Applied Sciences will also assist students in applying for student financial assistance in order to defray the cost of their education. At the school's discretion, a payment plan may be arranged for those who qualify. All

outstanding student account balances are billed directly to the student upon graduation or termination. Failure to satisfy delinquent accounts within a reasonable time period will result in the account being submitted to a collection agency for processing and the student will not be allowed to graduate.

Payment Plans: Students are able to qualify for payment plans directly with JPU when the student is unable to qualify for student loans, or they qualify for student loans at an interest rate above 7%. Monthly payment amounts for payment plans are expected to be manageable for the student and allow for the shortest duration of payments to satisfy the financial obligation of their program. The minimum monthly payment amount is set at \$500, but some students may qualify for a lower monthly payment due to financial hardship.

John Patrick University of Health and Applied Sciences Refund Policy

The University shall pay a refund to the student in the amount calculated under the refund policy specified in this section. The University must make the proper refund no later than thirty-one (31) days of the student's request for cancellation or withdrawal.

The following refund policy applies:

- 1) A student is entitled to a full refund if one (1) or more of the following criteria are met:
 - A. The student cancels the enrollment agreement or enrollment application within six (6) business days after signing.
 - B. The student does not meet the postsecondary proprietary educational institution's minimum admission requirements.
 - C. The student's enrollment was procured as a result of a misrepresentation in the written materials utilized by the postsecondary proprietary educational institution.
 - D. If the student has not visited the postsecondary educational institution prior to enrollment and, upon touring the institution or attending the regularly scheduled orientation/classes, the student withdrew from the program within three (3) days.
- 2) A student withdrawing from an instructional program, after starting the instructional program at a postsecondary proprietary institution and attending one (1) week or less, is entitled to a refund of ninety percent (90%) of the cost of the financial obligation, less an application/enrollment fee of ten percent (10%) of the total tuition, not to exceed one hundred dollars (\$100).
- 3) A student withdrawing from an instructional program, after attending more than one (1) week but equal to or less than twenty-five percent (25%) of the duration of the instructional program, is entitled to a refund of seventy-five percent (75%) of the cost of the financial obligation, less an application/enrollment fee of ten percent (10%) of the total tuition, not to exceed one hundred dollars (\$100).
- 4) A student withdrawing from an instructional program, after attending more than twenty-five percent (25%) but equal to or less than fifty percent (50%) of the duration of the instructional program, is entitled to a refund of fifty percent (50%) of the cost of the financial obligation, less an application/enrollment fee of ten percent (10%) of the total tuition, not to exceed one hundred dollars (\$100).
- 5) A student withdrawing from an instructional program, after attending more than fifty percent (50%) but equal to or less than sixty percent (60%) of the duration of the instructional program, is entitled to a refund of forty percent (40%) of the cost of the financial obligation, less an

application/enrollment fee of ten percent (10%) of the total tuition, not to exceed one hundred dollars (\$100).

- 6) A student withdrawing from an institutional program, after attending more than sixty percent (60%) of the duration of the instructional program, is not entitled to a refund.

Return of Title IV (R2T4) Policy

The law specifies how John Patrick University of Health and Applied Sciences must determine the amount of Title IV program assistance that you earn if you withdraw from school. The Title IV programs covered by this law are: Federal Pell Grants, Iraq and Afghanistan Service Grants, TEACH Grants, Direct Loans, Direct PLUS Loans, Federal Supplemental Educational Opportunity Grants (FSEOGs), and Federal Perkins Loans.

Though your aid is posted to your account at the start of each period, you earn the funds as you complete the period. If you withdraw during your payment period or period of enrollment (semester), the amount of Title IV program assistance that you have earned up to that point is determined by a specific formula. If you received (or your school or parent received on your behalf) less assistance than the amount that you earned, you may be able to receive those additional funds. If you received more assistance than you earned, the excess funds must be returned by the school and/or you. Title IV program excess funds must be returned within 45 days.

Earned and Unearned Assistance

The amount of assistance you have earned is determined on a pro rata basis. For example, if you completed 30% of your payment period or period of enrollment, you earn 30% of the assistance you were originally scheduled to receive. Once you have completed more than 60% of the payment period or period of enrollment, you earn all the assistance that you were scheduled to receive for that period.

Post-Withdrawal Disbursement

If you did not receive all of the funds that you earned, you may be due a post-withdrawal disbursement. If your post-withdrawal disbursement includes loan funds, JPU must get your permission before disbursing them. You may choose to decline some or all of the loan funds so that you don't incur additional debt. JPU may automatically use all or a portion of your post-withdrawal disbursement of grant funds for tuition, fees, and room and board charges (as contracted with the school). JPU needs your permission to use the post-withdrawal grant disbursement for all other school charges. If you do not give your permission (some schools ask for this when you enroll), you will be offered the funds. However, it may be in your best interest to allow JPU to keep the funds to reduce your debt at JPU.

There are some Title IV funds you were scheduled to receive that cannot be disbursed to you once you withdraw because of other eligibility requirements. For example, if you are a first-time, first-year undergraduate student and you have not completed the first 30 days of your program before you withdraw, you will not receive any Direct Loan funds that you would have received had you remained enrolled past the 30th day.

If you receive (or your school or parent receive on your behalf) excess Title IV program funds that must be returned, JPU must return a portion of the excess equal to the lesser of:

- Your institutional charges multiplied by the unearned percentage of your funds, or
- The entire amount of excess funds.

JPU must return this amount even if it didn't keep this amount of your Title IV program funds. If JPU is not required to return all of the excess funds, you must return the remaining amount.

The Order of Returning Title IV funds:

1. Unsubsidized Direct Loan
2. Subsidized Direct Staff Loan
3. Perkins Loan
4. Direct Grad PLUS Loan
5. Direct Parent PLUS Loan
6. Pell Grant
9. FSEOG
10. TEACH Grant
11. Iraq & Afghanistan Service Grant

Any loan funds that you must return, you (or your parent for a Direct PLUS Loan) repay in accordance with the terms of the promissory note. That is, you make scheduled payments to the holder of the loan over a period of time.

Overpayment

Any amount of unearned grant funds that you must return is called an overpayment. The maximum amount of a grant overpayment that you must repay is half of the grant funds you received or were scheduled to receive. You do not have to repay a grant overpayment if the original amount of the overpayment is \$50 or less. You must make arrangements with JPU or the Department of Education to return the unearned grant funds.

Return of Title IV Policy and JPU Refund Policy

When you withdraw, the requirements for Title IV program funds are separate from any refund policy that JPU may have. Therefore, you may still owe funds to JPU to cover unpaid institutional charges. You may also be responsible for charges that initially had been paid by Title IV funds, where those funds were required to be returned to Title IV. If you do not already know JPU's refund policy, you should request a copy from the Director of Administrative Services or refer to the Academic Catalog. JPU can also provide you with the requirements and procedures for officially withdrawing from school.

Questions

If you have questions about your Title IV program funds, you can call the Federal Student Aid Information Center at 1-800-4-FEDAID (1-800-433-3243). TTY users may call 1-800-730-8913. Information is also available on Student Aid on the Web at www.studentaid.ed.gov.

Federal VA Refund Policy:

Title 38 US Code CFR 21.4255 Refund Policy; Non-Accredited Courses for IHL/NCD

A refund of the unused portion of the tuition, fees and other charges will be made to the veteran or eligible person who fails to enter or fails to complete the course as required by Veteran Administration regulation. The refund will be within 10% (percent) of an exact pro rata refund. No more than \$10.00 of the established registration fee will be retained if a veteran or eligible person fails to enter and complete the course.

The code states that the exact proration will be determined on the ratio of the number of days of instruction completed by the student to the total number of instructional days in the course.

Veterans Benefits and Transition Act of 2018, section 3679 of title 38, United States Code

Covered individuals (any individual who is entitled to educational assistance under Chapter 31, Vocational Rehabilitation and Employment, or Chapter 33, Post 9/11 GI Bill benefits) are permitted to participate in the course of education during the period beginning on the date on which the individual provides to JPU a certificate of eligibility for entitlement to educational assistance under Chapter 31 or 33 (a “certificate of eligibility” can also include a “Statement of Benefits” obtained from the Department of Veterans Affairs’ (VA) website e-Benefits, or a VAF 28-1905 form for Chapter 31 authorization purposes) and ending on the earlier of the following dates:

1. The date on which payment from VA is made to JPU.
2. 90 days after the date the institution certified tuition and fees following the receipt of the certificate of eligibility.

JPU will not impose a penalty, including the assessment of late fees, the denial of access to classes, libraries, or other institutional facilities, or the requirement that a covered individual borrow additional funds, on any covered individual because of the individual’s inability to meet his or her financial obligations to JPU due to the delayed disbursement funding from VA under Chapter 31 or 33.

STUDENT SERVICES

Faculty and staff work along with the individual student (as much as possible) to aid in making the duration of the program comfortable. All resources that are available to us are utilized to the fullest to assist the student in attaining his/her career goal.

Student services are available to all students, regardless of whether they reside locally. Student services are very important to the success of students, so JPU leadership ensures appropriate budgetary resources are available.

Advising

Academic: Students are encouraged to seek academic counsel from the faculty members, and Administrator - not only during registration periods but also during the academic year when problems and questions arise.

Admissions: Prospective students of the college are interviewed by Admissions Representatives to make sure their career objectives can be served by the college’s academic resources. Those persons whose objectives cannot be served by the programs of the college are advised to seek other educational institutions that offer programs more aligned to their fields of interest.

Employment: JPU graduate placement support begins the first semester the student enters the program. Students are informed of opportunities in the industry during boot camp weeks and encouraged to be active with early networking. JPU meets with every student during boot camp weeks and discusses employment opportunities and placement opportunities. Students have access to faculty to assist with résumé writing, résumé reviews, rehearsing interviews, and coaching. JPU faculty are actively

engaged with students and connecting them with opportunities through professional associations and relationships. JPU is evaluating other mechanisms to increase the student's exposure to employers. Graduate employment is very important to JPU. JPU does not guarantee employment after graduation.

Financial Assistance: Students may seek information from Administrative Services to manage financial arrangements.

Personal: Students and potential students are welcome and encouraged to seek assistance from any member of the staff or faculty regarding professional, personal, financial, and /or admissions advising when issues arise that have a negative effect on their ability to do their best work at John Patrick University of Health and Applied Sciences. When appropriate, students are referred to outside agencies or professionals for support or assistance. Through our online program students are given access to counseling services through www.wellconnectbysrs.com. This website provides information, tools and support to address barriers to their success. Comprehensive student services are based on an individualized service. Students have access 24/7 to telephone counseling for students in crisis, assessment and students.

Orientation

A new student will receive online orientation including computer hardware and software requirements, resources available for successful completion of program requirements, as well as policies and procedures prior to the start of a program. Completion of administrative matters are also taken care of at this time. Each student will receive a written course outline no later than the first day of class.

Student Email

Students are given an JPU email with the @JPU.edu domain. Email is provided by Microsoft@Outlook365. Student email accounts expire no later than 90 days after graduation. Upon the expiration of the student email account, no data is saved. Students who wish to save correspondence should do so prior to the expiration date.

It resources are provided for University-related purposes including support for instruction, research, administrative functions, and student use for the purpose of facilitating the successful completion of coursework. Use of the resources should be limited to these purposes, including incidental personal use.

Users are responsible for being aware of any University policies or regulations that govern the use of IT resources. Refer to JPU's Appropriate Use Policy for IT Resources. Users must comply with all federal and state laws and University policies. Incidental personal use must not interfere with the intended use of the IT resources or include any illegal activity.

Books and Supplies

Course material and resources will be provided to the students online. Required textbooks are to be obtained by the student. JPU does not have a bookstore where books and supplies may be purchased. JPU provides a textbook listing by program which provides textbook information including ISBN-13 and price. The textbook listing is available on the public website at www.rtuvt.edu, through the course management system, and by request to the Director of Administrative Services.

Hours of Operation

Administrative Offices

Monday – Friday

9:00 am – 5:00pm EST

Contact Information

100 E. Wayne Street, Suite 140
South Bend, IN 46601
Phone: 574.232.2408
Toll Free 877.411.7238
Fax: 574.232.2200

Student Resource Services

All students also have access to the Student Resource Service (SRS) website (www.wellconnectbysrs.com) for information, tools, and support to address barriers to their success. Comprehensive student services are based on an individualized service plan and include:

- ✓ Unlimited 24-7 telephone counseling response to any covered students in crisis, assessment and students needing additional support or identifying new needs/requests;
- ✓ Telephone counseling/life coaching (1-5 telephone counseling hours) from a licensed mental health professional;
- ✓ Individualized resource searches for all covered students, focused on issues that impede student success, including special adjustment needs by specific populations such as returning veterans;
- ✓ Telephone consultations for all covered students with an attorney or financial expert;
- ✓ Follow-up and outreach with the student until all issues are resolved sufficiently that the student can be successful in personal and school goals;
- ✓ Staff/faculty formal referral of students with intensive needs;
- ✓ Faculty consultation on any student concerns that would impede that student from being successful.

PROGRAM DESCRIPTIONS

Course Numbering System Descriptions

MP	Medical Physics
MHP	Medical Health Physics
HP	Health Physics
MD	Medical Dosimetry
RTT	Radiation Therapy
RS	Radiologic Science
MI	Medical Imaging
RTE	Radiologic Technology
MR	Magnetic Resonance Imaging (MRI)
CT	Computed Tomography (CT)
PET	Positron Emission Tomography (PET)
PR	Proton Therapy
SCI	Science
SOC	Social Science
HUM	Humanities
BIOL	Biology courses
PHY	Physics courses

MATH	Mathematics
100-299	Associate level
300-499	Bachelor level
500-699	Graduate level

UNDERGRADUATE LEVEL PROGRAMS

Bachelor of Science in Medical Dosimetry

The Bachelor of Science in Medical Dosimetry program is designed to prepare students for the technical and theoretical aspects of a career in this field. Students acquire the professional skills of dose calculation, treatment design, and quality assurance through intensive classroom and clinical education under the supervision of educated and experienced Medical Dosimetrists, Physicists, and Radiation Oncologists.

The clinical education component of the program includes experience at other clinical affiliates. A well-balanced clinical experience is planned for each student, including daily and weekly quality assurance checks, two-dimensional external-beam treatment and brachytherapy planning, three-dimensional external-beam treatment planning, and intensity modulated radiation therapy treatment.

Mission Statement

The program will prepare clinically competent, patient focused, entry-level medical dosimetrists who are able to make a positive contribution to the healthcare community.

Goal: Students will be clinically prepared and competent.

Student Learning Outcomes:

- ✓ Students will create multiple treatment plans in both simulated and actual clinical settings.
- ✓ Students will take an active role in their clinical rotation.

Goal: Students will develop critical thinking and problem solving skills.

Student Learning Outcomes:

- ✓ Students will discuss and evaluate various case studies related to the field.
- ✓ Students will practice quality assurance by detecting and correcting plan errors.

Goal: Students will demonstrate communication skills.

Student Learning Outcomes:

- ✓ Students will engage in oral presentations.
- ✓ Students will demonstrate clear and concise written communication skills.

Goal: Students will be team oriented and exemplify professional behavior.

Student Learning Outcomes:

- ✓ Students will demonstrate the ability to work and communicate in a group setting.
- ✓ Students will model professional and courteous behavior with faculty, staff, and peers.

Goal: Students will demonstrate professional planning practices

Student Learning Outcomes:

- ✓ Students will demonstrate knowledge of common toxicities by body site.
- ✓ Students will demonstrate a clear understanding of the effects of radiation on the human body.
- ✓ Students will evaluate plan parameters to ensure optimal patient care.

Program Application Requirements

- ✓ Letters of reference
- ✓ Official transcripts from all higher education institutions
- ✓ Personal statement letter
- ✓ Copies of TOEFL or IELTS scores, if applicable
- ✓ Online application and \$35.00 application fee

Program Admission Requirements

- ✓ Associate's degree (Associate's degree in a science related field preferred)
 - 24 Core credits required to be accepted for transfer (CMD Route). 20 core credits required to be accepted for transfer (non-CMD Route)
 - 36 General Education credits required to be accepted for transfer. There must be at least one general education course from each of the categories below:
 - Humanities
 - Social Sciences
 - Sciences
 - Mathematics
- ✓ A GPA of 2.0 (on a 4.0 scale) for the last degree earned. A 3.0 or higher (on a 4.0 scale) is preferred.
- ✓ If applicant's first language, or language of instruction, is not English, English proficiency examination scores are required. Test of English as a Foreign Language (TOEFL) minimum scores are 550 (paper-based) or 213 (computer-based) or 79 (internet-based). The International English Language Testing System (IELTS) minimum score required is 6.5. The PTE Academic minimum score required is 53.
- ✓ Interview with JPU representative
- ✓ Personal statement
- ✓ Three Letters of Reference
- ✓ Students who have not completed a college-level math course must pass the MATH190 Placement Test or complete the MATH190 course
- ✓ Applicants who are not current certified medical dosimetrists (CMDs) must have their clinical internship site identified in order to be admitted into the Medical Dosimetry program. The site must confirm an anticipated internship start date within the student's second semester. One of the following criteria must be met to consider a clinical site identified:
 - The clinical site is one of JPU's JRCERT recognized clinical sites
 - The student provides written intent to participate by submitting the Intent to Participate Form.
 - Demonstrates a commitment from the clinical site by submitting the following clinical site recognition paperwork: JRCERT Form 104MD or the Training Affiliation Agreement.

MATH190 Placement Test

Procedure

Define a proctor (typically a local library or University proctor services) and provide the fax or email information to JPU at info@Rtuvt.edu. The correspondence needs to include the day and time you plan to take the test. The test and proctor sheet will be provided to the proctor. Once the test is complete, the proctor will email or fax the test and proctor sheet to JPU.

Email: info@Rtuvt.edu

Fax: 574.232.2200

Test Instructions

The student has 2 hours to complete the test. The student may utilize any resources they like and a calculator. The student must show all of their work. Answers without work will be considered incomplete.

The test includes four sections. Sections and points possible per section are outlined below. In order to pass the placement test, the student must earn a minimum of 75% on each section as well as 80% for an overall test score.

Sections:

1. Geometry and Trigonometry: Questions 1-4 (30 points possible)
2. Linear and Quadratic Functions: Questions 5-8 (30 points possible)
3. Exponential and Logarithmic Functions: Questions 9-10 (30 points possible)
4. Scientific Notation and the Metric System: Question 11 (10 points possible)

Program Graduation Requirements

- ✓ Earn a cumulative program GPA of 2.0 or above on a 4.0 scale
- ✓ Earn a minimum of 61 program credits including earning credit for all courses listed as core courses
- ✓ Meet all published paperwork and competency requirements for the clinical internship, yielding a grade of "Pass"

Upon completion, the following credential will be awarded: Bachelor of Science in Medical Dosimetry

Clinical Obligations (Non-CMD Route)

Some Clinics may require different student clinical obligations such as drug screening, immunization records, and background checks, these items are performed at the students expense. Clinics that prefer to do their own testing and verification may do so directly with the student. JPU may be asked to perform these services and provide the results to the clinic upon their request.

Due to availability of clinical sites and student schedules, travel may be necessary in order to secure an appropriate clinical site. JPU resolves to make every effort to place student in a location that is within a reasonable distance from their place of residence.

Students may propose a clinical site closer to their place of residence than is currently available. In this instance, the University prefers to receive notice 5-6 months in advance for the purposes of communicating with the clinical site and securing paperwork. Students typically start their clinical internship hours during the second semester of their program. Students are expected to serve as a liaison between the University and the clinical setting.

Should a proposed site prove unsuitable, the student may propose another site or choose from sites currently available.

Evening/weekend clinical assignments are not required or encouraged. If measures must be taken in order to ensure adequate clinical time, proposals will be considered and must be agreeable to the student, University and clinical site.

Clinical Internship Completion Policy

The Medical Dosimetry program requires prompt completion of the clinical internship concurrently with didactic instruction as outlined by the Joint Review Committee on Education in Radiologic Technology (JRCERT). Students are expected to begin their clinical internship during the second semester of the program and average approximately 12-15 hours per week for completion of the required 720 hours no later than their last semester of didactic instruction.

Students are required to submit their internship journal including all required paperwork outlined in the Clinical Guidance for Students document no later than thirty (30) days after completion of the 720 hours. At any point prior to clinical journal submission, the student is still enrolled in the clinical internship.

Tuition for the clinical internship is charged during the last semester of didactic instruction. Failure to complete the internship hours or submit the clinical journal within the timeframe outlined in this policy will result in tuition for the clinical internship being charged to the student's account each semester the student is enrolled in the clinical internship after didactic instruction is complete.

Students who are unable to start their internship during the second semester of the program or maintain minimum hours per week outlined by this policy due to unforeseen circumstances beyond the control of student will not automatically be subject to tuition being charged for each semester the student is enrolled in the clinical internship after didactic instruction is complete. The President and Program Director will address unforeseen circumstances on a case-by-case basis.

Program Objectives:

- ✓ Prepare clinically competent graduates
- ✓ Demonstrate communication skills
- ✓ Develop critical thinking skills
- ✓ Model professionalism

Certification

Graduates are not required to attain licensure as a Medical Dosimetrist. Graduates will be eligible to take the certification examination through the Medical Dosimetry Certification Board (MDCB) once John Patrick University of Health and Applied Sciences is approved by the Joint Review Committee on Education in Radiologic Technology (JRCERT). The Bachelor of Science in Medical Dosimetry program was designed to meet competency requirements outlined by JRCERT.

John Patrick University of Health and Applied Sciences' BS Medical Dosimetry and MS Medical Dosimetry programs are accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). All students are encouraged to review the JRCERT Standards for an accredited education program in Medical Dosimetry located at www.jrcert.org/programs-faculty/jrcert-standards/.

JRCERT

20 N. Wacker Drive, Suite 2850

Chicago, IL 60606-3182

Phone: (312) 704-5300

Fax: (312) 704-5304

www.jrcert.org

mail@jrcert.org

Program Details: Non-Certified Medical Dosimetrists (non-CMD)

Required Credit hours: 120*

Program Duration: 2 years (67 weeks)

Program Tuition: \$34,134 (\$533.34 per credit)

Curriculum

Core Courses (64/120 credits required)*

Transfer	General Education Credits*	(36 credits)
Transfer	Core Credits*	(20 credits)
MD301	Radiation Dosimetry	(3 credits)
MD303	Introduction to Imaging	(3 credits)
MD302	Radiation Biology	(3 credits)
MD305	Radiation Therapy I	(3 credits)
MD306	Radiation Therapy II	(3 credits)
MHP308	Health Physics & Radiation Safety	(3 credits)
MD304	Brachytherapy	(3 credits)
MD390	Medical & Professional Ethics	(1 credit)
BIOL301	Human Anatomy & Physiology	(4 credits)
MD310	Treatment Planning I	(3 credits)
MD311	Treatment Planning II	(3 credits)
MD410	Treatment Planning III	(3 credits)
MD411	Treatment Planning IV	(3 credits)
MD320	Clinical Rotation I	(4 credits)
MD321	Clinical Rotation II	(4 credits)
MD420	Clinical Rotation III	(4 credits)
MD421	Clinical Rotation IV	(4 credits)
MD495	Capstone	(3 credits)
MD499	Clinical Internship	(4 credits)

Elective Courses (1 course required)

MD351	Introduction to Medical Physics	(3 credits)
MD352	Imaging Anatomy	(3 credits)
MATH201	Calculus I	(3 credits)
MD205	Introduction to Radiation Therapy Planning ^A	(3 credits)
MD403	Advanced Imaging	(3 credits)
MD405	Alternative Modalities-Proton Therapy	(3 credits)

^AMandatory course for students entering the program without a Radiation Therapy background

Sample Plan of Study

Semester 1	
Treatment Planning I	3cr
Clinical Rotation I	4cr
Radiation Therapy I	3cr
Imaging Anatomy	3cr

Semester 2	
Treatment Planning II	3cr
Clinical Rotation II	4cr
Radiation Therapy II	3cr
Health Physics/Radiation Safety	3cr

Human Anatomy & Physiology	4cr
	17cr

Radiation Biology	3cr
	16cr

Semester 3	
Treatment Planning III	3cr
Clinical Rotation III	4cr
Medical and Professional Ethics	1cr
Brachytherapy	3cr
Introduction to Imaging	3cr
	14cr

Semester 4	
Treatment Planning IV	3cr
Clinical Rotation IV	4cr
Radiation Dosimetry	3cr
Capstone	3cr
Clinical Internship	4cr
	17cr

Program Details: Current Certified Medical Dosimetrists (CMD)

Required Credit hours: 120*

Program Duration: 2 years (67 weeks)

Program Tuition: 32,000 (\$533.34 per credit)

Curriculum

Core Courses (60/120* credits required)

Transfer	General Education Credits*	(36 credits)
Transfer	Core Credits*	(24 credits)
MD301	Radiation Dosimetry	(3 credits)
MD303	Introduction to Imaging	(3 credits)
MD302	Radiation Biology	(3 credits)
MD305	Radiation Therapy I	(3 credits)
MD306	Radiation Therapy II	(3 credits)
MHP308	Health Physics & Radiation Safety	(3 credits)
MD304	Brachytherapy	(3 credits)
MD390	Medical & Professional Ethics	(1 credit)
BIOL301	Human Anatomy & Physiology	(4 credits)
MD310	Treatment Planning I	(3 credits)
MD311	Treatment Planning II	(3 credits)
MD410	Treatment Planning III	(3 credits)
MD411	Treatment Planning IV	(3 credits)
MD320	Clinical Rotation I	(4 credits)
MD321	Clinical Rotation II	(4 credits)
MD420	Clinical Rotation III	(4 credits)
MD421	Clinical Rotation IV	(4 credits)
MD497	Capstone	(3 credits)

Elective Courses (1 course required)

MD351	Introduction to Medical Physics	(3 credits)
MD352	Imaging Anatomy	(3 credits)
MATH201	Calculus I	(3 credits)
MD205	Introduction to Radiation Therapy Planning ^A	(3 credits)
MD403	Advanced Imaging	(3 credits)
MD405	Alternative Modalities-Proton Therapy	(3 credits)

^A Mandatory course for students entering the program without a Radiation Therapy background

Sample Plan of Study

Semester 1	
Treatment Planning I	3cr
Clinical Rotation I	4cr
Radiation Therapy I	3cr
Imaging Anatomy	3cr
Human Anatomy & Physiology	4cr
	17cr

Semester 2	
Treatment Planning II	3cr
Clinical Rotation II	4cr
Radiation Therapy II	3cr
Health Physics/Radiation Safety	3cr
Radiation Biology	3cr
	16cr

Semester 3	
Treatment Planning III	3cr
Clinical Rotation III	4cr
Medical and Professional Ethics	1cr
Brachytherapy	3cr
Introduction to Imaging	3cr
	14cr

Semester 4	
Treatment Planning IV	3cr
Clinical Rotation IV	4cr
Radiation Dosimetry	3cr
Capstone	3cr
	13cr

Bachelor of Science in Radiation Therapy

Non-Licensed Radiation Therapists

The radiation therapy education program is designed to prepare students for an entry-level position in Radiation Therapy by providing an understanding of the technical and theoretical aspects of their chosen to advance in their profession. Students acquire the professional skills of dose calculation, treatment delivery, and quality assurance through intensive classroom and clinical education under the supervision of educated, experienced, and credentialed Radiation Therapists, Medical Dosimetry, Physicists, and Radiation Oncologists.

The clinical education component of the program includes experience at clinical affiliates. Clinical rotations are administered during each year of academic instruction. A well-balanced clinical experience is planned for each student, including interacting with patients and delivering radiation therapy using linear accelerators and brachytherapy. Students will also practice planning treatment using two-dimensional external-beam treatment and brachytherapy planning, three-dimensional external-beam treatment planning, and intensity modulated radiation therapy.

Clinical Obligations

Some Clinics may require different student clinical obligations such as drug screening, immunization records, and background checks, these items are performed at the students expense. Clinics that prefer to do their own testing and verification may do so directly with the student. JPU may be asked to perform these services and provide the results to the clinic upon their request.

Due to availability of clinical sites and student schedules, travel may be necessary in order to secure an appropriate clinical site. JPU resolves to make every effort to place student in a location that is within a reasonable distance from their place of residence.

Students may propose a clinical site closer to their place of residence that is currently available. In this instance, the University prefers to receive notice 5-6 months in advance for the purpose of communicating with the clinical site and securing paperwork. Students typically start their clinical internship hours during the second semester of their program. Students are expected to serve as a liaison between the University and the clinical setting.

Should a proposed site prove unsuitable, the student may propose another site or choose from sites currently available.

Evening/weekend clinical assignments are not required or encouraged. If measures must be taken in order to ensure adequate clinical time, proposals will be considered and must be agreeable to the student, University and clinical site.

Certification

Graduates are expected to attain licensure as a registered radiation therapist demonstrated through successful completion of the American Registry of Radiologic Technologists (ARRT) examination in radiation therapy. Graduates are eligible to take the ARRT examination in Radiation Therapy since ACCSC is recognized by the ARRT. The Radiation Therapy program was designed to meet competency requirements outlined by the ARRT.

Licensed Radiation Therapists

The radiation therapy education program is designed to prepare current therapists to expand their knowledge in the technical and theoretical aspects of their chosen career. Students acquire the professional skills of dose calculation, treatment delivery, and quality assurance through an intensive curriculum developed and delivered by educated, experienced, and credentialed Radiation Therapists, Medical Dosimetrists, Physicists, and Radiation Oncologists.

Upon successful completion of the BS Radiation Therapy program:

- ✓ Students will provide clinically competent care to patients
- ✓ Students will demonstrate critical thinking and problem solving skills
- ✓ Students will display effective communication skills
- ✓ Students will demonstrate professional work standards
- ✓ The program will meet the needs of its students and the healthcare organizations it serves

Program Objectives:

- ✓ Prepare clinically competent graduates
- ✓ Demonstrate communication skills
- ✓ Develop critical thinking skills
- ✓ Model professionalism

Program Application Requirements

- ✓ Letters of reference
- ✓ Official transcripts from all higher education institutions
- ✓ Personal statement letter

- ✓ Copies of TOEFL or IELTS scores, if applicable
- ✓ On line application and \$35.00 application fee

Program Admission Requirements

- ✓ Associate's Degree (Associate of Science degree preferred)
 - 24 technical/occupational (100-200 level) credits required to be accepted for transfer.
 - 36 General Education (100-200 level) credits required to be accepted for transfer.There must be at least one general education course from each of the categories below:
 - Humanities
 - Social Sciences
 - Sciences
 - Mathematics
- ✓ A GPA of 2.0 (on a 4.0 scale) for the last degree earned. A 3.0 or higher (on a 4.0 scale) is preferred.
- ✓ If applicant's first language, or language of instruction, is not English, English proficiency examination scores are required. Test of English as a Foreign Language (TOEFL) minimum scores are 550 (paper-based) or 213 (computer-based) or 79 (internet-based). The International English Language Testing System (IELTS) minimum score required is 6.5. The PTE Academic minimum score required is 53.
- ✓ The student must pass the MATH190 Placement Test or complete the MATH190 course
- ✓ Interview with JPU representative
- ✓ Personal statement
- ✓ Three Letters of Reference

MATH190 Placement Test

Procedure

Define a proctor (typically a local library or University proctor services) and provide the fax or email information to JPU at info@Rtuvt.edu. The correspondence needs to include the day and time you plan to take the test. The test and proctor sheet will be provided to the proctor. Once the test is complete, the proctor will email or fax the test and proctor sheet to JPU.

Email: info@Rtuvt.edu

Fax: 574.232.2200

Test Instructions

The student has 2 hours to complete the test. The student may utilize any resources they like and a calculator. The student must show all of their work. Answers without work will be considered incomplete.

The test includes four sections. Sections and points possible per section are outlined below. In order to pass the placement test, the student must earn a minimum of 75% on each section as well as 80% for an overall test score.

Sections:

1. Geometry and Trigonometry: Questions 1-4 (30 points possible)
2. Linear and Quadratic Functions: Questions 5-8 (30 points possible)

3. Exponential and Logarithmic Functions: Questions 9-10 (30 points possible)
4. Scientific Notation and the Metric System: Question 11 (10 points possible)

Program Graduation Requirements

- ✓ Earn a cumulative program GPA of 2.0 or above on a 4.0 scale.
- ✓ Earn a minimum of 64 program credits including earning credit for all courses listed as core Courses
- ✓ Meet all published paperwork and competency requirements for the clinical internship, yielding a grade of “Pass”

Upon completion, the following credential will be awarded: Bachelor of Science in Radiation Therapy.

Program Details

Required Credit hours: 124

Program Duration: 2 years (67 weeks)

Program Tuition: \$34,134 (\$533.34 per credit)

Curriculum

Core Courses (64/124 credits required)*

All Students

Transfer	General Education Credits	(36 credits)
Transfer	Core Credits	(24 credits)
RS300	Orientation to Advanced Modalities	(1 credit)
RS306	Patient Care in Advanced Modalities	(3 credits)
BIOL352	Imaging and Sectional Anatomy	(4 credits)
MI310	Pathophysiology	(3 credits)
RS312	Radiation Physics	(3 credits)
RS390	Ethics and Law for Advanced Modalities	(3 credits)
RS302	Radiation Biology and Protection	(3 credits)
MI330	Leadership and Communication	(3 credits)
RS314	Pharmacology	(3 credits)
RS316	Professionalism and Workplace Experience	(2 credits)
RTT305	Principles and Practices of Radiation Therapy I	(3 credits)
RTT306	Principles and Practices of Radiation Therapy II	(3 credits)
RTT410	Physics and Treatment Planning	(2 credits)
RTT301	Clinical Oncology I	(3 credits)
RTT311	Clinical Oncology II	(3 credits)
RTT414	Physics and QA in Radiation Therapy	(2 credits)
RTT403	Professional Practice	(1 credit)
RTT435	Research Methods and Capstone	(2 credits)

Courses to be taken only by non-licensed Radiation Therapists

RTT300	Orientation to Radiation Therapy	(1 credit)
RTT420	Clinical Practice I	(8 credits)
RTT421	Clinical Practice II	(8 credits)

Courses to be taken only by licensed Radiation Therapists

RS404	Communication and Information Management	(3 credits)
RS318	Productivity and Assessment in Radiation Sciences	(3 credits)
RTT400	Advanced Radiation Therapy Techniques	(3 credits)
RTT431	Advanced Patient Care in Oncologic Medicine	(3 credits)
RTT436	Special Procedures in Dosimetry	(3 credits)
RTT440	Clinical Quality Improvement and Accreditation	(2 credits)

Sample Plan of Study for Non-Licensed Radiation Therapists

Semester 1	
Orientation to Advanced Modalities	1
Patient Care in Advanced Modalities	3
Imaging and Sectional Anatomy	4
Leadership and Communication	3
Radiation Physics	3
	14cr

Semester 2	
Pathophysiology	3
Ethics & Law for Advanced Modalities	3
Radiation Biology & Protection	3
Pharmacology	3
Professional & Workplace Experience	2
	14cr

Semester 3	
Orientation to Radiation Therapy	1
Prin/Prac of Radiation Therapy I	3
Clinical Oncology I	3
Physics and QA in Radiation Therapy	2
Clinical Practice I	8
Professional Practice	1
	18cr

Semester 4	
Prin/Prac of Radiation Therapy II	3
Clinical Oncology II	3
Physics and Treatment Planning	2
Research Methods and Capstone	2
Clinical Practice II	8
	18cr

Sample Plan of Study for Licensed Radiation Therapists

Semester 1	
Orientation to Advanced Modalities	1
Patient Care in Advanced Modalities	3
Imaging and Sectional Anatomy	4
Leadership and Communication	3
Radiation Physics	3
	14cr

Semester 2	
Pathophysiology	3
Ethics & Law for Advanced Modalities	3
Radiation Biology & Protection	3
Pharmacology	3
Professional & Workplace Experience	2
	14cr

Semester 3	
Communication and Information Mgmt.	3
Prin/Prac of Radiation Therapy I	3
Clinical Oncology I	3
Physics and QA in Radiation Therapy	2
Adv. Radiation Therapy Techniques	3
Adv. Patient Care in Oncologic Med.	3
Professional Practice	1
	18cr

Semester 4	
Prin/Prac of Radiation Therapy II	3
Clinical Oncology II	3
Physics and Treatment Planning	2
Research Methods and Capstone	2
Prod. & Assess. In Radiation Sciences	3
Special Procedures in Dosimetry	3
Clinical QI and Accreditation	2
	18cr

Bachelor of Science in Radiologic Science

This program is for the certified clinical radiologic science professional whose goal is to move into a leadership position in the profession. The goal of this program is to nurture and expand the student's leadership, management, and critical thinking skills for growth in radiologic science professions. The Bachelor of Science in Radiologic Science degree is a 16-month program designed for the working professional. This program is delivered entirely through distance education.

Program Objectives

- ✓ Students will demonstrate clinical management skills
- ✓ Students will demonstrate critical thinking and problem solving skills
- ✓ Students will display effective communication skills
- ✓ Students will demonstrate understanding of clinical quality improvement
- ✓ The program will meet the needs of its students and the healthcare organizations it serves

The fulfillment of our mission and goals through an integrated curriculum insures students attain the following learning outcomes:

- ✓ Broad, fundamental technical knowledge
- ✓ Written and verbal communication skills
- ✓ Professional judgement and capability to think critically
- ✓ Practical experience in solving problems
- ✓ The ability to work independently
- ✓ Professional ethics allowing the student to productively and successfully work in a variety of healthcare settings
- ✓ The ability to conduct research

Program Application Requirements

- ✓ Letters of reference
- ✓ Official transcripts from all higher education institutions
- ✓ Personal statement letter
- ✓ Copies of TOEFL or IELTS scores, if applicable
- ✓ On line application and \$35.00 application fee

Program Admission Requirements

- ✓ Associate's Degree
 - 24 technical/occupational (100-200 level) credits required to be accepted for transfer.
 - 36 General Education (100-200 level) credits required to be accepted for transfer.
 - There must be at least one general education course from each of the categories below:
 - Humanities
 - Social Sciences
 - Sciences
 - Mathematics
 - Applicants who may not meet this requirement may be conditionally accepted into the program and enroll in technical or general education courses that would meet the admissions requirements through JPU.
- ✓ A GPA of 2.0 (on a 4.0 scale) for the last degree earned. A 3.0 or higher (on a 4.0 scale) is preferred.
- ✓ If applicant's first language, or language of instruction, is not English, English proficiency examination scores are required. Test of English as a Foreign Language

(TOEFL) minimum scores are 550 (pBT) or 213 (cBT) or 79 (iBT). The International English Language Testing System (IELTS) minimum score required is 6.5. The PTE Academic minimum score required is 53.

- ✓ Interview with JPU representative
- ✓ Personal statement
- ✓ Three Letters of Reference

Program Graduation Requirements

- ✓ Earn a cumulative program GPA of 2.0 or above on a 4.0 scale.
- ✓ Earn a minimum of 60 program credits including earning credit for all courses listed as core Courses

Upon completion, the following credential will be awarded: Bachelor of Science in Radiologic Science.

Program Details

Required Credit hours: 60 (120*)

Program Duration: 2 years (67 weeks)

Program Tuition: \$32,000

Rate per Credit: \$533.34

*24 technical/occupational credits will be accepted for transfer and 36 General Education credits will be accepted for transfer. There must be at least one general education course from each of the four categories: Humanities, Social Sciences, Sciences, and Mathematics.

Curriculum

Core Courses (120 credits required)

Transfer	General Education Credits	(36 credits)
Transfer	Technical/Occupational Credits	(24 credits)
RS300	Orientation to Advanced Modalities	(1 credit)
RS306	Patient Care in Advanced Modalities	(3 credits)
BIOL352	Imaging and Sectional Anatomy	(4 credits)
MI310	Pathophysiology	(3 credits)
RS312	Radiation Physics	(3 credits)
RS390	Ethics and Law for Advanced Modalities	(3 credits)
RS302	Radiation Biology and Protection	(3 credits)
MI330	Leadership and Communication	(3 credits)
RS314	Pharmacology	(3 credits)
RS316	Professionalism and Workplace Experience	(2 credits)
RS400	Orientation to Leadership	(1 credit)
RS402	Human Resource Management	(3 credits)
RS406	Generational Leadership	(2 credits)
RS408	Conflict Resolution	(2 credits)
RS410	Billing, Coding and Accreditation	(3 credits)
RS412	Virtual Leadership Practicum	(3 credits)
RS418	Fiscal and Budgetary Management	(3 credits)
RS420	Professional Leadership Practice	(3 credits)
RS422	Operational and Organizational Theories	(3 credits)
RS424	Research Methods and Capstone	(3 credits)
RS404	Communication and Information Management	(3 credits)

RS318 Productivity and Assessment in Radiation Sciences (3 credits)

Sample Plan of Study

Semester 1	
Orientation to Advanced Modalities	1
Patient Care in Advanced Modalities	3
Imaging and Sectional Anatomy	4
Leadership and Communication	3
Radiation Physics	3
	14cr

Semester 2	
Pathophysiology	3
Ethics & Law for Advanced Modalities	3
Radiation Biology and Protection	3
Pharmacology	3
Professional & Workplace Experience	2
	14cr

Semester 3	
Orientation to Leadership	1
Communication and Information Mgmt.	3
Human Resource Management	3
Prod. & Assess. In Radiation Sciences	3
Fiscal and Budgetary Mgmt.	3
Operational & Organizational Theories	3
	16cr

Semester 4	
Generational Leadership	2
Conflict Resolution	2
Billing, Coding and Accreditation	3
Virtual Leadership Practicum	3
Professional Leadership Practice	3
Research Methods and Capstone	3
	16cr

Bachelor of Science in Medical Imaging

The BS in Medical Imaging prepares students to practice competently and effectively as medical imaging professionals in diverse healthcare environments. The academic and clinical foundation in the curriculum develops graduates with professional flexibility and adaptability to assume prominent roles and responsibilities after graduation in both career and scholarly pursuits.

The fulfillment of our mission and goals through an integrated curriculum insures students attain the following learning outcomes:

1. Obtain a level of clinical competence appropriate for an entry-level medical imaging professional.
2. Possess critical thinking skills to adapt to changing clinical environments and patient needs.
3. Exhibit professionalism through consistent ethical behavior.
4. Demonstrate communication skills for effective communication with patients, families, and other healthcare providers.

Students progress through the curriculum and meet course learning objectives that culminate in the accomplishment of the above learning outcomes.

Program Application Requirements

- ✓ 3 letters of reference
- ✓ Curriculum Vitae/Résumé
- ✓ Official transcripts from all higher education institutions
- ✓ Personal statement letter
- ✓ Copies of TOEFL or IELTS scores, if applicable

- ✓ Application
- ✓ \$35.00 application fee (non-refundable)

Program Admission Requirements (all specializations)

- ✓ Associate's Degree (Associate of Science degree preferred)
 - 30 technical/occupational (100-200 level) credits required to be accepted for transfer.
 - 30 General Education (100-200 level) credits required to be accepted for transfer.
There must be at least one general education course from each of the categories below:
 - Humanities
 - Social Sciences
 - Sciences
 - Mathematics
 - Applicants who may not meet this requirement may be conditionally accepted into the program and enroll in technical or general education courses that would meet the admissions requirements through RTU.
- ✓ A GPA of 2.0 (on a 4.0 scale) for the last degree earned. A 3.0 or higher (on a 4.0 scale) is preferred.
- ✓ If applicant's first language, or language of instruction, is not English, English proficiency examination scores are required. Test of English as a Foreign Language (TOEFL) minimum scores are 550 (pBT) or 213 (cBT) or 79 (iBT). The International English Language Testing System (IELTS) minimum score required is 6.5. The PTE Academic minimum score required is 53.
- ✓ Interview with RTU representative
- ✓ Personal statement
- ✓ Three Letters of Reference

Program Prerequisites (all specializations)

- ✓ Human Anatomy and Physiology I
- ✓ Human Anatomy and Physiology II
- ✓ Algebra
- ✓ Oral communication course
- ✓ Written communication course

Program Prerequisites (Nuclear Medicine specialization)

- ✓ General Physics I
- ✓ Chemistry

Program Graduation Requirements

- ✓ Earn a cumulative program GPA of 2.0 or above on a 4.0 scale
- ✓ Earn a minimum of 60 program credits including earning credit for all courses listed as core courses
- ✓ Meet all published paperwork and competency requirements for the clinical internship, yielding a grade of "Pass"

Upon completion of the core and required specialization courses, the following credential will be awarded:

- ✓ Bachelor of Science in Medical Imaging with Specialization in Magnetic Resonance Imaging

- ✓ Bachelor of Science in Medical Imaging with Specialization in Computed Tomography
- ✓ Bachelor of Science in Medical Imaging with Specialization in Sonography
- ✓ Bachelor of Science in Medical Imaging with Specialization in Nuclear Medicine

Program Details

Required Credit hours: 60 (120*)

Program Duration: 2 years (67 weeks)

Program Tuition: \$32,000

Rate per Credit: \$533.34

*30 (100-200 level) technical/occupational credits will be accepted for transfer and 30 (100-200 level) General Education credits will be accepted for transfer. There must be at least one general education course from each of the four categories: Humanities, Social Sciences, Sciences, and Mathematics.

Curriculum

Core Courses (36 credits required)

RS300	Orientation to Advanced Modalities	(1 credit)
RS306	Patient Care in Advanced Modalities	(3 credits)
BIOL352	Imaging and Sectional Anatomy	(4 credits)
MI310	Pathophysiology	(3 credits)
RS312	Radiation Physics	(3 credits)
RS390	Ethics and Law for Advanced Modalities	(3 credits)
RS302	Radiation Biology and Protection	(3 credits)
MI330	Leadership and Communication	(3 credits)
RS314	Pharmacology	(3 credits)
RS316	Professionalism and Workplace Experience	(2 credits)
RS403	Professional Practice	(1 credit)
RS435	Research Methods and Capstone	(2 credits)
RS420	Clinical Practice I	(5 credits)

Nuclear Medicine Specialization (24 credits required)

NM400	Orientation to Nuclear Medicine	(1 credit)
NM406	Diagnostic and Therapeutic Procedures I	(2 credits)
NM407	Diagnostic and Therapeutic Procedures II	(2 credits)
NM408	Instrumentation, QC, and QA	(3 credits)
NM414	Radiopharmacy and Pharmacology	(3 credits)
NM424	Radiation Safety in Nuclear Medicine	(2 credits)
NM421	Clinical Practice II	(11 credits)

Sonography Specialization (24 credits required)

US400	Orientation to Sonography	(1 credit)
US406	Sonographic Procedures and Studies I	(2 credits)
US407	Sonographic Procedures and Studies II	(2 credits)
US408	Sonographic Physics and Instrumentation I	(2 credits)
US409	Sonographic Physics and Instrumentation II	(2 credits)
US401	Anatomy and Physiology for Sonography	(3 credits)
US415	Understanding Ergonomic Principles	(1 credit)
US421	Clinical Practice II	(11 credits)

Computed Tomography Specialization (24 credits required)

RS404	Communication and Information Management	(3 credits)
RS318	Productivity and Assessment in Radiation Sciences	(3 credits)
CT400	Orientation to Computed Tomography	(1 credit)
CT406	CT Procedures	(4 credits)
CT408	CT Instrumentation and Imaging Physics	(4 credits)
CT412	CT Anatomy and Pathology Correlation	(3 credits)
CT414	Planar and Volumetric Post-Processing	(3 credits)
CT416	Advanced Techniques in CT	(3 credits)

Magnetic Resonance Imaging Specialization (24 credits required)

RS404	Communication and Information Management	(3 credits)
RS318	Productivity and Assessment in Radiation Sciences	(3 credits)
MR400	Orientation to MRI	(1 credit)
MR406	MRI Procedures	(4 credits)
MR408	MRI Instrumentation, Imaging Physics, and Safety	(4 credits)
MR412	MRI Anatomy and Pathology Correlation	(3 credits)
MR414	Pulse Sequences, Image Formation and Contrast	(3 credits)
MR416	Advanced Techniques in MRI	(3 credits)

Sample Plan of Study: Nuclear Medicine Specialization

Semester 1		Semester 2	
Orientation to Advanced Modalities	1cr	Pathophysiology	3cr
Patient Care in Advanced Modalities	3cr	Ethics and Law for Advanced Modalities	3cr
Imaging and Sectional Anatomy	4cr	Radiation Biology and Protection	3cr
Radiation Physics	3cr	Pharmacology	3cr
Leadership and Communication	3cr	Professionalism and Workplace Experience	2cr
	14cr		14cr

Semester 3		Semester 4	
Orientation to Nuclear Medicine	1cr	Diagnostic and Therapeutic Procedures II	2cr
Diagnostic and Therapeutic Procedures I	2cr	Professional Practice	1cr
Instrumentation, QC, and QA	3cr	Research Methods and Capstone	2cr
Radiation Safety in Nuclear Medicine	2cr	Clinical Practice II	11cr
Radiopharmacy and Pharmacology	3cr		
Clinical Practice I	5cr		
	16cr		16cr

Sample Plan of Study: Sonography Specialization

Semester 1		Semester 2	
Orientation to Advanced Modalities	1cr	Pathophysiology	3cr
Patient Care in Advanced Modalities	3cr	Ethics and Law for Advanced Modalities	3cr
Imaging and Sectional Anatomy	4cr	Radiation Biology and Protection	3cr
Radiation Physics	3cr	Pharmacology	3cr
Leadership and Communication	3cr	Professionalism and Workplace Experience	2cr
	14cr		14cr
Semester 3		Semester 4	
Orientation to Sonography	1cr	Sonographic Procedures & Studies II	2cr
Sonographic Procedures & Studies I	2cr	Sonographic Physics & Instrumentation II	2cr
Sonographic Physics & Instrumentation I	2cr	Professional Practice	1cr
Anatomy & Physiology for Sonography	3cr	Research Methods and Capstone	2cr
Understanding Ergonomic Principles	1cr	Clinical Practice II	11cr
Clinical Practice I	5cr		
	14cr		18cr

Sample Plan of Study: Computed Tomography Specialization

Semester 1		Semester 2	
Orientation to Advanced Modalities	1cr	Pathophysiology	3cr
Patient Care in Advanced Modalities	3cr	Ethics and Law for Advanced Modalities	3cr
Imaging and Sectional Anatomy	4cr	Radiation Biology and Protection	3cr
Radiation Physics	3cr	Pharmacology	3cr
Leadership and Communication	3cr	Professionalism and Workplace Experience	2cr
	14cr		14cr
Semester 3		Semester 4	
Orientation to Computed Tomography	1cr	Communication and Information Mgmt.	3cr
CT Procedures	4cr	Productivity & Assessment in Radiation Sciences	3cr
CT Anatomy and Pathology Correlation	3cr	Advanced Techniques in CT	3cr
CT Instrumentation and Imaging Physics	4cr	Professional Practice	1cr
Planar and Volumetric Post-Processing	3cr	Research Methods and Capstone	2cr
		Clinical Practice I	5cr
	15cr		17cr

Sample Plan of Study: Magnetic Resonance Imaging Specialization

Semester 1		Semester 2	
Orientation to Advanced Modalities	1cr	Pathophysiology	3cr
Patient Care in Advanced Modalities	3cr	Ethics and Law for Advanced Modalities	3cr
Imaging and Sectional Anatomy	4cr	Radiation Biology and Protection	3cr
Radiation Physics	3cr	Pharmacology	3cr
Leadership and Communication	3cr	Professionalism and Workplace Experience	2cr
	14cr		14cr

Semester 3		Semester 4	
Orientation to MRI	1cr	Communication and Information Mgmt.	3cr
MRI Procedures	4cr	Productivity & Assessment in Radiation Sciences	3cr
MRI Instrumentation, Imaging Physics and Safety	4cr	Advanced Techniques in MRI	3cr
MRI Anatomy and Pathology Correlation	3cr	Professional Practice	1cr
Pulse Sequences, Imaging Formation and Contrast	3cr	Research Methods and Capstone	2cr
		Clinical Practice I	5cr
	15cr		17cr

Associate of Science in Radiologic Technology

The Associate of Science in Radiologic Technology is designed to prepare students to enter the profession of radiologic technology. The program is structured to provide students with basic concepts and competencies to work as a radiologic technologist in the healthcare environment. This is accomplished through didactic education in patient care, radiographic procedures, medical ethics and law, radiation biology, as well as radiation safety and protection. In addition, students learn mastery of the required skill sets during their structured clinical rotations in the clinical setting.

The fulfilment of our mission and goals through an integrated curriculum insures students attain the following learning outcomes:

- ✓ Students will display effective management and communication skills, both verbal and written
- ✓ Students will demonstrate critical thinking and problem-solving skills
- ✓ Students will demonstrate the ability to prioritize safety and patient care
- ✓ Students will demonstrate professional work standards
- ✓ Students will acquire the professional tools and experience for an entry level position in radiologic technology

Students progress through the curriculum and meet course learning objectives that culminate in the accomplishment of the above learning outcomes.

Program Application Requirements

- ✓ 3 letters of reference

- ✓ Curriculum Vitae/Résumé
- ✓ Official transcripts from all higher education institutions
- ✓ Personal statement letter
- ✓ Copies of TOEFL or IELTS scores, if applicable
- ✓ Application
- ✓ \$35.00 application fee (non-refundable)

Program Admission Requirements

- ✓ High School Diploma with a GPA of 2.0 (on a 4.0 scale) for the last degree earned. A 3.0 or higher (on a 4.0 scale) is preferred.
- ✓ If applicant's first language, or language of instruction, is not English, English proficiency examination scores are required. Test of English as a Foreign Language (TOEFL) minimum scores are 550 (pBT) or 213 (cBT) or 79 (iBT). The International English Language Testing System (IELTS) minimum score required is 6.5. The PTE Academic minimum score required is 53.
- ✓ Interview with RTU representative
- ✓ Personal statement
- ✓ Three Letters of Reference

Program Graduation Requirements

- ✓ Earn a cumulative program GPA of 2.0 or above on a 4.0 scale
- ✓ Earn a minimum of 60 program credits including earning credit for all courses listed as core courses
- ✓ Meet all published paperwork and competency requirements for the clinical internship, yielding a grade of "Pass"

Upon completion of the core and required specialization courses, the following credential will be awarded: Associate of Science in Radiologic Technology.

Program Details

Required Credit hours: 60

Program Duration: 2 years (67 weeks)

Program Tuition: \$32,000

Rate per Credit: \$533.34

Curriculum

BIOL150	Anatomy & Physiology I	(3 credits)
BIOL155	Anatomy & Physiology II	(3 credits)
SCI120	Nutrition*	(3 credits)
MATH105	Algebra I	(3 credits)
MATH106	Algebra II	(3 credits)
SOC105	Introduction to Sociology	(3 credits)
SOC107	Introduction to Psychology	(3 credits)
HUM109	English Composition	(3 credits)
HUM111	Fundamentals of Public Speaking	(3 credits)
HUM113	Information Systems/Computer Science	(3 credits)
SCI115	Medical Terminology	(1 credit)

RTE100	Patient Care in Radiologic Sciences	(1 credit)
RTE110	Radiographic Procedures I	(2 credits)
RTE210	Radiographic Procedures II	(2 credits)
RTE212	Radiographic Procedures III	(2 credits)
RTE120	Medical Ethics and Law	(1 credit)
RTE214	Radiologic Physics & Production	(3 credits)
RTE115	Introduction to Imaging Principles	(1 credit)
RTE216	Digital Imaging	(1 credit)
RTE220	Advanced Modalities	(1 credit)
RTE218	Radiation Biology and Protection	(2 credits)
RTE222	Radiography Review and Capstone	(1 credit)
RTE150	Clinical Practice I	(4 credits)
RTE250	Clinical Practice II	(4 credits)
RTE251	Clinical Practice III	(4 credits)

Sample Plan of Study

Semester 1	
Anatomy & Physiology I	3cr
Algebra I	3cr
Medical Terminology	1cr
Radiation Biology and Protection	2cr
English Composition	3cr
Medical Ethics and Law	1cr
Patient Care in Radiologic Sciences	1cr
	14cr

Semester 2	
Anatomy & Physiology II	3cr
Algebra II	3cr
Fundamentals of Public Speaking	3cr
Radiographic Procedures I	2cr
Clinical Practice I	4cr
	15cr

Semester 3	
Introduction to Sociology	3cr
Information Systems/Computer Science	3cr
Radiographic Procedures II	2cr
Introduction to Imaging Principles	1cr
Radiologic Physics and Production	3cr
Clinical Practice II	4cr
	16cr

Semester 4	
Introduction to Psychology	3cr
Radiographic Procedures III	2cr
Digital Imaging	1cr
Advanced Modalities	1cr
Radiography Review and Capstone	1cr
Nutrition	3cr
Clinical Practice III	4cr
	15cr

Proton Therapy Certificate

The Proton Therapy Certificate is a distance education program with a clinical internship component that prepares students to practice competently and effectively as radiation therapy professionals in diverse healthcare environments. The academic and clinical foundation in the curriculum develops graduates with professional flexibility and adaptability to assume prominent roles and responsibilities after graduation in both career and scholarly pursuits.

The fulfillment of our mission and goals through an integrated curriculum insures students attain the following learning outcomes:

1. Obtain a level of clinical competence appropriate for an entry-level medical imaging professional.
2. Possess critical thinking skills to adapt to changing clinical environments and patient needs.
3. Exhibit professionalism through consistent ethical behavior.
4. Demonstrate communication skills for effective communication with patients, families, and other healthcare providers.

Students progress through the curriculum and meet course learning objectives that culminate in the accomplishment of the above learning outcomes.

Program Application Requirements

- ✓ 3 letters of reference
- ✓ Curriculum Vitae/Résumé
- ✓ Official transcripts from all higher education institutions
- ✓ Personal statement letter
- ✓ Copies of TOEFL or IELTS scores, if applicable
- ✓ Application
- ✓ \$35.00 application fee (non-refundable)

Proton Therapy Certificate Program Admission Requirements

- ✓ Must hold a current credential from The American Registry of Radiologic Technologists (ARRT) in Radiation Therapy
- ✓ If applicant's first language, or language of instruction, is not English, English proficiency examination scores are required. Test of English as a Foreign Language (TOEFL) minimum scores are 550 (paper-based) or 213 (computer-based) or 79 (internet-based). The International English Language Testing System (IELTS) minimum score required is 6.5. The PTE Academic minimum score required is 53
- ✓ Interview with JPU representative
- ✓ Personal statement

Program Graduation Requirements

- ✓ Earn a cumulative program GPA of 2.0 or above on a 4.0 scale
- ✓ Earn a minimum of 20 program credits including earning credit for all courses listed as core courses
- ✓ Meet all published paperwork and competency requirements for the clinical internship, yielding a grade of "Pass"

Upon completion of the core and required specialization courses, the following credential will be awarded: Proton Therapy Certificate

Program Details

Required Credit hours: 18

Program Duration: 1 year (34 weeks)

Program Tuition: \$9,600

Rate per Credit: \$533.34

Curriculum

Core Courses (18 credits required)

PR400 Orientation to Proton Therapy (1 credit)

PR406	Therapeutic Procedures in Proton Therapy	(3 credits)
PR414	Physical Properties of Protons	(3 credits)
PR408	Machine Safety and QA	(3 credits)
PR412	Oncology and Pathology	(3 credits)
PR421	Clinical Practice	(5 credits)

Sample Plan of Study: Proton Therapy Certificate

Semester 1		Semester 2	
Orientation to Proton Therapy	1cr	Machine Safety and QA	3cr
Oncology and Pathology	3cr	Therapeutic Procedures in Proton Therapy	3cr
Physical Properties of Protons	3cr	Clinical Practice	5cr
	7cr		11cr

Computed Tomography Certificate

The Computed Tomography Certificate is a distance education program with a clinical internship component that prepares students to practice competently and effectively as medical imaging professionals in diverse healthcare environments. The academic and clinical foundation in the curriculum develops graduates with professional flexibility and adaptability to assume prominent roles and responsibilities after graduation in both career and scholarly pursuits.

The fulfillment of our mission and goals through an integrated curriculum insures students attain the following learning outcomes:

1. Obtain a level of clinical competence appropriate for an entry-level medical imaging professional.
2. Possess critical thinking skills to adapt to changing clinical environments and patient needs.
3. Exhibit professionalism through consistent ethical behavior.
4. Demonstrate communication skills for effective communication with patients, families, and other healthcare providers.

Students progress through the curriculum and meet course learning objectives that culminate in the accomplishment of the above learning outcomes.

Program Application Requirements

- ✓ 3 letters of reference
- ✓ Curriculum Vitae/Résumé
- ✓ Official transcripts from all higher education institutions
- ✓ Personal statement letter
- ✓ Copies of TOEFL or IELTS scores, if applicable
- ✓ Application
- ✓ \$35.00 application fee (non-refundable)

CT Certificate Program Admission Requirements

- ✓ Must possess one of the following
 - Holds a credential from The American Registry of Radiologic Technologists (ARRT) in Radiography, Radiation Therapy, or Nuclear Medicine

- Holds a credential from the Nuclear Medicine Technology Certification Board (NMTCB)
- ✓ If applicant's first language, or language of instruction, is not English, English proficiency examination scores are required. Test of English as a Foreign Language (TOEFL) minimum scores are 550 (paper-based) or 213 (computer-based) or 79 (internet-based). The International English Language Testing System (IELTS) minimum score required is 6.5. The PTE Academic minimum score required is 53
- ✓ Interview with JPU representative
- ✓ Personal statement

Program Graduation Requirements

- ✓ Earn a cumulative program GPA of 2.0 or above on a 4.0 scale
- ✓ Earn a minimum of 20 program credits including earning credit for all courses listed as core courses
- ✓ Meet all published paperwork and competency requirements for the clinical internship, yielding a grade of "Pass"

Upon completion of the core and required specialization courses, the following credential will be awarded: Computed Tomography Certificate

Program Details

Required Credit hours: 20

Program Duration: 1 year (34 weeks)

Program Tuition: \$10,667

Rate per Credit: \$533.34

Curriculum

Core Courses (20 credits required)

CT400	Orientation to Computed Tomography	(1 credit)
CT406	CT Procedures	(4 credits)
CT408	CT Instrumentation and Imaging Physics	(4 credits)
CT412	CT Anatomy and Pathology Correlation	(3 credits)
CT414	Planar and Volumetric Post-Processing	(3 credits)
CT421	Clinical Practice	(5 credits)

Sample Plan of Study: Computed Tomography Certificate

Semester 1		Semester 2	
Orientation to Computed Tomography	1cr	CT Anatomy and Pathology Correlation	3cr
CT Instrumentation and Imaging Physics	4cr	Planar and Volumetric Post-Processing	3cr
CT Procedures	4cr	Clinical Practice	5cr
	9cr		11cr

Magnetic Resonance Imaging Certificate

The Magnetic Resonance Imaging Certificate is a distance education program with a clinical internship component that prepares students to practice competently and effectively as medical imaging professionals in diverse healthcare environments. The academic and clinical foundation in the curriculum develops graduates with professional flexibility and adaptability to assume prominent roles and responsibilities after graduation in both career and scholarly pursuits.

The fulfillment of our mission and goals through an integrated curriculum insures students attain the following learning outcomes:

1. Obtain a level of clinical competence appropriate for an entry-level medical imaging professional.
2. Possess critical thinking skills to adapt to changing clinical environments and patient needs.
3. Exhibit professionalism through consistent ethical behavior.
4. Demonstrate communication skills for effective communication with patients, families, and other healthcare providers.

Students progress through the curriculum and meet course learning objectives that culminate in the accomplishment of the above learning outcomes.

Program Application Requirements

- ✓ 3 letters of reference
- ✓ Curriculum Vitae/Résumé
- ✓ Official transcripts from all higher education institutions
- ✓ Personal statement letter
- ✓ Copies of TOEFL or IELTS scores, if applicable
- ✓ Application
- ✓ \$35.00 application fee (non-refundable)

MRI Certificate Program Admission Requirements

- ✓ Must possess one of the following
 - Holds a credential from The American Registry of Radiologic Technologists (ARRT) in Radiography, Radiation Therapy, or Nuclear Medicine
 - Holds a credential from the Nuclear Medicine Technology Certification Board (NMTCB)
- ✓ If applicant's first language, or language of instruction, is not English, English proficiency examination scores are required. Test of English as a Foreign Language (TOEFL) minimum scores are 550 (paper-based) or 213 (computer-based) or 79 (internet-based). The International English Language Testing System (IELTS) minimum score required is 6.5. The PTE Academic minimum score required is 53
- ✓ Interview with JPU representative
- ✓ Personal statement

Program Graduation Requirements

- ✓ Earn a cumulative program GPA of 2.0 or above on a 4.0 scale
- ✓ Earn a minimum of 20 program credits including earning credit for all courses listed as core courses
- ✓ Meet all published paperwork and competency requirements for the clinical internship, yielding a grade of "Pass"

Upon completion of the core and required specialization courses, the following credential will be awarded: Magnetic Resonance Imaging Certificate

Program Details

Required Credit hours: 20

Program Duration: 1 year (34 weeks)

Program Tuition: \$10,667

Rate per Credit: \$533.34

Curriculum

Core Courses (20 credits required)

MR400	Orientation to MRI	(1 credit)
MR406	MRI Procedures	(4 credits)
MR408	MRI Instrumentation, Imaging Physics, and Safety	(4 credits)
MR412	MRI Anatomy and Pathology Correlation	(3 credits)
MR414	Pulse Sequences, Image Formation and Contrast	(3 credits)
MR421	Clinical Practice	(5 credits)

Sample Plan of Study: Magnetic Resonance Imaging Specialization

Semester 1		Semester 2	
Orientation to MRI	1cr	MRI Anatomy and Pathology Correlation	3cr
MRI Instrumentation, Imaging, Physics, and Safety	4cr	Pulse Sequences, Image Formation, and Contrast	3cr
MRI Procedures	4cr	Clinical Practice	5cr
	9cr		11cr

Positron Emission Tomography Certificate

The Positron Emission Tomography (PET) Certificate is a distance education program with a clinical internship component that prepares students to practice competently and effectively as medical imaging professionals in diverse healthcare environments. The academic and clinical foundation in the curriculum develops graduates with professional flexibility and adaptability to assume prominent roles and responsibilities after graduation in both career and scholarly pursuits.

The fulfillment of our mission and goals through an integrated curriculum insures students attain the following learning outcomes:

1. Obtain a level of clinical competence appropriate for an entry-level medical imaging professional.
2. Possess critical thinking skills to adapt to changing clinical environments and patient needs.
3. Exhibit professionalism through consistent ethical behavior.
4. Demonstrate communication skills for effective communication with patients, families, and other healthcare providers.

Students progress through the curriculum and meet course learning objectives that culminate in the accomplishment of the above learning outcomes.

Program Application Requirements

- ✓ 3 letters of reference
- ✓ Curriculum Vitae/Résumé
- ✓ Official transcripts from all higher education institutions
- ✓ Personal statement letter
- ✓ Copies of TOEFL or IELTS scores, if applicable
- ✓ Application
- ✓ \$35.00 application fee (non-refundable)

PET Certificate Program Admission Requirements

- ✓ Must possess one of the following
 - Holds a credential from The American Registry of Radiologic Technologists (ARRT) in Radiography, Radiation Therapy, or Nuclear Medicine
 - Holds a credential from the Nuclear Medicine Technology Certification Board (NMTCB)
- ✓ If applicant's first language, or language of instruction, is not English, English proficiency examination scores are required. Test of English as a Foreign Language (TOEFL) minimum scores are 550 (paper-based) or 213 (computer-based) or 79 (internet-based). The International English Language Testing System (IELTS) minimum score required is 6.5. The PTE Academic minimum score required is 53
- ✓ Interview with JPU representative
- ✓ Personal statement

Program Graduation Requirements

- ✓ Earn a cumulative program GPA of 2.0 or above on a 4.0 scale
- ✓ Earn a minimum of 20 program credits including earning credit for all courses listed as core courses
- ✓ Meet all published paperwork and competency requirements for the clinical internship, yielding a grade of "Pass"

Upon completion of the core and required specialization courses, the following credential will be awarded: Positron Emission Tomography Certificate

Program Details

Required Credit hours: 18

Program Duration: 1 year (34 weeks)

Program Tuition: \$9,600

Rate per Credit: \$533.34

Curriculum

Core Courses (18 credits required)

PET400	Orientation to Positron Emission Tomography	(1 credit)
PET406	PET Applications	(3 credits)
PET408	Physics and Instrumentation	(3 credits)

PET420	Radiopharmacology	(3 credits)
PET424	Quality Control and Protection	(3 credits)
PET421	Clinical Practice	(5 credits)

Sample Plan of Study: Positron Emission Tomography Certificate

Semester 1	
Orientation to PET	1cr
PET Applications	3cr
Radiopharmacology	3cr
	7cr

Semester 2	
Physics and Instrumentation	3cr
Quality Control and Protection	3cr
Clinical Practice	5cr
	11cr

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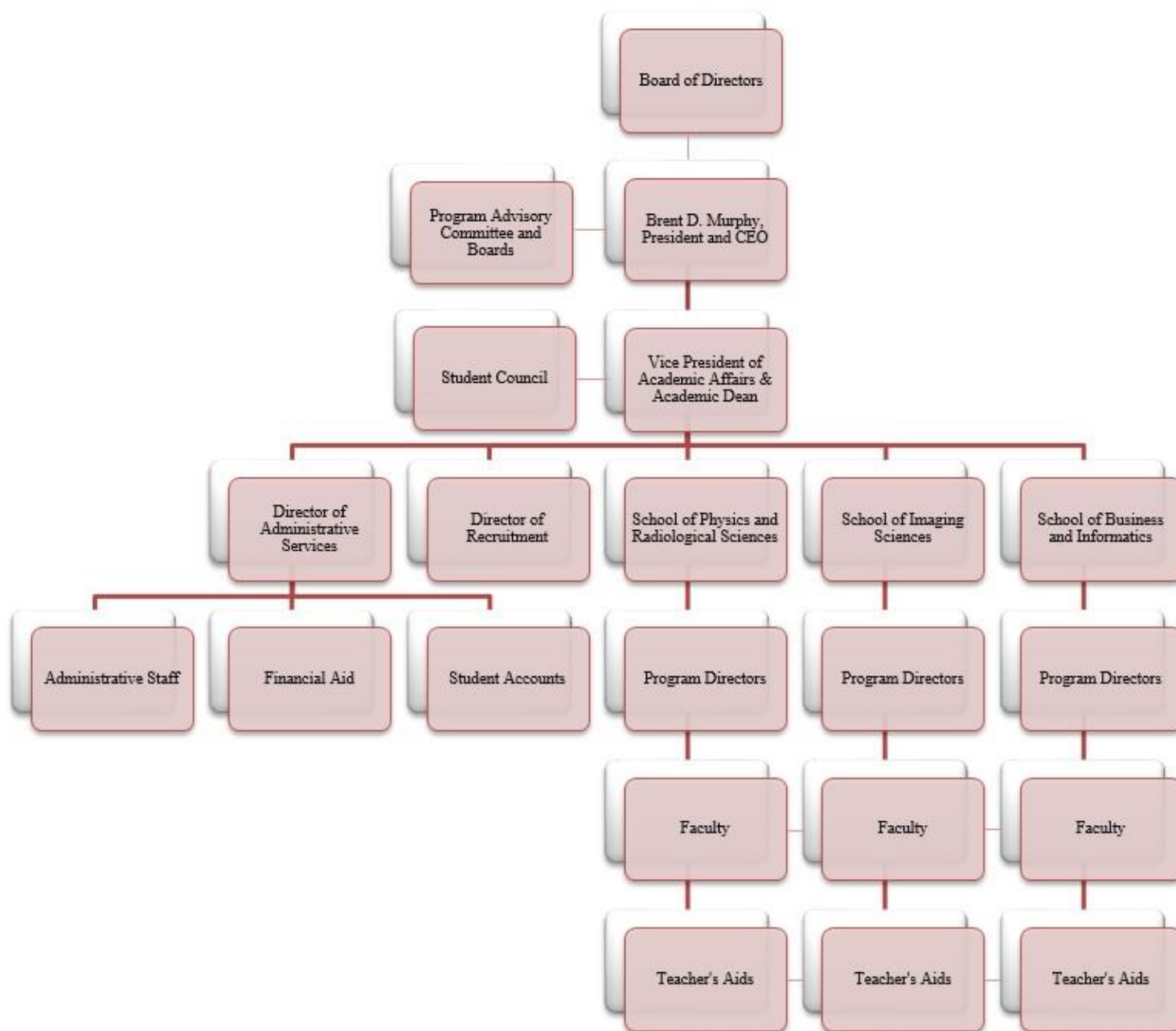
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Organizational Chart



JOHN PATRICK UNIVERSITY OF HEALTH AND APPLIED SCIENCES COURSE CATALOG

Course Numbering System Descriptions

MP	Medical Physics
MHP	Medical Health Physics
HP	Health Physics
MD	Medical Dosimetry
RTT	Radiation Therapy
RTE	Radiologic Technology
MR	Magnetic Resonance Imaging
CT	Computed Tomography
PET	Positron Emission Tomography
PR	Proton Therapy
BIOL	Biology courses
PHY	Physics courses
MATH	Mathematics
SCI	Sciences
MI	Medical Imaging
RS	Radiologic Science

100-299 Associate level

300-499 Bachelor level

500-699 Graduate level

Credit hour definition

One semester credit hour equals, at a minimum, forty-five (45) units between lecture hours, supervised lab hours, out-of-class work, or practicum hours*. The formula for calculating the number of semester hours for each course is (hours of lecture x 2 units) + (hours of supervised lab x 1.5 units) + (internship hours x 1 unit) + (out-of-class work x 0.5 units).

The University awards credit hours only, no clock hour to credit hour conversion is used.

*Dosimetry Program students who wish to be eligible to register for certification by the Medical Dosimetrist Certification Board (MDCB) must complete 720 internship hours as outlined by the Joint Review Committee on Education in Radiologic Technology (JRCERT). The Medical Dosimetry programs are accredited by the JRCERT.

UNDERGRADUATE COURSE DESCRIPTIONS

MD301

RADIATION DOSIMETRY

3 CREDITS

This course focuses on introducing radiation terminology used in radiation dosimetry. Fundamental dose calculation theories are reviewed and an emphasis is placed on clinical and radiation safety related dosimetry techniques.

MD302/RTT302

RADIATION BIOLOGY

3 CREDITS

This course focuses on introducing fundamental radiation biology concepts. Emphasis is placed on radiation interactions, cell damage, cell survival curves, cell sensitivity and response, factors affecting cell response, tissue kinetics, effects on the fetus, biological models, and radiobiological risk assessment.

MD303

INTRODUCTION TO IMAGING

3 CREDITS

This course focuses on introducing fundamental physics in the medical imaging profession. Fundamental concepts are applied to the system design of each imaging component presented. A special emphasis is placed on the implementation and application of each diagnostic imaging modality.

MD304

BRACHYTHERAPY

3 CREDITS

This course focuses on introducing fundamental radiation physics and safety of brachytherapy. Special emphasis is placed on both LDR and HDR brachytherapy.

MD305 / RTT305

RADIATION THERAPY I

3 CREDITS

This course focuses on applying the fundamental radiation oncology physics concepts to external beam radiation therapy. An emphasis is placed on understanding basic dosimetry quantities, dose calculation parameters, dose calculations, monitor unit calculations, instrumentation, and radiation generating equipment.

MD306

RADIATION THERAPY II

3 CREDITS

This course builds upon the fundamental ideas developed in Radiation Therapy I. A wide range of specialized topics are covered. The intent is to familiarize the student with a broad swath of special procedures encountered in radiation oncology, and to provide in-depth understanding of the most common of these special procedures. The course also covers the process of machine acceptance and commissioning, the use of this data by the operator of the treatment planning system, and how the system then uses that data to calculate doses from therapy devices. Emphasis throughout this course is placed on quality control and quality assurance.

Prerequisite: Radiation Therapy I (MD305)

MD390

MEDICAL AND PROFESSIONAL ETHICS

1 CREDIT

This course focuses on areas that require an understanding of medical ethics. Emphasis will be placed on patient data, patient records, publications, presentations, general professional conduct, medical malpractice, and research.

MHP308

HEALTH PHYSICS AND RADIATION SAFETY

3 CREDITS

This course focuses on introducing fundamental medical and health physics concepts for the Dosimetrist professional. Fundamental concepts of patient dosimetry, radiation effects in humans, and radiation protection are covered.

MD310

TREATMENT PLANNING I

3 CREDITS

This course focuses on the didactic component and clinical component of treatment planning preparation and isodose distribution. The concepts and factors affecting preparation and planning are reviewed and evaluated.

Prerequisite: one semester of Anatomy

MD311

TREATMENT PLANNING II

3 CREDITS

This course focuses on 3D treatment planning for the following body sites: Lung, prostate, breast, and head/neck. Emphasis is placed on patient positioning and immobilization, imaging, 3D geometry definition, treatment planning system functionality, treatment planning, dose verification, and terminology.

Prerequisite: Treatment Planning I (MD310)

MD410

TREATMENT PLANNING III

3 CREDITS

This course focuses on 3D treatment planning for the following body sites: Lung, prostate, breast, and head/neck. Emphasis is placed on patient positioning and immobilization, imaging, 3D geometry definition, treatment planning system functionality, treatment planning, dose verification, and terminology.

Prerequisite: Treatment Planning II (MD311)

MD411

TREATMENT PLANNING IV

3 CREDITS

This course focuses on 3D treatment planning for the following treatment modalities: IORT, Electron Arc, TBI X-ray, and TBE-Electron. Emphasis is placed on: Patient Positioning & Immobilization, Imaging, 3D Geometry Definition, Treatment Planning System Functionality, Treatment Planning, Dose Verification, Plan Verification, and Terminology.

Prerequisite: Treatment Planning III (MD410)

MD320

CLINICAL ROTATION I

4 CREDITS

This is a clinically oriented course with a focus on simulation, treatment planning techniques, and plan evaluation.

MD321

CLINICAL ROTATION II

4 CREDITS

This is a clinically oriented course with a focus on simulation, treatment planning techniques, and plan evaluation.

Prerequisite: Clinical Rotation I (MD320)

MD420

CLINICAL ROTATION III

4 CREDITS

This is a clinically oriented course with a focus on simulation, treatment planning techniques, and plan evaluation.

Prerequisite: Clinical Rotation II (MD321)

MD421

CLINICAL ROTATION IV

4 CREDITS

This is a clinically oriented course with a focus on simulation, treatment planning techniques, and plan evaluation.

Prerequisite: Clinical Rotation III (MD420)

MD495

CAPSTONE (non-CMD)

3 CREDITS

This course will include a comprehensive review of content in medical dosimetry. It is designed to assist the student in preparing for the national certification examination in medical dosimetry. It is also designed to prepare the B.S. student to enter the workforce. This course is Pass/Fail and should be taken by the non-certified medical dosimetry student.

MD497

CAPSTONE (CMDs)

3 CREDITS

This course is designed to be the culminating course for the Bachelor of Science candidate who has already achieved their national certification in medical dosimetry. Included will be a clinical project with a clinical journal and 180 hours of clinical experience required. The course will also include submission of a literature review on a medical dosimetry topic.

MD499

CLINICAL INTERNSHIP

4 CREDITS

The student participates in a clinical internship. The internship is designed to give the student laboratory/clinical instruction in specific areas of medical physics and dosimetry practice. The student keeps a daily journal of their progress on each of the course competencies, to include not only assigned calculations and discussion but also relevant notes and observations on clinical practice.

This course is worth 4 credit hours. Students can expect 720 hours of clinical time consisting of a maximum of 16 hours per week spent in the clinical setting for 45 weeks. The specific schedule is determined between the Clinical Preceptor and student. The student can expect to spend some time outside of competency completion on prep work, case study, discussions, etc.

MD351

INTRODUCTION TO MEDICAL PHYSICS

3 CREDITS

This course serves as a basic introduction to the Medical Physics field, covering all four of its sub-specialties. The student will be introduced to radiation therapy, diagnostic imaging, nuclear medicine, and health physics/radiation safety. These topics will include measurement and calculation of radiation dose in humans, radiation biology, and modern technologies such as stereotactic radiosurgery and brachytherapy. Upon completing the course, the student will have a broad understanding of the widespread applications of physics in the medical field.

MD352

IMAGING ANATOMY

3 CREDITS

This course provides a detailed study of the central nervous system, thorax, abdomen, pelvis, and musculoskeletal system as demonstrated on magnetic resonance imaging and computed tomography. Anatomy will be demonstrated in transverse, sagittal, and coronal sectional imaging planes. Homework exercises and quizzes are provided weekly in order to prepare for the midterm and final examinations.

Prerequisite: one semester of Anatomy

MD205

INTRODUCTION TO RADIATION THERAPY PLANNING

3 CREDITS

This course will focus on treatment planning and dose calculations utilizing different types of treatment modalities as well as different field arrangements.

MD403

ADVANCED IMAGING

3 CREDITS

To provide students with the basic knowledge of advanced imaging technologies such as Computed Tomography (CT), Ultrasound (US), Magnetic Resonance Imaging (MRI), and Positron Emission Tomography (PET).

MD405

ALTERNATIVE MODALITIES-PROTON THERAPY

3 CREDITS

This course gives the student a background in the fundamental science underlying proton and heavy ion therapy. The radiological physics of these particles is treated first to give the student background necessary for the remainder of the course. The remainder of the course emphasizes the unique challenges faced with treatment planning for the various body sites to include: immobilization, simulation, contouring, planning, plan review, patient QA, IGRT, and proton treatment delivery.

RS300

ORIENTATION TO ADVANCED MODALITIES

1 CREDIT

This course will provide students with the basic knowledge of advanced imaging technologies such as Computed Tomography (CT), Ultrasound (US), Magnetic Resonance Imaging (MRI), and Positron Emission Tomography (PET).

RS306

PATIENT CARE IN ADVANCED MODALITIES

3 CREDITS

This course will focus on evidence-based nursing management of patients undergoing diagnostic or therapeutic radiation procedures. General patient management topics will also be addressed.

BIOL352

IMAGING AND SECTIONAL ANATOMY

4 CREDITS

This course provides a detailed study of the central nervous system, thorax, abdomen, pelvis, and musculoskeletal system as demonstrated on magnetic resonance imaging and computed tomography. Anatomy will be demonstrated in transverse, sagittal, and coronal sectional imaging planes. Homework exercises and quizzes are provided weekly in order to prepare for the midterm and final examinations.

MI310

PATHOPHYSIOLOGY

3 CREDITS

This course provides a detailed study of illness, pathology, and disease in the human body. Basic terminology used in pathology and disease management will be introduced. Classification and causes of disease in body systems including nervous, gastrointestinal, reproductive, circulatory, respiratory, and muscular will be discussed. Radiologic pathology will be emphasized.

RS312

RADIATION PHYSICS

3 CREDITS

This course serves as a basic introduction to the Medical Physics field, covering all four of its subspecialties. The student will be introduced to radiation therapy, diagnostic imaging, nuclear medicine, and health physics/radiation safety. These topics will include measurement and calculation of radiation dose in humans, radiation biology, and modern technologies. Upon completing this course, the student will have a broad understanding of the widespread applications of physics in the medical field.

RS390

ETHICS AND LAW FOR ADVANCED MODALITIES

3 CREDITS

This course provides an introduction to law and ethics concepts in the health care setting.

RS302

RADIATION BIOLOGY AND PROTECTION

3 CREDITS

This course focuses on introducing fundamental radiation biology and radiation protection concepts. Emphasis is placed on radiation interactions, cell damage, cell survival curves, cell sensitivity and response, factors affecting cell response, tissue kinetics, effects on the fetus, biological models, radiobiological risk assessment, and human radiation protection.

MI330

LEADERSHIP AND COMMUNICATION

3 CREDITS

Introductory course in understanding the characteristics of leadership, the different forms in which it appears, and how it is applied and communicated.

RS314

PHARMACOLOGY

3 CREDITS

This course will include an introduction to the biology of pharmacology and interventional pharmaceuticals. It will also focus on safety and the use of pharmaceuticals.

RS316

PROFESSIONALISM AND WORKPLACE EXPERIENCE

2 CREDITS

This course will introduce the learner to professional development, professional ethics, and workplace relationships. Emphasis will be placed on the healthcare work environment.

RS400

ORIENTATION TO LEADERSHIP

1 CREDIT

This course will introduce the skills required to manage and lead people in effective ways. This course is designed for those currently in management roles or those aspiring to be leaders.

RS402

HUMAN RESOURCE MANAGEMENT

3 CREDITS

This course will provide the techniques necessary for organizing businesses, hiring personnel and training individuals for a career.

RS404

COMMUNICATION AND INFORMATION MANAGEMENT

3 CREDITS

This course focuses on the study of information management. The course covers the background, history, issues, and barriers to communication and health information management. Topics include healthcare settings, the patient record, electronic health records, (EHRs), data collection standards, and legal aspects of health information.

RS406

GENERATIONAL LEADERSHIP

2 CREDITS

This course is designed to provide students with a new perspective on the generation gaps and generational differences that exist in healthcare today and their impact on the workplace.

RS408

CONFLICT RESOLUTION

2 CREDITS

This course introduces positive conflict management processes, including active listening and communication skills. Students will be introduced to the underlying models and practical skills involving mediation and conflict resolution in a healthcare setting.

RS410

BILLING, CODING, AND ACCREDITATION

3 CREDITS

Students learn that medical billing is a process to submit claims to those covering the cost of medical services or treatment. Also addressed is an introduction to medical coding in which a process of applying correct codes for medical diagnoses are incorporated into the medical record. Requirements and standards for institutional accreditation of healthcare organizations will also be covered in this course.

RS412

VIJPUAL LEADERSHIP PRACTICUM

3 CREDITS

The Leadership Practicum is an integral part of experiential learning for all radiation sciences students. This course will build upon core competencies and principles of radiation sciences leadership and management.

RS318

PRODUCTIVITY AND ASSESSMENT IN RADIATION SCIENCES

3 CREDITS

In this course, the student will be introduced to concepts of productivity and assessment in healthcare. This will include an understanding of health care productivity which typically defines output as spending on health care goods (e.g. drugs, hospital services, physician's services) deflated by an appropriate price index to get a real measure of output over time.

RS418

FISCAL AND BUDGETARY MANAGEMENT

3 CREDITS

This course will offer a wide range of valuable knowledge and skills to enable staff and organizations to operate more effectively. The course will provide students with the understanding of how to work more effectively across functional areas, reduce improper payments, make ethical decisions, and navigate healthcare organizations.

RS420

PROFESSIONAL LEADERSHIP PRACTICE

3 CREDITS

This course will provide simple and efficient ways to enhance key leadership skills. The course will explore leadership styles and the art of delivering feedback and constructive criticism; students will engage in tips and techniques for time-management, preventing burnout, and promoting recognition.

RS422

OPERATIONAL AND ORGANIZATIONAL THEORIES

3 CREDITS

Students will be introduced to a way of seeing, describing, analyzing, understanding, and improving organizations based on patterns of organizational design and behavior. This course will provide learners with models, principles, and methods with which to diagnose and fix organizational structure, design, and process problems.

RS424

RESEARCH METHODS AND CAPSTONE

3 CREDITS

This course focuses on introducing a variety of research methods in healthcare. Emphasis will be placed on defining the research problem, performing a review of current literature, designing and implementing research processes to answer to research questions, and evaluating research outcomes.

RTT300

ORIENTATION TO RADIATION THERAPY

1 CREDIT

This course is designed to provide the student with an overview of the foundations of radiation therapy and the practitioner's role in the health care delivery system.

RTT301

CLINICAL ONCOLOGY I

3 CREDITS

This course focuses on current clinical practice of radiation therapy for cancers of the skin, brain, head and neck, lung, and gastrointestinal tract.

RTT303

PROFESSIONAL PRACTICE

1 CREDIT

The goal of this course is to develop professionally sound radiation therapists who strive for excellence, are ethical, and are responsive and accountable to patients, community, and their profession.

RTT306

PRINCIPLES AND PRACTICES OF RADIATION THERAPY I

3 CREDITS

This course focuses on the technical aspects of patient setup for radiation treatment delivery to various anatomical sites.

RTT308

PRINCIPLES AND PRACTICES OF RADIATION THERAPY II

3 CREDITS

This course focuses on historic and current aspects of cancer treatment along with basic principles and practice of treatment and simulation.

Prerequisite: Principles and Practice of Radiation Therapy I (RTT306)

RTT311

CLINICAL ONCOLOGY II

3 CREDITS

This course focuses on current clinical practice of radiation therapy for cancers of the genitourinary, breast, lymphoreticular, musculoskeletal, hematopoietic, endocrine systems, and CNS, as well as pediatric cancers and benign masses.

Prerequisite: Clinical Oncology I (RTT301)

RTT414

PHYSICS AND QA IN RADIATION THERAPY

2 CREDITS

This course focuses on the clinical aspects of radiation therapy physics examining factors related to absorbed dose, calculation of dose from all sources of radiation, principles of treatment planning, and advanced technologies. Quality assurance and radiation safety in radiation oncology are will also be discussed.

RTT410

PHYSICS AND TREATMENT PLANNING

2 CREDITS

This course focuses on basic concepts of treatment planning utilized in radiation oncology. Basic calculations for patients undergoing radiation treatments will be emphasized.

RTT412

SPECIAL PROCEDURES IN DOSIMETRY

3 CREDITS

This course focuses on more complex techniques in planning a patient's radiation treatment. Various external beam and brachytherapy planning techniques are emphasized.

Prerequisite: Physics and Treatment Planning (RTT410)

RTT490

RESEARCH METHODS AND CAPSTONE

2 CREDITS

This course introduces a variety of research methods in healthcare and includes the design and implementation of research processes as well as evaluating research outcomes. This course also focuses on preparing students for registry examination, as well as necessary preparation steps for a successful job search and career development.

Prerequisites: Clinical Oncology I (RTT301), Clinical Oncology II (RTT311), Physics and Treatment Planning (RTT410), and Clinical Practice I (RTT420). Since this is the culminating course for the program, permission of the Instructor is required prior to enrolling in this course.

RTT400

ADVANCED RADIATION THERAPY TECHNIQUES

3 CREDITS

This course focuses on advanced technical aspects of patient setup and planning for radiation treatment delivery to various anatomical sites.

RTT431

ADVANCED PATIENT CARE IN ONCOLOGIC MEDICINE

3 CREDITS

This course focuses on evidence based nursing management of patients diagnosed with neoplastic diseases. General patient management topics will be addressed. Also, specific care needs of patients receiving radiation, chemotherapy, biologic therapy, and surgery will be presented.

RTT435

RESEARCH METHODS AND CAPSTONE

2 CREDITS

This course focuses on introducing a variety of research methods in healthcare and planning and/or implementing an evidence-based research study in radiation therapy. Emphasis will be placed on defining the research problem, performing a review of current literature, designing and implementing research processes to answer the research questions, and evaluating research outcomes.

RTT440

CLINICAL QUALITY IMPROVEMENT AND ACCREDITATION

2 CREDITS

This course focuses on evidence based clinical quality improvement initiatives. Requirements for accreditation by various radiation oncology department accrediting organizations will also be addressed.

RTT420

CLINICAL PRACTICE I

8 CREDITS

This clinical rotation is designed to provide clinical experiences in areas of radiation therapy simulation and treatment. The student will keep a daily journal of clinical experiences as well as complete clinical competencies on patients undergoing radiation therapy.

This course is worth 8 credit hours. Students can expect a minimum of 360 hours of work for this course. This consists of at least 360 hours (approximately 24 hours per week) spent in the clinical setting. Students should expect to spend additional time outside of the clinic on preparation work needed to ensure success.

RTT421

CLINICAL PRACTICE II

8 CREDITS

This clinical rotation is designed to provide clinical experiences in areas of radiation therapy simulation and treatment. The student will keep a daily journal of clinical experiences as well as complete clinical competencies on patients undergoing radiation therapy.

This course is worth 8 credit hours. Students can expect a minimum of 360 hours of work for this course. This consists of at least 360 hours (approximately 24 hours per week) spent in the clinical setting. Students should expect to spend additional time outside of the clinic on preparation work as needed to ensure success.

Prerequisite: Clinical Practice I (RTT420)

RS300

ORIENTATION TO ADVANCED MODALITIES

1 CREDIT

This course will provide students with the basic knowledge of advanced imaging technologies such as Computed Tomography (CT), Ultrasound (US), Magnetic Resonance Imaging (MRI), and Positron Emission Tomography (PET).

RS306

PATIENT CARE IN ADVANCED MODALITIES

3 CREDITS

This course will focus on evidence based nursing management of patients undergoing diagnostic or therapeutic radiation procedures. General patient management topics will also be addressed.

BIOL352

IMAGING AND SECTIONAL ANATOMY

4 CREDITS

This course provides a detailed study of the central nervous system, thorax, abdomen, pelvis, and musculoskeletal system as demonstrated through magnetic resonance imaging and computed tomography. Anatomy will be demonstrated in transverse, sagittal, and coronal sectional imaging planes.

MI1310

PATHOPHYSIOLOGY

3 CREDITS

This course provides a detailed study of illness, pathology, and disease in the human body. Basic terminology used in pathology and disease management will be introduced. Classification and causes of disease in body systems including nervous, gastrointestinal, reproductive, circulatory, respiratory, and muscular. Radiologic pathology will be emphasized.

RS312

RADIATION PHYSICS

3 CREDITS

This course serves as a basic introduction to the Medical Physics field, covering all four of its subspecialties. The student will be introduced to radiation therapy, diagnostic imaging, nuclear medicine, and health physics/radiation safety. These topics will include measurement and calculation of radiation dose in humans, radiation biology, and modern technologies. Upon completing the course, the student will have a broad understanding of the widespread applications of physics in the medical field.

RS390

ETHICS AND LAW FOR ADVANCED MODALITIES

3 CREDITS

This course provides an introduction to law and ethics concepts in the health care setting.

RS302

RADIATION BIOLOGY AND PROTECTION

3 CREDITS

This course focuses on introducing fundamental radiation biology and radiation protection concepts. Emphasis is placed on radiation interactions, cell damage, cell survival curves, cell sensitivity and

response, factors affecting cell response, tissue kinetics, effects on the fetus, biological models, radiobiological risk assessment, and human radiation protection.

MI330

LEADERSHIP AND COMMUNICATION

3 CREDITS

This is an introductory course in understanding the characteristics of leadership, the different forms in which it appears, and how it is applied and communicated.

RS314

PHARMACOLOGY

3 CREDITS

This course will include an introduction to the biology of pharmacology and interventional pharmaceuticals. It will also focus on safety and use of pharmaceuticals.

RS316

PROFESSIONAL AND WORKPLACE EXPERIENCE

2 CREDITS

This course will introduce the learner to professional development, professional ethics and workplace relationships. Emphasis will be placed on the healthcare work environment.

NM400

ORIENTATION TO NUCLEAR MEDICINE

1 CREDIT

Introductory course in nuclear medicine focusing on radionuclide sources, radiation detection equipment, radiopharmaceutical characteristics and their use in nuclear medicine procedures.

NM406

DIAGNOSTIC AND THERAPEUTIC PROCEDURES I

2 CREDITS

This course introduces principles and practices of common diagnostic and therapeutic procedures in nuclear medicine. Topics include anatomy and pathology, disease pathology, patient preparation, radiopharmaceutical administration, biodistribution and excretion, indications and contraindications, and basic acquisition and interpretation for the following nuclear medicine systems: musculoskeletal, cardiovascular, genitourinary, pulmonary, endocrine, central nervous, abscess, infection, inflammation and tumor imaging, and radionuclide therapy.

NM407

DIAGNOSTIC AND THERAPEUTIC PROCEDURES II

2 CREDITS

This course analyses and further develops concepts of diagnostic and therapeutic procedures in nuclear medicine, as well as the addition of infrequent procedures. Topics include developing current knowledge of anatomy and pathology, disease pathology, patient preparation, radiopharmaceutical usage and administration, biodistribution and excretion, indications and contraindications, and basic acquisition and interpretation, as well as further application of technical parameters, interventional drugs, data and image processing, recognition of artifacts, and mathematical calculations related to specific procedures. The nuclear medicine systems to be analyzed are: musculoskeletal, cardiovascular, genitourinary, pulmonary, endocrine, central nervous, abscess, infection, inflammation and tumor imaging, and radionuclide therapy.

NM408

INSTRUMENTATION

3 CREDITS

This course introduces the operating principles and quality guidelines of a variety of instruments used in nuclear medicine technology laboratories. Topics will include the application of the physical characteristics of radioactivity and radiation detection, and measurement of radiation. In addition, nuclear medicine counting equipment, measurement and image acquisition instruments, relevant patient care equipment, computer technology used in nuclear medicine clinical settings will be included topics. Furthermore, the course will explore data analysis and its application in department quality management programs and quality control standards for optimal equipment operation, patient safety, and outcomes.

NM420

RADIOPHARMACY AND PHARMACOLOGY

3 CREDITS

This course examines the fundamentals of radiopharmacy in Nuclear Medicine. Topics include radiopharmaceutical production, labeling, preparation and administration, and properties. Radiopharmaceutical laboratory operation, regulations, record retention, quality control, and radioactive waste disposal will be discussed. Students will be able to identify and apply these concepts to clinical applications in the laboratory and clinical setting.

NM424

RADIATION SAFETY AND NUCLEAR MEDICINE

2 CREDITS

This course introduces the fundamentals of radiation protection and the safe handling of radioactive materials. Topics examined include radiobiology, radioactive decay, storage and disposal of radioactive materials, the use of radiation monitoring instruments, and regulations regarding the use and safe handling of radioactive materials.

NM403

PROFESSIONAL PRACTICE

1 CREDIT

This course will introduce the learner to professional development, professional ethics, and workplace relationships in the nuclear medicine clinical setting. Emphasis will be placed on nuclear medicine professional practice and behavior.

NM435

RESEARCH METHODS AND CAPSTONE

2 CREDITS

This course focuses on introducing a variety of research methods in healthcare. Emphasis will be placed on defining the research problem, performing a review of current literature, designing and implementing research processes to answer the research questions, and evaluating research outcomes. Also included in the course is a comprehensive review of nuclear medicine concepts in preparation for the national board exam in nuclear medicine.

NM420

CLINICAL PRACTICE I

8 CREDITS

This is the first clinical rotation assigning students to supervised clinical experiences in nuclear medicine technology. This course is designed to provide the student with a better understanding of the central role of nuclear medicine in the diagnostic and therapeutic evaluation of patients through participation in clinical training. Students learn by assisting a certified nuclear medicine technologist in the performance of nuclear medicine procedures and related supplementary responsibilities.

Competency evaluations are performed to allow the student to demonstrate mastery of diagnostic and therapeutic procedures, basic patient care, and simple quality control of equipment.

NM421

CLINICAL PRACTICE II

8 CREDITS

This is the second and final clinical rotation assigning students to supervised clinical experiences in nuclear medicine technology. This course is designed to provide students with a better understanding of the central role of nuclear medicine in the diagnostic and therapeutic evaluation of patients through participation in clinical training. Students learn by assisting a certified nuclear medicine technologist in the performance of nuclear medicine procedures and related supplementary responsibilities.

Competency evaluations are conducted in performance of diagnostic and therapeutic procedures, basic patient care and simple quality control of equipment.

Prerequisite: Clinical Practice I (NM420)

US400

ORIENTATION TO SONOGRAPHY

1 CREDIT

This course provides the student with an introduction to the functions and basic procedures of ultrasound imaging. Basic ultrasound instrumentation and clinical terms will be introduced.

US406

SONOGRAPHIC PROCEDURES AND STUDIES I

2 CREDITS

This course will provide a foundation in abdominal organs, their relation and normal sonographic, presentation including physiologic processes, metabolic activity and functions and the importance of lab data. Included in the course will be topics related to pathologic patterns of abdominal organs including relation to sonographic appearance, physiologic changes, and lab findings. Anatomic variations will be presented as well. Neonatal encephalography and demonstration of anatomy and pathology of superficial structures (small parts) is addressed in the course.

US407

SONOGRAPHIC PROCEDURES AND STUDIES II

2 CREDITS

In this course, female pelvic and obstetrical ultrasound will be presented with focus on physiological processes affecting imaging, pathological processes, and sonographic appearance. Fetal anatomy, gestational age estimation, fetal anomaly detection, and intrauterine growth retardation will be addressed with focus on transabdominal and transvaginal techniques for assessing early intrauterine and ectopic pregnancies. Breast ultrasound techniques will also be presented in this course.

US408

SONOGRAPHIC PHYSICS AND INSTRUMENTATION I

2 CREDITS

In this course, the student will be introduced to physics of diagnostic medical sonography and correlation with instrumentation procedures. Included in the course will be a discussion of sound wave characteristics, matter-ultrasound interaction, and a basic algebraic review.

US409

SONOGRAPHIC PHYSICS AND INSTRUMENTATION II

2 CREDITS

In this course, the student will have an in-depth study of physics of diagnostic medical sonography and correlation with instrumentation procedures. Topics will include real-time ultrasound transducer characteristics, the ultrasound beam, and the imaging process. In addition, this course will address application of theoretical concepts in lab.

US401

ANATOMY AND PHYSIOLOGY FOR SONOGRAPHY

3 CREDITS

This course is designed to provide the student with an in-depth study of human anatomy and physiology as it relates to ultrasound studies.

US415

UNDERSTANDING ERGONOMIC PRINCIPLES

1 CREDIT

This course provides the student with the tools to incorporate ergonomic principles into their professional practice as a nuclear medicine technologist in the clinical setting.

US403

PROFESSIONAL PRACTICE

1 CREDIT

This course will introduce the learner to professional development, professional ethics, and workplace relationships in the ultrasound clinical setting. Emphasis will be placed on professional practice and behavior of the ultrasound technologist.

US435

RESEARCH METHODS AND CAPSTONE

2 CREDITS

This course focuses on introducing a variety of research methods in healthcare. Emphasis will be placed on defining the research problem, performing a review of current literature, designing and implementing research processes to answer the research questions, and evaluating research outcomes. Also included in the course is a comprehensive review of concepts and knowledge base required to practice as a sonographer. Students will also be instructed in standardized test taking skills and effective study habits for high stakes tests.

US420

CLINICAL PRACTICE I

8 CREDITS

This is the first clinical rotation assigning students to supervised clinical experiences in sonography. This course is designed to provide the student with a better understanding of the central role of

ultrasound in the evaluation of patients through participation in clinical training. Students learn by assisting a certified ultrasound technologist in the performance of ultrasound procedures and related supplementary responsibilities. Competency evaluations are performed to allow the student to demonstrate mastery of various ultrasound procedures, basic patient care, and simple quality control of equipment.

US421

CLINICAL PRACTICE II

8 CREDITS

This is the second clinical rotation assigning students to supervised clinical experiences in sonography. This course is designed to provide the student with a better understanding of the central role of ultrasound in the evaluation of patients through participation in clinical training. Students learn by assisting a certified ultrasound technologist in the performance of ultrasound procedures and related supplementary responsibilities. Competency evaluations are performed to allow the student to demonstrate mastery of various ultrasound procedures, basic patient care, and simple quality control of equipment.

RS404

COMMUNICATION AND INFORMATION MGMT.

3 CREDITS

This course focuses on the study of information management. The course covers the background, history, issues, and barriers to communication and health information management. Topics include healthcare settings, the patient record, electronic health records (EHRs), data collection standards, and legal aspects of health information.

RS410

BILLING, CODING AND ACCREDITATION

3 CREDITS

Students learn that medical billing is a process to submit claims to those covering the cost of medical services or treatment. Also addressed is an introduction to medical coding in which a process of applying correct codes for medical diagnoses are incorporated into the medical record. Requirements and standards for institutional accreditation of healthcare organizations will also be covered in this course.

RS318

PRODUCTIVITY AND ASSESSMENT IN RADIATION SCIENCES

3 CREDITS

In this course, the student will be introduced to concepts of productivity and assessment in healthcare. This will include an understanding of health care productivity which typically defines output as spending on health care goods (e.g. drugs, hospital services, physician's services) deflated by an appropriate price index to get a real measure of output over time.

CT400

ORIENTATION TO COMPUTED TOMOGRAPHY

1 CREDIT

This course provides the student with an introduction to the functions and basic procedures of computed tomography imaging as it is used in the healthcare setting. Basic CT instrumentation and clinical terms will be introduced.

CT406

CT PROCEDURES

4 CREDITS

This course will provide an understanding of clinical procedures in computed tomography. In addition, this course will also provide the student with an introduction to quality assurance procedures in computed tomography.

CT408

CT INSTRUMENTATION AND IMAGING PHYSICS

4 CREDITS

This course focuses on introducing fundamental physics in computed tomography. Included in the course is an overview of the history of CT, fundamentals of computers, scanning methods, and digital imaging.

CT412

CT ANATOMY AND PATHOLOGY CORRELATION

3 CREDITS

This course will address whole body cross-sectional anatomy and pathology. Also included will be an in-depth review of common CT pathology.

CT414

PLANAR AND VOLUMETRIC POST-PROCESSING

3 CREDITS

This course will focus on CT scanning methods and fundamentals of CT computers concentrating on imaging reconstruction.

CT416

ADVANCED TECHNIQUES IN CT

3 CREDITS

This course provides the student with an in-depth understanding of quality assurance in computed tomography. This course will also provide the student with an understanding of differences and similarities between various CT scanning equipment currently available on the market.

CT421

CLINICAL PRACTICE

5 CREDITS

This is a clinical experience course in which the student is assigned supervised clinical experiences in computed tomography. This course is designed to provide the student with a better understanding of the central role of CT in the evaluation of patients through participation in clinical training. Students learn by assisting a certified CT technologist in the performance of clinical procedures and related supplementary responsibilities. Competency evaluations are performed to allow the student to demonstrate mastery of various CT procedures, basic patient care, and simple quality control of equipment. This course includes advanced instruction and clinical application of imaging skills of the following: cardiac, abdomen, pediatric, special applications, image post processing, bariatric procedures, radiation therapy imaging, CT/PET, and imaging quality assurance. All CT procedures will be performed under the supervision of a registered CT technologist.

MR400

ORIENTATION TO MRI

1 CREDIT

This course provides the student with an introduction to the functions and basic procedures of magnetic resonance imaging as it is used in the healthcare setting. Basic MRI concepts, instrumentation, and clinical terms will be introduced.

MR406

MRI PROCEDURES

4 CREDITS

This course provides the student with an in-depth understanding of clinical procedures in MRI. This course will also provide the student with an understanding of responsible MRI imaging practices.

MR408

MRI INSTRUMENTATION, IMAGING PHYSICS, AND SAFETY

4 CREDITS

This course focuses on introducing fundamental physics in magnetic resonance imaging. Included in the course is an overview of the history of MRI, fundamentals of computers, scanning protocols, and digital imaging. Safety in the magnetic field will also covered in this course.

MR412

MRI ANATOMY AND PATHOLOGY CORRELATION

3 CREDITS

This course will address whole body anatomy and pathology seen in MRI scanning. Also included will be an in-depth review of common pathology seen in MRI.

MR414

PULSE SEQUENCES, IMAGE FORMATION AND CONTRAST

3 CREDITS

An overview of instrumentation, image formation, safety, contrast agents, and imaging sequences will be presented. In addition, common MRI exam protocols will be discussed.

MR416

ADVANCED TECHNIQUES IN MRI

3 CREDITS

This course provides the student with an in-depth understanding go quality assurance procedures in MRI. This course will also provide the student with an understanding of differences and similarities between various MRI imaging equipment currently available on the market.

MR421

CLINICAL PRACTICE

5 CREDITS

In this course, the student will participate in the clinical internship experience. This course focuses on the clinical application of imaging skills of the following: cardiac, retroperitoneum, pediatric, special applications, image post processing, perfusion, diffusion, spectroscopy, fMRI, and quality assurance. Competency demonstrations will be performed by the student to ensure mastery of various MRI procedures, basic patient care, simple quality control of equipment, and related supplementary responsibilities. All MRI procedures will be performed under the supervision of a registered MRI technologist.

PR400

ORIENTATION TO PROTON THERAPY

1 CREDIT

This course is designed to provide an overview of proton therapy and the professional role of a radiation therapist working in proton beam radiation therapy.

PR406

THERAPEUTIC PROCEDURES IN PROTON THERAPY

3 CREDITS

This course will provide the student with educational information regarding treatment sites, simulation, prescriptions and dose calculations, and treatment administration; students will also learn about patient interactions, assessment, documentation, and medical records management.

PR408

MACHINE SAFETY AND QA

3 CREDITS

This course will cover equipment and quality assurance principles, as well as machine components and operation in proton radiation therapy. Additionally, students will learn radiation protection and occupational radiation exposure concepts as related to proton radiation therapy.

PR412

ONCOLOGY AND PATHOLOGY

3 CREDITS

The student will learn about pathologies of disease commonly treated with proton radiation therapy including CNS, Head and Neck, Thorax, Breast, Abdomen/Pelvis, Reproductive, Skeletal, and others. A section on miscellaneous (Pediatrics and Ocular, etc.) will be included in this educational discussion.

PR414

PHYSICAL PROPERTIES OF PROTONS

3 CREDITS

This course is designed to educate students regarding radiation physics, including Bragg peak and entrance doses and methods of beam delivery in proton radiation therapy.

PR421

CLINICAL PRACTICE

5 CREDITS

This clinical rotation will assign students to supervised clinical experience in proton radiation therapy. This course is designed to provide the student with a better understanding of the central role of a radiation therapist working in proton therapy through participation in clinical training. Competency evaluations are performed to allow the student to demonstrate mastery of simulation and therapeutic procedures, basic patient care, and simple quality control of equipment.

PET400

ORIENTATION TO POSITRON EMISSION TOMOGRAPHY

1 CREDIT

This course provides an overview of Positron Emission Tomography (PET). The course includes information on the history of PET and molecular imaging. Patient care and an introduction to equipment is included.

PET406

PET APPLICATIONS

3 CREDITS

This course covers all PET/CT imaging procedures. Procedure indications, protocols, and image analysis are discussed for oncology, cardiac, and neurology applications.

PET408

PHYSICS AND INSTRUMENTATION

3 CREDITS

This course is an introduction to the basic principles of PET/CT instrumentation. PET physics is discussed as well as the design and operation of PET/CT equipment. Discussion on the components of the system including both hardware and software are included.

PET420

RADIOPHARMACOLOGY

3 CREDITS

The physical principles and production methods of PET radiopharmaceuticals is presented. The chemical, biologic, and physiologic properties for FDA approved PET radiopharmaceuticals is reviewed. Dosage requirements and calculations including pediatric calculations are discussed.

PET424

QUALITY CONTROL AND PROTECTION

3 CREDITS

The quality control program for PET/CT is discussed. Quality control on non-imaging equipment is included in this course. Radiation protection for technologists, patients, and the public are included.

PET421

CLINICAL PRACTICE

5 CREDITS

The clinical practicum in PET/CT includes training in a PET/CT department. The student receives instruction and participates in the performance of all types of PET/CT procedures, patient care, quality control, and radiation safety. Students are required to complete all clinical competency requirements.

BIOL150

ANATOMY & PHYSIOLOGY I

3 CREDITS

This course provides the student with an overview of human anatomy and physiology in the framework of organ systems. The course is aimed at an audience of non-physician medical professionals, and as a part of that end, the anatomical component of the course emphasizes cross-sectional anatomy as seen on planar and cross-sectional medical imaging such as CT, PET, and MRI images.

BIOL155

ANATOMY & PHYSIOLOGY II

3 CREDITS

This course is a continuation of Human Anatomy and Physiology concepts and focuses heavily on pathologies and/or physiological effects of radiation and commonly imaged/treated conditions.
Prerequisite: Anatomy & Physiology I (BIOL150)

SCI120
NUTRITION
3 CREDITS

This course introduces the student to the basic fundamentals of nutrition, including the micro and macronutrients found in food and how the body processes them. The relationship between diet and health is also discussed. Students will learn principles of planning a balanced diet and how to make healthier food choices.

SCI122
CHEMISTRY
3 CREDITS

This course provides a survey of basic facts and principles of general, organic and biochemistry. Topics include measurement, molecular structure, nuclear chemistry, solutions, acid-base chemistry, gas laws, and the structure, properties and reactions of major organic and biological groups. Upon completion, students should be able to demonstrate an understanding of fundamental chemical concepts.

MATH105
ALGEBRA I
3 CREDITS

This course reinforces and develops basic algebra skills. The instructional content will focus on rational expressions, exponents, order of operations, variables, equations and inequalities, and graphs of linear equations and inequalities in two variables, systems of linear equations, integer exponents, polynomial expressions, and factoring. All topics include applications and problem solving techniques.

MATH106
ALGEBRA II
3 CREDITS

This course teaches an introduction to linear algebra. Topics will include complex numbers, geometric vectors in two or three dimensions and their linear transformations, the algebra of matrices, determinants, and solutions of systems of equations, Eigen values and eigenvectors.

SOC105
INTRODUCTION TO SOCIOLOGY
3 CREDITS

This course provides a broad introduction to the field of sociology with an emphasis on the fundamental concepts of sociological study. Sociological perspectives will be emphasized to allow for critical analysis of research and theories pertaining to culture, society, inequalities in society, and social institutions.

SOC107
INTRODUCTION TO PSYCHOLOGY
3 CREDITS

This course provides a general introduction to psychology as the scientific study of behavior and the mind. Sample topics include the biological basis of behavior, sensation and perception, learning and cognition, emotion and motivation, development, abnormal behavior, personality, and social behavior.

HUM109

ENGLISH COMPOSITION

3 CREDITS

This course is designed to equip students with the foundational writing skills necessary to succeed in the academic and professional communities. In this course, students will be introduced to writing as a process, gain an understanding of the structure of an essay, learn editing and proofreading techniques, and become proficient in research and documentation methods. The primary focus of this course is writing development with integration of critical thinking, active reading, grammar and punctuation rules, and research documentation.

HUM111

FUNDAMENTALS OF PUBLIC SPEAKING

3 CREDITS

This course provides an introduction to the practical skill of public speaking to prepare students for success in academic and professional environments. In this course, students will engage in the public speaking process, learn techniques to overcome speaking anxiety and the use of visual aids, and gain an understanding of the development, organization, and research required to deliver effective speeches. This course will help students connect public speaking to their own lives and find ways to make meaningful and ethical connections with their audiences.

HUM113

INFORMATION SYSTEMS/COMPUTER SCIENCE

3 CREDITS

This course provides an introduction to computers and information systems. Hardware and software concepts will be discussed, along with programming, operating systems, cloud computing, system life cycle, communication, and security.

SCI115

MEDICAL TERMINOLOGY

1 CREDIT

This course will introduce the student to the basic concepts of medical terminology. Included will be an introduction to medical terms as related to body systems and organs in the human.

RTE100

PATIENT CARE IN RADIOLOGIC SCIENCES

1 CREDIT

This course provides an introduction to patients undergoing diagnostic or therapeutic radiation procedures. General patient management topics will also be discussed.

RTE110

RADIOGRAPHIC PROCEDURES I

2 CREDITS

This course includes terminology, principles, and procedures involved in routine radiographic positioning for demonstration of the chest, abdomen, upper extremities, and urinary and digestive system. Included is a review of radiographic anatomy on each procedure.

RTE210

RADIOGRAPHIC PROCEDURES II

2 CREDITS

This course includes principles and procedures involved in the radiographic positioning of the spinal column, pelvic girdle, upper extremities, lower extremities, and mobile and trauma radiography procedures. Included is a review of radiographic anatomy on each procedure.

Prerequisite: Radiographic Procedures I (RTE110)

RTE212

RADIOGRAPHIC PROCEDURES III

2 CREDITS

This course includes principles and procedures involved in radiographic positioning of the bony thorax, entire cranium, facial bones, and venipuncture. Included is a review of radiographic anatomy on each procedure.

Prerequisite: Radiographic Procedures II (RTE210)

RTE120

MEDICAL ETHICS AND LAW

1 CREDIT

This course will introduce the student to the basic concepts of medical ethics and law. Included will be an examination and discussion of bioethics of clinical cases.

RTE214

RADIOLOGIC PHYSICS AND PRODUCTION

3 CREDITS

This course focuses on applying the fundamental radiation physics concepts to radiographic procedures. Emphasis is placed on: Types of radiation, radiation interactions, radiation production, and characteristics of machines used to produce radiation.

RTE115

INTRODUCTION TO IMAGING PRINCIPLES

1 CREDIT

This course provides an introduction to the technology used in medical imaging. It covers the historical progression of radiologic technology from the discovery of x-rays to modern day advanced modalities. Basic concepts covered include x-ray generation, tubes, image receptors, and display. Also covered are Radiology department workflow and introduction to radiation protection, standards and personnel and patient protection and monitoring.

RTE216

DIGITAL IMAGING

1 CREDIT

This course covers all of the elements of image production including x-ray absorption, transmission, scattering, detector absorption and digital image formation. It covers the history of image receptor development from photographic plates and film leading to a thorough discussion of the various digital receptor technologies used for both planar and tomographic imaging. It also covers Computed Radiography and Direct Digital Radiography. The basics of image reconstruction and display are introduced and discussed. Included are basic principles used to acquire, process, manipulate and store digital images including CR, DR, CT, and MRI.

RTE220

ADVANCED MODALITIES

1 CREDIT

This course covers the introduction of advanced modalities beginning with Computed Tomography (all generations) up to modern multi-detector systems. It examines the introduction and historical development of Magnetic Resonance Imaging including needed basic physics principles used in image formation. Also included are special techniques such as angiography and breast tomosynthesis.

RTE218

RADIATION BIOLOGY AND PROTECTION

2 CREDITS

This course focuses on introducing fundamental radiation biology concepts. Emphasis is placed on radiation interactions, cell damage, cell survival curves, cell sensitivity and response, factors affecting cell response, tissue kinetics, effects on the fetus, biological models, and radiobiological risk assessment. Radiation safety and protection practices will be addressed. Emphasis will be placed on ALARA practices, radiation sources, and procedural practice.

RTE222

RADIOGRAPHY REVIEW AND CAPSTONE

1 CREDIT

This course is designed to correlate scientific components of radiography to entry level knowledge required by the profession.

RTE150

CLINICAL PRACTICE I

4 CREDITS

This is the first clinical rotation assigning students to supervised clinical experiences in radiography. This course consists of supervised rotations through routine diagnostic areas. Students will perform radiologic examinations on patients under direct supervision of a technologist until competency has been achieved. Students will rotate through various clinical areas such as the emergency room, portable radiography, surgery, and outpatient imaging. This course consists of a minimum of 180 hours (approximately 12 hours per week for 15 weeks).

RTE250

CLINICAL PRACTICE II

4 CREDITS

This is the second clinical rotation assigning students to supervised clinical experiences in radiography. This course consists of supervised rotations through routine diagnostic areas. Students will perform radiologic examinations on patients under direct supervision of a technologist until competency has been achieved. Students will rotate through various clinical areas such as the emergency room, portable radiography, surgery, and outpatient imaging. This course consists of a minimum of 180 hours (approximately 12 hours per week for 15 weeks).

Prerequisite: Clinical Practice I (RTE150)

RTE251

CLINICAL PRACTICE III

4 CREDITS

This is the third and final clinical rotation assigning students to supervised clinical experiences in radiography. This course consists of supervised rotations through routine diagnostic areas. Students

will perform radiologic examinations on patients under direct supervision of a technologist until competency has been achieved. Students will rotate through various clinical areas such as the emergency room, portable radiography, surgery, and outpatient imaging. This course consists of a minimum of 180 hours (approximately 12 hours per week for 15 weeks).

Prerequisite: Clinical Practice II (RTE250)

PHY201

GENERAL PHYSICS I

3 CREDITS

This is an introductory course designed specifically for the student who has not taken a calculus-based general physics course, but is preparing for a career in medical physics. The combination of General Physics I and II will be adequate preparation for later upper-level physics courses. The course is designed to develop the ability to think as a physicist, rather than to survey physical science. To this end, the course will deal with the mechanics of particles and rigid bodies, the mechanics of fluids, and thermodynamics. These topics represent an increasing complexity.

PHY202

GENERAL PHYSICS II

3 CREDITS

This is the sequel to General Physics I. A student prepared in the calculus and vector analysis can take this course before General Physics I, but both courses must be taken. The course includes a historical introduction to electromagnetic fields following a detailed treatment of the concepts and laws. Gauss', Oersted's, and Ampere's Laws, and Maxwell's displacement current are central. Energy of the fields and storage elements in circuit theory and practical circuit analysis are treated. Electromagnetic (radio and light) waves are introduced.

Prerequisite: General Physics I (PHY201)

PHY301

MODERN PHYSICS

3 CREDITS

This course is an introduction to the basic concepts of modern physics. Modern physics is defined loosely as the physics developed in the 20th century. Classical physics is considered to be the period from the publication of Newton's Principia (1687) through 1900. The principal topics are relativity, quantum mechanics, nuclear physics, particle physics, and cosmology. Prerequisites are General Physics 1 and 2 and a working knowledge of the calculus as applied in those courses.

Prerequisite: General Physics II (PHY202)

PHY401

ELECTRICITY AND MAGNETISM

3 CREDITS

This is the sequel to General Physics I and II. It is an upper level physics course. The material is similar to the material in General Physics II. But the level of study is deeper. The subject matter of the course includes a historical introduction to electromagnetic fields followed mathematical introduction to vector analysis and vector calculus. The treatment of the concepts and laws emphasizes the requirements of the field description. Waves and wave motion in empty space and in dispersive media, the energy and momenta of the waves, and Einstein's special theory of relativity are treated in detail.

Prerequisite: Modern Physics (PHY301) concurrent or completed

PHY403

FUNDAMENTALS OF NUCLEAR PHYSICS

3 CREDITS

A strong foundation in nuclear physics is a fundamental component of any physicist's tool chest. This is especially true of the medical physicist whose bread and butter is radiation science. In this course, the student is introduced to a broad swath of topics in nuclear physics. First, quantum mechanics are treated briefly to the depth necessary for the rest of the material. Nuclear properties essential to understanding the rest of the course are covered. General principles of radioactive decay are discussed, followed by in-depth discussions of alpha, beta, and gamma decays. The last planned topic is neutron physics, although the chapter on nuclear reactions will be covered if there is time.

Prerequisite: Modern Physics (PHY301) concurrent or completed

PHY405

THERMODYNAMICS

3 CREDITS

This is an upper level undergraduate course in physics. The course is designed to present thermodynamics in as simple and as unified a form as possible. After an introduction to the first and second laws the complete set of thermodynamic potentials and the concept of a fundamental surface are introduced. The potentials are the central theme throughout the course. Modern laboratory measurements are shown to be directed toward determining the potentials. Statistical mechanics is treated as an integral part of the course, and shown to be a seamless whole with macroscopic thermodynamics. Key topics such as irreversibility, the ideas of Ilya Prigogine, chemical reaction rates, and heterogeneous equilibrium end the course.

Prerequisite: Modern Physics (PHY301) concurrent or completed

PHY407

QUANTUM MACHANICS

3 CREDITS

This is an introduction to quantum mechanics and the language of the Dirac vectors, on which modern treatments are based. The course begins with an introduction to Dirac vectors and transformations based on the requirements of what experiment tells us. Familiarity will develop as we encounter momentum, angular momentum, and atoms. The course ends with a treatment of atoms and spectra.

Prerequisite: Modern Physics (PHY301) concurrent or completed

PHY409

ANALYTICAL MECHANICS

3 CREDITS

This is an introduction to modern mechanical treatment of the motion of particles and rigid bodies. The course is based on Lagrange and Hamiltonian mechanics the basic principles of which are developed at the beginning of the course. The student should have an understanding of the calculus. The course is designed for learning by application. Each topic is introduced as briefly as possible and then the student will engage the application.

Prerequisite: Modern Physics (PHY301) concurrent or completed

BIOL301

HUMAN ANATOMY AND PHYSIOLOGY

4 CREDITS

This course is intended to provide the student with an overview of human anatomy and physiology in the framework of organ systems. The course is aimed at an audience of non-physician medical

professionals, and as part of that end the anatomical component of the course emphasizes cross-sectional anatomy as seen on planar and cross-sectional medical imaging such as CT, PET, and MRI images.

MATH201
CALCULUS I
3 CREDITS

This course is the first in a series of two designed to familiarize the student with the calculus. This particular course covers the fundamentals of calculus: the derivative and integral. It also covers a selection of topics to prepare the student for the second course in the series.

MATH202
CALCULUS II
3 CREDITS

This course is the second in a series of two designed to familiarize the student with the calculus. Satisfactory completion of Calculus I is required prior to taking Calculus II. This course starts with a brief introduction of the concepts of vectors, in order to build a discussion of vector-valued functions. This discussion contributes to the development of concepts of three-space necessary to the rest of the course. Partial derivatives, multiple integrals, and line and surface integrals make up the remainder of the course. The latter part of this course is especially applicable to the understanding of physics concepts, and it is the ultimate object of this course to prepare students to use those concepts in their further work in physics.

Prerequisite: Calculus I (MATH201)

GRADUATE PROGRAM ACADEMIC CATALOG

2019 – 2020 Academic Calendar

Summer 2019

Application Due Date	March 15, 2019
Semester Start	May 6, 2019
Memorial Day	May 27, 2019
Independence Day	July 4, 2019
Boot Camp	July 13-15, 2019
Break	July 22-26, 2019
Semester End	August 20, 2019

Fall 2019 Semester

Application Due Date	July 20, 2019
Semester Start	September 2, 2019
Labor Day	September 2, 2019
Boot Camp	November 9-11, 2019
Break	November 25-29, 2019
Thanksgiving Day	November 28, 2019
Semester End	December 17, 2019

Spring 2020

Application Due Date	November 15, 2019
Semester Start	January 6, 2020
Martin Luther King Jr. Day	January 20, 2020
Boot Camp	March 14-16, 2020
Break	March 23-27, 2020
Semester End	April 21, 2020

Summer 2020

Application Due Date	March 15, 2020
Semester Start	May 4, 2020
Memorial Day	May 25, 2020
Independence Day	July 4, 2020
Boot Camp	July 11-13, 2020
Break	July 20-24, 2020
Semester End	August 18, 2020

Fall 2020

Application Due Date	July 20, 2020
Semester Start	September 7, 2020
Labor Day	September 7, 2020
Boot Camp	November 14-16, 2020
Break	November 23-27, 2020
Thanksgiving Day	November 26, 2020
Semester End	December 21, 2020

Teaching Methodology

Most programs at JPU are designed to be completed in four semesters, which can be a duration of two years if the student attends fall/spring/summer semesters or a shorter period of time if the student attends fall/spring/summer semesters. All semesters are fifteen weeks long. Students who wish to pursue a more traditional route will generally enroll for fall and spring semesters, which begin in September and January respectively. Students who wish to pursue an accelerated path may enroll in all three (fall/spring/summer) 15-week semesters and complete the program in roughly 16 to 18 months. Four semesters following the accelerated path can be completed in roughly 16 months (ex. fall, spring, summer, fall). An additional few months may be required in order for the student to complete the minimum required number of clinical internship hours for programs requiring a clinical internship.

The Clinical Internship (for programs that require one) is designed to be completed through a host site arranged by the student and university. Specific clinical internship requirements vary by program, but in all cases involve competencies that students must complete/observe as well as writing assignments based on their experiences.

Information on required textbooks and course material will be provided prior to the start of the course. Students are responsible for securing their required course materials unless otherwise stated. The syllabus for each course will be provided no later than the first day of the course.

JPU's course management system is used to manage communication and distribute all course material. The system allows students to communicate with other students, instructors, teacher's aides, and administrative personnel. During the semester, students are able to retrieve resources for classes, course material, weekly schedules and tasks, lecture videos and supplemental lecture material through the system.

Homework assignments and assessments can also be completed online through file upload features and interactive tests and quizzes. Progress reports and comments on assignments from instructors and teacher's aides are also available through the course management system. Students are required to attend weekly conferences via teleconference, webcast, or video chat with the instructor or instructor's assistant to aide them on course material, homework assignments, and weekly topics. Choice of delivery system is at the full discretion of the instructor.

Each semester, there is a schedule of offered courses along with the day and time required for each mandatory weekly discussion. In addition homework assignments and assessments will typically be due on Sundays. The syllabus for each course notes that these weekly schedules are subject to change.

To help students manage their personal and professional lives along with their course work, homework can usually be submitted until 11:59pm on the day the assignment is due. Assessments are scheduled ahead of time so the students can make allowances with their schedules. If the times allotted are an issue for a student that cannot be overcome, the student may address this with their instructor or the JPU administrator ahead of time so alternatives may be arranged.

It is the student's sole responsibility to make sure they are checking messages and announcements to ensure they are reviewing and completing all that is required of them. Administrative personnel, instructors, and teacher's aides make sure information is as visible and clear as possible. Open communication between the student and JPU is promoted to make sure there is no ambiguity.

Boot camp is scheduled during the fall, spring and summer semesters and satisfies the required on-site instruction for programs offered through a hybrid, or blended, delivery format. Boot camp is not required for programs that are offered entirely through distance education. Boot camps are designed to allow students to meet and work together in a classroom setting both with each other and the instructors. Boot camp includes events such as: lectures, student project presentations, tours, lab sessions for some courses, visiting lecturers, study sessions, and review sessions.

JPU awards credit based on attendance, homework project submissions, and assessments. Undergraduate program courses require a minimum grade of 70% (C) in order to receive credit. Graduate program courses require a minimum grade of 80% (B) in order to receive credit.

Hardware and Software Required by the Student

- ✓ A computer with a minimum of a Pentium processor
- ✓ High-speed internet access
- ✓ Ability to stream flash videos
- ✓ Ability to read and create pdf files
- ✓ A minimum of Microsoft® Office 2003 or equivalent. New versions of Microsoft® Office are available to each student through their student email account through Microsoft® Office365
- ✓ Email account
- ✓ Access to a scanner
- ✓ Access to a fax machine
- ✓ Access to a copier
- ✓ Access to a printer
- ✓ Access to a webcam and microphone

General Physical Facilities and Equipment

JPU offers a hybrid learning environment where both online and on-site instruction is required. Students receive a secure username and password to access the online campus where they can manage their student account and attend classes. Students attend course lectures by watching videos that can be viewed any time of day as many times as the student wishes. Classes also have a required class meeting each week at a scheduled date and time administered as an online meeting.

On-site instruction is required each semester for one week called boot camp week. Students come to campus for guest lectures, lectures from faculty, student project presentations, group activities, tests, and lab exercises.

JPU's campus consists of administrative offices, classroom and computer lab space, a lobby and kitchenette area, and a library. The instructional facility is well-lit, air-conditioned, has free wireless internet, and has adequate seating, computer, and audio-visual equipment to provide students with an effective educational environment.

Computers with treatment planning software required for classes are available to students studying remotely through a remote desktop connection.

Facilities and Services for Students with Disabilities

John Patrick University of Health and Applied Sciences is proactive in meeting the needs of students with disabilities. Students with disabilities who have been admitted to the University may be eligible

for tutors, note takers, extended time on exams, or assistive technology. All students admitted to the University have both building and program access.

Student services for disabilities include physical disability, learning disability, ADD/ADHD, and multiple disabilities. Students with disabilities are responsible for submitting appropriate documentation of their disability. Documentation from a psychiatrist, licensed clinical psychologist, or medical doctor are accepted. Students with disabilities may submit appropriate documentation to the Director of Administrative Services upon enrollment to the school or as soon as documentation is received by the student to submit to the school. Documentation should be submitted via email or mail:

John Patrick University of Health and Applied Sciences
Attn: Director of Administrative Services
100 E. Wayne Street, Suite 140
South Bend, IN 46601
Via email to info@Rtuvt.edu

JPU provides reasonable accommodations for students with documented disabilities arranged by the Director of Administrative Services. During boot camp week when students are on campus, all building and classroom facilities are able to accommodate students with documented disabilities. Entry to the building, school facilities including classrooms, common areas, and restrooms are handicap accessible. Elevators are available, if needed.

Non-Discrimination Policy

John Patrick University of Health and Applied Sciences is non-sectarian and does not discriminate with regard to race, creed, religion, color, national origin, age, gender, disability, marital status, or any other legally protected status or other protected class in any of its academic course activities, employment practices, or admissions policies.

Programs Offered

GRADUATE PROGRAMS

Master of Science in Medical Physics (MSMP)	45 credits
Master of Medical Dosimetry (MSMD)	
Route for non-certified medical dosimetrists (non-CMD)	45 credits
Route for current certified medical dosimetrists (CMD)	45 credits
Master of Science in Medical Health Physics (MSMHP)	45 credits
Master of Science in Health Physics (MSHP)	45 credits
Nutritional Counseling Graduate Certificate	20 credits
Nutrigenomics Graduate Certificate	20 credits
Nutrition Oncology Graduate Certificate	20 credits
Integrative and Functional Nutrition Graduate Certificate	20 credits

Average Class Size

Average class size at John Patrick University of Health and Applied Sciences is 15-20 which keep the classes small and intensive. The maximum number of students in a typical classroom or lab is 40.

ADMISSION POLICIES

A person's academic ability and potential for success at John Patrick University of Health and Applied Sciences are the most important factors in the school's admission decision. Full consideration is given to the applicant's academic achievement and aptitude, personal experiences, and motivation. The school does not discriminate on the basis of such factors as national or ethnic origin, race, color, age, gender, sexual orientation, marital status, religion, disability, or veteran status.

Students that have submitted an application will receive full acceptance, no acceptance, or conditional acceptance. Conditional acceptance suggest the applicant will receive full acceptance once prerequisites and/or additional admissions materials are received. Students that have received conditional acceptance to the MS Medical Physics program may receive full acceptance to the MS Medical Dosimetry program.

The accepted applicant for Masters level programs must possess a Bachelor's degree from an accredited or approved institution. The accepted applicant for Bachelor's level programs must possess an Associate's degree from an accredited or approved institution. Students holding Associate's degrees upon acceptance have their transcripts evaluated during the admissions process to ensure they have a total of at least 60 credits and at least 36 of those 60 credits are general education credits. Among the general education categories of humanities, sciences, social sciences, and mathematics, at least one course must be complete from each category.

International students (and U.S. students with international transcripts) must provide a course-by-course evaluation of international transcripts by a provider approved by the National Association of Credential Evaluation Services (NACES) such as World Education Services.

Admission Procedure for Graduate Programs

John Patrick University of Health and Applied Sciences provides an application through their website. Applications can also be provided upon request via email to info@Rtuvt.edu or fax to 574-232-2200.

- 1) After the application and all required materials are received, the applicant will be notified within 7-10 days. Required Materials include:
 - ✓ Three letters of reference
 - ✓ Curriculum Vitae
 - ✓ Official transcripts from all higher education institutions
 - ✓ Personal statement letter
 - ✓ Copies of GRE if applicable to program
 - ✓ Copies of TOEFL or IELTS scores, if applicable
 - ✓ Application
 - ✓ \$35.00 non-refundable application fee
- 2) After the applicant is notified that their application is complete, an interview will be scheduled with the President or Vice President of Academic Affairs and Dean of Academic Affairs and two faculty members via phone conference.

- 3) The applicant will be notified of the admission decision through an Acceptance or Denial Letter via email within 7-10 days. Course selection, registration, and financing will take place during advising and registration process.

Admission Requirements and Recommendations

GRADUATE PROGRAMS

Medical Physics, Medical Health Physics, Health Physics Programs

Application Requirements:

- ✓ Letters of reference
- ✓ Official transcripts from all higher education institutions
- ✓ Personal statement letter
- ✓ Copies of GRE if applicable to program
- ✓ Copies of TOEFL or IELTS scores, if applicable
- ✓ Online application and non-refundable application fee of \$35.00

Program Admission Requirements

- ✓ Bachelor of Science Degree or equivalent
- ✓ A GPA of 2.5 (on a 4.0 scale) for the last degree earned. A 3.0 or higher (on a 4.0 scale) is preferred.
- ✓ If applicant's first language, or language of instruction, is not English, English proficiency examination scores are required. Test of English as a Foreign Language (TOEFL) minimum scores are 550 (paper-based) or 213 (computer-based) or 79 (internet-based). The International English Language Testing System (IELTS) minimum score required is 6.5. The PTE Academic minimum score required is 53.
- ✓ Interview with JPU representative
- ✓ Personal statement
- ✓ Three Letters of Reference

Admission requirements will be used to evaluate the acceptance of an applicant into the program.

Program Recommendations (Medical Health Physics)

- ✓ Human Anatomy and Physiology
- ✓ Calculus – 2 semesters

Program recommendations are not a requirement for admissions but must be taken concurrently with graduate program courses.

Program Prerequisites (Medical Physics)

- ✓ Calculus – 2 semesters

Master of Medical Dosimetry Program

Application Requirements

- ✓ Letters of references
- ✓ Official transcripts from all higher education institutions
- ✓ Personal statement letter
- ✓ Copies of TOEFL or IELTS, if applicable

- ✓ Online application and \$35.00 application fee

Program Admission Requirements

- ✓ Bachelor of Science Degree or equivalent
- ✓ A GPA of 2.0 (on a 4.0 scale) for the last degree earned. A 3.0 or higher (on a 4.0 scale) is preferred.
- ✓ If applicant's first language, or language of instruction, is not English, English proficiency examination scores are required. Test of English as a Foreign Language (TOEFL) minimum scores are 550 (paper-based) or 213 (computer-based) or 79 (internet-based). The International English Language Testing System (IELTS) minimum score required is 6.5. The PTE Academic minimum score required is 53.
- ✓ Interview with JPU representative
- ✓ Personal statement
- ✓ Three Letters of Reference

Program Recommendations

- ✓ Human Anatomy and Physiology

*Program recommendations are not a requirement for admissions but must be taken prior to program completion.

Nutrigenomics, Nutrition Oncology, Nutritional Counseling Graduate Certificates

Application Requirements

- ✓ Letters of references
- ✓ Curriculum Vitae/Résumé
- ✓ Official transcripts from all higher education institutions
- ✓ Personal statement letter
- ✓ Copies of TOEFL or IELTS, if applicable
- ✓ Online application and \$35.00 application fee

Program Admission Requirements

- ✓ Bachelor, Master or Doctorate degree from a regional, national or international equivalency accredited agency recognized by the United States Department of Education
- ✓ A GPA of 3.0 or higher (on a 4.0 scale) for the last degree earned.
- ✓ If applicant's first language, or language of instruction, is not English, English proficiency examination scores are required. Test of English as a Foreign Language (TOEFL) minimum scores are 550 (paper-based) or 213 (computer-based) or 79 (internet-based). The International English Language Testing System (IELTS) minimum score required is 6.5. The PTE Academic minimum score required is 53.
- ✓ Active/Current Medical and/or License/Certification (examples include MD, DO, ND, DC, DPT, PharmD, PA-C, ARNP, RN, RPh, RD/LD/LN, LMHC, LMFT, LCSW, CAC)
- ✓ Interview with JPU representative
- ✓ Personal statement
- ✓ Three Letters of Reference

Integrative and Functional Nutrition Graduate Certificate

Application Requirements

- ✓ Letters of references
- ✓ Curriculum Vitae/Résumé
- ✓ Official transcripts from all higher education institutions
- ✓ Personal statement letter
- ✓ Copies of TOEFL or IELTS, if applicable
- ✓ Online application and \$35.00 application fee

Program Admission Requirements

- ✓ Bachelor, Master or Doctorate degree from a regional, national or international equivalency accredited agency recognized by the United States Department of Education
- ✓ A GPA of 3.0 or higher (on a 4.0 scale) for the last degree earned.
- ✓ If applicant's first language, or language of instruction, is not English, English proficiency examination scores are required. Test of English as a Foreign Language (TOEFL) minimum scores are 550 (paper-based) or 213 (computer-based) or 79 (internet-based). The International English Language Testing System (IELTS) minimum score required is 6.5. The PTE Academic minimum score required is 53.
- ✓ Interview with JPU representative
- ✓ Personal statement
- ✓ Three Letters of Reference

Grading System For Graduate level courses

Grade and Credit Point System

The following grades are considered in computing semester or cumulative grade averages. Course hours with a grade of "F" are counted when computing grade point averages but do not count toward the earned hours required for degrees.

A	(4.0 Pts)	Excellent
B	(3.0 Pts)	Good
C	(2.0 Pts)	Unsatisfactory
D	(0 Pts)	Failing
F	(0 Pts)	Failing
P	(4.0 Pts)	Passed (Pass/Fail Option)
WF	(0 Pts)	Withdrawn – Failing

Repeated Courses

Repeated courses are counted in the John Patrick University of Health and Applied Sciences grade point average and may also be counted in the student's primary program GPA (Student Program GPA), depending on the policies of the student's program. Students must replace a failed grade, or a grade not meeting the minimum grade requirement. When students repeat a failed grade, the original grade will be replaced by the new grade and will be calculated in the cumulative GPA. Both grades are counted as attempted credits and calculated in SAP assessment.

The following grades are not considered in computing semester or cumulative grade point averages:

AU Audit - No Credit

I	Incomplete/Pending
T	Denotes credits transferred from another Institution
W	Withdrawn
R	Repeated Course

Abbreviations and Symbols

EHRs Credit hours earned

QPTS Quality Points Earned

GPA Grade point average (computed by dividing QPts by EHRs)

Credit Types

Regular Credit – All John Patrick University of Health and Applied Sciences credit is reported in terms of semester hours, whether earned during a 16-week semester or a summer session.

Graduate Students: A 3.0 cumulative GPA is required at all times.

Program requirements are part of the application process and must be completed prior to the start of the program. Recommendations are required in order to complete the program. They are not required prior to acceptance or program study.

Credit for Experiential Learning

John Patrick University of Health and Applied Sciences does not grant any credit for prior experiential learning.

Transfer of Credit

John Patrick University of Health and Applied Sciences may accept any course work successfully completed at other approved colleges and universities, if it comparably meets John Patrick University of Health and Applied Sciences course work requirements. A student may not transfer more than 25% of program classes. Classes must have a “C” or higher to be transferred. Graduate level classes below a “B” are not eligible for transfer to an JPU graduate program. JPU reserves the right to refuse credit transfers. **Transfer credits are not included in the cumulative GPA or cumulative program GPA calculation.**

Should a student wish to transfer credit from John Patrick University of Health and Applied Sciences to another college or university, the student is advised to first contact the academic institution to which the transfer of credit is sought. All colleges and universities have their own policy regarding acceptances of transfer of credit.

Process for Transfer of Credit

All students applying for admission to John Patrick University of Health and Applied Sciences must arrange to have original transcripts sent to John Patrick University of Health and Applied Sciences directly from the issuing institution. These arrangements are to be made at the time of the student's application. International students (and U.S. students with international transcripts) must provide a course-by-course evaluation of international transcripts by a provider approved by the National Association of Credential Evaluation Services (NACES) such as World Education Services.

Upon receipt of these transcripts of college level course/degree completions, the President, Vice President of Academic Affairs and Academic Dean, or relevant Program Director will review the documents and make the assessment of the transferability of each course appearing on the transcripts. JPU may request additional information such as a course description or syllabus. Students desiring to

request transfer credits must fill out a Transfer Credit Request Form and provide the course description. Additional supporting documentation may be requested from JPU in order to complete the review, such as the syllabus. Students can request the Transfer Credit Request Form by emailing info@Rtuvt.edu.

The President, Vice President of Academic Affairs and Academic Dean, or relevant Program Director will review the request and make a decision. The Director of Administrative Services will notify the student of the decision within 30 days.

ACADEMIC POLICIES

Student Academic Progress

Details regarding the academic progress of each student are documented by the institution. All students must maintain minimum standards of satisfactory academic progress as measured by the student's cumulative grade point average and pace. The minimum acceptable GPA (grade point average) is 3.0. Should an individual student's grade point average fall below 3.0, the student will be placed on academic probation. During the ensuing enrollment sessions the student will receive remedial guidance from the President, Program Director, or Vice President of Academic Affairs and Academic Dean, and additional assignments or projects may be required to assure that the student is benefiting from the instruction. The early identification of those students who are experiencing academic difficulty will assist the institution in providing the additional guidance that may provide a remedy. Students who do not meet minimum standards of satisfactory academic progress or demonstrate barriers to learning including social, emotional, and physical health deficits may be placed on Academic and/or Administrative Hold. This status is meant to work with the student and help them address their barriers to learning through time, advising, or other means.

Standards of Satisfactory Academic Progress Policy and Procedures

John Patrick University of Health and Applied Sciences has the following Standards of Satisfactory Academic Progress (SAP) Policy for all students. These standards require that a student make progress toward an undergraduate or graduate degree during all periods of enrollment.

Minimum Standards of Satisfactory Academic Progress

- ✓ Maintain required minimum cumulative Grade Point Average (GPA) or higher (a qualitative measure) at all times. The minimum acceptable cumulative GPA for undergraduate students is 3.0. The minimum acceptable cumulative GPA for graduate students is 3.0.
- ✓ Successfully complete at least 67% of the cumulative attempted credit hours (a quantitative measure) and
- ✓ Make positive progress toward a program of study within 150% of the published program length.
- ✓ Unsuccessfully completed courses must be completed successfully during the second attempt.

Statuses of Academic Progress

- 1) Satisfactory – Student is meeting the minimum academic standards or has no academic history. Fully Eligible for financial aid.
- 2) Financial Aid Warning – Student did not meet minimum standards for cumulative GPA and/or 67% completion rate in the previous evaluation period (semester). Financial Aid Warning is available to students who were making progress in the previous semester, or who were in their first semester of the program. The student will receive federal financial aid during the Financial Aid Warning period (one semester) without appeal. Student will be notified in writing (1) that he/she has been placed on Financial Aid Warning and (2) what must be achieved to achieve satisfactory academic progress by the end of the period. The student must reach all minimum standards by the end of the next evaluation period.

Warning - Student did not meet minimum standards for cumulative GPA and/or 67% completion rate in the previous evaluation period. Student must reach all minimum standards by the end of the next evaluation period. This is also referred to as academic probation.

- 3) Unsatisfactory Progress – Student has had two consecutive evaluation periods (semesters) below minimum standards for cumulative GPA and/or 67% completion rate. Student is ineligible for financial aid and may face academic probation or dismissal unless he/she prevails upon appeal. Two consecutive periods below minimum will require a meeting with the Vice President of Academic affairs or other designated person with possible dismissal from the program, if the student does not prevail upon appeal.
- 4) Maximum Timeframe – Student has attempted at least 180 credit hours toward a Bachelor's Degree. Graduate students must earn their degree within the timelines set by the Graduate School per their graduate program. If a student exceeds these credit hour limits, they are not making progress toward a degree within the 150% federal requirement. Student is ineligible for financial aid, and maybe dismissed from the program, unless he/she prevails upon appeal.

When is Academic Progress Evaluated? A student's standards of satisfactory academic progress will be evaluated at the end of each academic semester (i.e., fall, spring, and summer semesters).

Successful completion of an undergraduate class is defined as earning a grade of A, B, C, or Pass.

Unsuccessful grades are D, F, W, Fail, or Incomplete.

Successful completion of a graduate class is defined as earning a grade of A, B, or Pass. Unsuccessful grades are C, D, F, W, Fail, or Incomplete.

Transfer Students and Transfer credit hours: Students transferring to JPU are required to have all prior college transcripts evaluated for transfer credits. All credit hours accepted by JPU will be used to determine 67% completion rate and maximum timeframe of 150%.

Remedial/Repeat Courses: All remedial and repeat courses will be used in determining completion rate and timeframe. Actual letter grades are not included in the cumulative GPA. When students repeat a failed grade, the original grade will be replaced by the new grade and will be calculated in the cumulative GPA. Students must replace failed grades. Audited Credit Hours: Courses taken on an audit basis are not counted when determining the completion percentage or for purposes of determining your cumulative GPA.

In order to calculate your total ATTEMPTED hours IF you have courses on your transcript with a grade of “W” (Withdrawal), “F” (Fail), “FA” (Failure to Attend) or “I” (Incomplete) you will need to account for those credits in your total attempted hours. A minimum of 3 (three) credit hours should be counted for EACH class that was withdrawn, failed, failure to attend, or incomplete and ADD the total number to “Total Earned Credits” on your transcript in order to determine total attempted hours.

To calculate completion rate, take total EARNED credit hours and divide by total ATTEMPTED hours. For the example above: $80/101=79\%$.

If you are unable to determine your SAP status, visit or call Administrative services at 574-232-2408 for assistance.

“Cumulative GPA” (must meet SAP minimum GPA requirements).

Resolving Incomplete Grades

The school incorporates an “I” for incomplete courses within the listed academic policies above. The School’s policy is that incomplete grades must be completed and a grade reported no more than five (5) semesters of active enrollment after the term the incomplete grade was earned. If the student does not resolve the incomplete grade, it becomes the responsibility of the School to assign a punitive grade of “F”.

How to Re-establish Satisfactory Standing

A student must bring his/her GPA and completion rate up to the minimum standards of the required cumulative GPA, per matrix, and 67% completion rate.

Appeal Process for SAP

Mitigating Circumstances: If a student has experienced mitigating circumstances (illness, job related, family illness, change of major) during the most recent evaluation period, they may submit an Appeal. **Students are restricted to two appeals.** Appeal forms are available on the website. The appeal must explain why the student failed to make satisfactory progress and what has changed in his/her situation that will allow him/her to make satisfactory progress at the next evaluation. The student must also submit supporting documentation with the appeal form. If the appeal is approved, the student will be placed on one of two Statuses:

- 1) Financial Aid Probation – The student is expected to improve to minimum standards by the end of the next evaluation period. The student must meet minimum standards by the next evaluation period. Probation lasts for one semester and the student may receive federal financial aid during that semester.

Warning – The student must meet minimum standards by the next evaluation period. A student cannot be on probation for two consecutive semesters.

- 2) Financial Aid Probation with an Academic Success Plan – The student cannot be expected to improve to minimum standards by the next evaluation period. The student and JPU have agreed to a success plan to allow the student to meet minimum standards within a fixed number of evaluation periods. If at any time the student stops following the success plan and they are not meeting minimum standards they will become Ineligible for program completion. If a student

meets minimum standards at any time while on a success plan their Status will be updated to Eligible.

Academic Success Plan – It is not reasonable for the student to improve to minimum standards by the next evaluation period. The student and JPU have agreed to a success plan to allow the student to meet minimum standards within a fixed number of evaluation periods. If at any time the student stops following the success plan and they are not meeting minimum standards they will become Ineligible for program completion. If a student meets minimum standards at any time while on a success plan their Status will be updated to Eligible.

If the appeal is not approved, the student will remain Ineligible until they meet all minimum standards. See *Re-establishing Federal Financial Aid Eligibility* below.

Timeframe Mitigating Circumstances: If a student has not completed their program of study within the 150% timeframe and there are mitigating circumstances (illness, job related, family illness, change of major), they may submit an Appeal to reinstate financial aid eligibility. If this appeal is approved, the student will be placed on the following Academic Eligibility Status:

Timeframe Academic Success Plan – The student and JPU have agreed to a success plan. The student is fully eligible, as long as they are strictly following the success plan. If at any time the student stops following the success plan, they will become Permanently Ineligible.

If the appeal is not approved, the student will be Ineligible. All students are limited to one Timeframe Appeal/Academic Success Plan.

Probation and dismissal actions are processed uniformly without regard to race, color, sex, religion, age, disability and national origin, as defined by law. In the event a student disagrees with the application of these satisfactory academic progress standards, a written appeal may be filed with the Vice President of Academic Affairs.

Re-establishing Federal Financial Aid Eligibility

A student must bring his/her GPA and completion rate up to the minimum standards of the required cumulative GPA and 67% completion rate.

Program Completion

The institution's policy on program completion is developed to ensure student progress through the program in a timely manner. Students must complete the program of study within 150% of the normal program length, as defined by the institution and must meet the program objectives. Students may be granted extensions by the President or Academic Dean under the following conditions: student is awaiting accreditation, student has endured extraordinary personal hardship, or the student experiences delays from their clinical internship site that the student and University are unable to prevent. Students that have been granted an extension are expected to maintain good communications with JPU. Program students will meet at least yearly with an JPU staff member/faculty member during boot camp to review their progress in the program. For students that require additional undergraduate courses for program completion, the program time will be adjusted based on number of credit hours needed.

Change of Program

Students desiring to change programs of study must meet with the President or Academic Dean to complete the appropriate documentation. The new program will have different Standards of Satisfactory Academic Progress and will be discussed during this meeting.

A maximum of three program changes may be made during a student's attendance at John Patrick University of Health and Applied Sciences-VT. Program competition time may be extended due to scheduling conflicts or the additional credit hours require for the new program

Multiple Majors

Students often decide to pursue more than one major because many courses are applicable to more than one program. Additional time is required to complete the required courses for a multiple major, and additional costs are incurred. Students wishing to take advantage of this opportunity must meet with the Program Director or Administrator to complete the appropriate forms. Students who choose to pursue multiple majors may utilize the courses requirements in one major to fulfill the elective requirements in another. Refer to the *Timeframe Mitigating Circumstances* section above regarding SAP implications. Students with multiple majors will need to appeal Maximum Timeframe only if they will not complete the program within 150% of the credit hours for their multiple major.

Advising

Academic: Students are encouraged to seek academic counsel from the faculty members, and Administrator - not only during registration periods but also during the academic year when problems and questions arise.

Admissions: Prospective students of the college are interviewed by an Admissions Representative to make sure their career objectives can be served by the college's academic resources. Those persons whose objectives cannot be served by the programs of the college are advised to seek other educational institutions that offer programs more aligned to their fields of interest.

Employment: JPU graduate placement support begins the first semester the student enters the program. Students are informed of opportunities in the industry during boot camp weeks and encouraged to be active with early networking. JPU meets with every student during boot camp weeks and discusses employment opportunities and placement opportunities. Students have access to faculty to assist with résumé writing, résumé reviews, rehearsing interviews, and coaching. JPU faculty are actively engaged with students and connecting them with opportunities through professional associations and relationships. JPU is evaluating other mechanisms to increase the student's exposure to employers. Graduate employment is very important to JPU.

Financial Assistance: Students may seek information from Administrative Services to manage financial arrangements.

Personal: Students and potential students are welcome and encouraged to seek assistance from any member of the staff or faculty regarding professional, personal, financial, and /or admissions advice when issues arise that have a negative effect on their ability to do their best work at John Patrick University of Health and Applied Sciences. When appropriate, students are referred to outside agencies or professionals for support or assistance. Through our on line program student are given access to counseling services through www.wellconnectbysrs.com. This website provides information, tools and support to address barriers to their success. Comprehensive student services are based on an individualized service. Students have access 24/7 to telephone counseling for students in crisis, assessment and students.

Student Resource Services

All students also have access to the Student Resource Services (SRS) website (www.wellconnectbysrs.com) for information, tools, and support to address barriers to their success. Comprehensive student services are based on an individualized service plan and include:

- ✓ Unlimited 24-7 telephone counseling response to any covered students in crisis, assessment and students needing additional support or identifying new needs/requests;
- ✓ Telephone counseling/life coaching (1-5 telephone counseling hours) from a licensed mental health professional;
- ✓ Individualized resource searches for all covered students, focused on issues that impede student success, including special adjustment needs by specific populations such as returning veterans;
- ✓ Telephone consultations for all covered students with an attorney or financial expert;
- ✓ Follow-up and outreach with the student until all issues are resolved sufficiently that the student can be successful in personal and school goals;
- ✓ Staff/faculty formal referral of students with intensive needs;
- ✓ Faculty consultation on any student concerns that would impede that student from being successful.

Attendance

This institution's policy on attendance is based on the premise that regular and substantive communication between the teacher and the student and, also, among students themselves, has significant value in the learning process. Our programs are structured to maximize your interaction with your instructor and peers while maintaining autonomy over your academic schedule. Therefore, each student is afforded the freedom to establish his or her schedule, but within the confines of each semester. Regular and substantive contact with the instructor/ teaching assistant and other enrolled students is a requirement that must be met. Such contact will help guide and maintain your steady progress towards the completion of assignments and courses. Such contact better assures we may more readily assist you in resolving any problematic aspects of your program. Instructors are authorized to factor the frequency and adequacy of your communications into the assignment of a grade for any given course.

Attendance at semester boot camp is mandatory for all program students. Students will be issued an incomplete if the student fails to attend boot camp.

Absences

Allowances for interruptions in "attendance" due to illness or personal emergency should be handled on a case-by-case basis between the student and instructor. Arrangements to make up work missed and return to an agreed schedule should be initiated by the student and established with the instructor. Absences may be granted for good reasons at the discretion of the University. Students are required to submit a written request for any extended leave of absence. The request must include a written reason for the request and must be signed and dated by the student. An Extended Leave of Absence Request Form is available upon request through the Director of Administrative Services. A leave of absence is

a withdrawal for Federal financial aid purposes, and JPU must complete a Return of Title IV calculation to determine if any unearned funds must be returned to the aid programs.

Frequent absences during a course could be grounds for dismissal. Students will be contacted and counseled before significant measures are taken. Plans will be made for make-up work should it be warranted. JPU's course management system tracks the student's activities. This student activity log is used to verify class attendance.

Academic Integrity Policy

JPU has a zero tolerance policy. Integrity is a foundational concept of professional behavior and JPU takes such matters very seriously. In general, if you have to ask if behavior would violate the integrity policy, it probably does.

JPU is committed to educate, implement, support, and enforce sound academic and professional integrity.

Collaboration Defined

- ✓ Working together on assignments and projects
- ✓ Citing literature

Cheating Defined

- ✓ Not doing the work
- ✓ Not doing the work and directly copying

If academic dishonesty is suspected, the information will be documented and brought before the President for review. The student or students will be notified that there is a suspicion of academic dishonesty and an investigation will follow. Information retrieved during the investigation process will be evaluated and the student or students involved will be informed of the result.

In the event that academic dishonesty is validated during the investigation process, the individual or individuals involved will be notified of any action JPU chooses to take.

Typically, a first offense will result in the individual or individuals receiving probationary status.

Students with Disabilities

If you feel you have a disability and need special accommodations of any nature whatsoever, please communicate them with the Director of Administrative Services before or during the first week of classes. The Director of Administrative Services will inform faculty as needed and the faculty member will make every effort to provide reasonable accommodations to ensure that you have a fair opportunity to perform in your course work.

Copyright Infringement Policy

John Patrick University of Health and Applied Sciences recognizes the importance of copyright protection and has developed this policy to effectively combat copyright infringement through informing University IT Resource Users about the issue, sanctions for illegal actions, and options for legal file-sharing.

COPYRIGHT

Copyright is the legal protection of intellectual property. This includes, but is not limited to literary works, artistic works including drama, music, and film, multi-media, and peer-to-peer file sharing.

Copyright infringement occurs when individuals exercise rights that are exclusive rights to the copyright owner. Activities that constitute copyright infringement include:

- Downloading and sharing music, videos, and games the individual does not have the rights to
- Using corporate logos without permission
- Placing an electronic copy of a standardized test without permission from the copyright owner
- Including music, scanned artwork or a scanned photo from a book on a website without attribution or permission from the copyright owner(s)
- Placing full-text articles on a website that is not password protected
- Downloading licensed software from non-authorized sites without permission of the copyright owner or license holder
- Placing a movie or a large segment of a movie available on a website without permission from the copyright owner
- Unauthorized peer-to-peer file sharing

SANCTIONS

The unauthorized distribution of copyrighted material, including peer-to-peer file sharing, may subject an individual to civil and criminal liabilities. Possible penalties for copyright infringement include:

- Payment of actual damages or statutory damages no less than \$750 and no more than \$30,000 per work.
- The court may award up to \$150,000 per work for willful infringement as well as attorney's fees and other associated costs.
- The court may also assess criminal penalties for willful infringement including up to five years in jail and up to \$250,000 per offense.

Resources for additional information include Title 17, United States Code, Sections 504 and 505 and the U.S. Copyright Office website at <http://www.copyright.gov>.

ENFORCEMENT

John Patrick University of Health and Applied Sciences makes an effort to prevent and detect copyright infringement as well as respond promptly to copyright infringement claims. John Patrick University of Health and Applied Sciences informs students, faculty, and staff of the Copyright Infringement Policy. In addition, the Appropriate Use Policy for IT Resources outlines that no resources are to be used for any illegal activity.

John Patrick University of Health and Applied Sciences will respond promptly to legitimate copyright infringement notices and operate within the requirements of the Digital Millennium Copyright Act.

John Patrick University of Health and Applied Sciences will cooperate fully with any investigation by public authorities related to copyright infringement. Students found guilty will be subject to the full extent of penalties allowed by law as well as possible suspension from their program of study.

OPTIONS FOR LEGAL FILE-SHARING

The following website provides information on online service providers that allow users to acquire copyrighted material legally such as Amazon and Pandora: <http://www.educause.edu/legalcontent>.

ANNUAL DISCLOSURE

The University feels an awareness of the issue and alternatives to prevent copyright infringement are the best ways to prevent copyright infringement. The University publishes the Appropriate Use Policy for IT Resources and the Copyright Infringement Policy to new students during the orientation process

and annually on the main campus website. The University also has these policies published on the public website.

MAINTENANCE OF THE POLICY

John Patrick University of Health and Applied Sciences will periodically review this policy to evaluate its effectiveness and provide relevant and necessary information to assist in preventing copyright infringement.

Communication Policy

John Patrick University of Health and Applied Sciences reserves the right to send official communications to students via email with the expectation that students will receive and read these messages in a timely fashion. Communications may also be initiated through internal communication features of the Campus Course Management System (Pass-A-Notes, News Announcements, Message of the Day, etc.).

Students are expected to check their email (the email provided by the student for their student profile) frequently and consistently to receive University-related communications.

Students that have their email address on file for John Patrick University of Health and Applied Sciences forwarded to an alternate email address do so at their own risk. The University is not responsible for issues that may impact property or timely transmission of, or access to, email forwarded to any other email address. Problems that arise from this will not absolve the student of their responsibility to be aware of and comply with information provided by John Patrick University of Health and Applied Sciences via email or internal communication features of the Campus Course Management System.

Please be advised that email is not considered to be a secure medium for sensitive and confidential information. Students may contact the Director of Administrative Services at (574) 232-2408 for advice on the most secure way to send potentially sensitive and confidential information to John Patrick University of Health and Applied Sciences.

Appropriate Use Policy for IT Resources

John Patrick University of Health and Applied Sciences provides an information technology (IT) environment that includes access to an online campus with secure username/password access for faculty, staff, and students, computing services, wireless internet, treatment planning software, remote access to treatment planning software on campus, online databases, and other course resources. These resources ("IT resources" or "resources") are intended to support the operations of the University.

APPLICABILITY

This policy applies to all individuals using IT resources regardless of whether they are accessed from the campus or from remote locations.

APPROPRIATE USE

IT resources are provided for University-related purposes including support for instruction, research, administrative functions, and student use for the purpose of facilitating the successful completion of coursework. Use of the resources should be limited to these purposes, including incidental personal use.

Incidental personal use must not interfere with the intended use of the IT resources or include any illegal activity. Incidental personal use by staff members must not interfere with the fulfillment of job responsibilities or disrupt the work environment.

USER RESPONSIBILITIES

Users are responsible for being aware of any University policies or regulations that govern the use of IT resources. Users must comply with all federal and state laws and University policies.

Users may not engage in unauthorized use of resources, regardless of whether the resource is protected against unauthorized use.

Users may not use resources to engage in partisan political activities that suggest University endorsement or support.

Users are expected to respect the privacy of other users, even if the devices and systems by which other users access IT resources are not securely protected.

Unauthorized use by a User of another User's personal identity or login credentials is prohibited.

Users may not use any IT resource in a manner which interferes unreasonably with the activities of the University or other Users.

IT resources may not be used to fund raise, advertise, solicit, or operate a business for commercial purposes without approval from the University in advance.

Pornography and sexually explicit content is prohibited unless such use is for a scholarly or medical purpose. Users may not use IT resources to store, display, or disseminate pornographic or sexually explicit content.

Users are expected to engage in safe computing practices such as setting appropriate restrictions on accounts, setting strong passwords, and keeping passwords secure.

ENFORCEMENT

Use of IT resources is a privilege and not a right. User's access to IT resources may be suspended or terminated if the user violates this policy.

Users who violate this policy, other University policies, or external laws may be subject to disciplinary action. The University may report certain uses of IT resources to law enforcement agencies, if applicable.

Users who have been suspended or removed from access to IT resources may appeal the decision by following the Grievance Policy process outlined in the Academic Catalog.

SECURITY

The University may, without further notice to Users, take any action it deems necessary to protect the interests of the University and to maintain the stability, security, and operational effectiveness of IT resources. This may include, but is not limited to, scanning stored data, network traffic, usage patterns, and other uses of IT resources.

PRIVACY

Responsible parties of the IT environment will perform management tasks in a manner that is respectful to individual Users. This includes, but is not limited to, monitoring and routine system maintenance including the backup of data, monitoring of general use patterns, and other usage activities.

The University may use security tools and network and systems monitoring hardware and software without notice.

The University may be compelled to disclose the electronic records of Users in response to various legal requirements such as subpoenas, court orders, discovery requests for the purpose of litigation, and search warrants. Request for public records may be granted providing they fall within rights established by the Freedom of Information Act.

The University may disclose the results of any general or individual monitoring or inspection of any User's records to the appropriate University authority or law enforcement agency. The University may use such records during disciplinary proceedings.

Upon receiving written approval from the President of the University, the University may access or permit access to the contents of communications or electronically stored information:

- When required by law.
- If the University determines that access to the information in a specific User's account is essential to the operational needs of the University and the employee is unavailable or unwilling to provide access to the information.
- If the University receives a written request for access to information from an immediate family member or the lawful representative of a deceased or incapacitated User.
- If personally identifiable information about Users must be disclosed without their consent to protect the health and well-being of students, employees, or other persons in emergency situations, to prevent imminent loss or damage, or to prosecute or defend its legal actions and rights.

Called to Active Duty Policy

Students who serve in the U.S. armed forces may be called to duty with little notice, which may affect your ability to attend classes. These active duty reasons include:

- ✓ Deployment (not including basic training)
- ✓ Specialized training
- ✓ Disaster relief efforts

In a situation where your attendance at John Patrick University of Health and Applied Sciences is interrupted for one of these reasons, notify the Director of Administrative Services and provide a copy of your orders. One of the following options will be available:

Withdraw from All Classes

Students who withdraw from all classes will receive a 100% refund on tuition and fees regardless of the date the withdrawal occurs within the semester. Students who began classes for the semester and completed at least one week will have a W appear on their transcript. For this policy to apply, the student must submit the withdrawal request and a copy of their orders no later than seven (7) days after receiving their orders.

Withdraw from Some Classes

Work with your Instructor or Instructors to see if this is an option.

For students who choose this option, there will be a 100% refund on tuition and fees for the classes the student chooses to withdraw from regardless of the date the withdrawal occurs within the semester. Students who began classes for the semester and completed at least one week will have a W appear on their transcript. For this policy to apply, the student must submit the withdrawal request and a copy of their orders no later than seven (7) days after receiving their orders.

Request an Incomplete Grade

Complete the Request for an Incomplete Grade Form with the permission of your Instructor(s). The student will have one calendar year from the date the incomplete grade request is approved to complete the required coursework.

Request for Incomplete Grade Form (link to pdf)

Receive a Grade Based on Work Completed

With permission from your Instructor(s), you may choose to receive a grade for the course based on work you have completed up to the date of the request.

Grievance Policy

First Step-Anyone with a grievance or complaint may request an individual conference with the instructor or staff member to discuss the matter.

Second Step-If a satisfactory resolution to the problem is not reached, the aggrieved party should seek guidance from the Director.

Third Step-If the grievance is not resolved within 5 days of the incident, the aggrieved party must present to the Director, in writing, all facts of the grievance.

Within 48 hours, upon receipt of the written information, the Director will schedule a Grievance Committee hearing. The time of the meeting will be communicated in writing to all parties. The committee will consist of the Academic Dean and two staff or faculty members not involved with the incident in question.

All Persons or their representatives involved with the incident must be present via teleconference at the time of the hearing. All parties involved will be given the opportunity to discuss the grievance. The Grievance Committee will excuse all parties involved in the grievance and immediately review and conclude the case. The decision of the committee will be communicated to those involved in the incident within 48 hours. The committee decision will be final.

Accrediting Commission of Career Schools and Colleges (ACCSC) Student Complaint Procedure

Schools accredited by the Accrediting Commission of Career Schools and Colleges must have a procedure and operational plan for handling student complaints. If a student does not feel that the school has adequately addressed a complaint or concern, the student may consider contacting the Accrediting Commission. All complaints reviewed by the Commission must be in written form and should grant

permission for the Commission to forward a copy of the complaint to the school for a response. This can be accomplished by filing the ACCSC Complaint Form. The complainant(s) will be kept informed as to the status of the complaint as well as the final resolution by the Commission. Please direct all inquiries to:

Accrediting Commission of Career Schools & Colleges
2101 Wilson Boulevard, Suite 302
Arlington, VA 22201
(703) 247-4212
www.accsc.org

A copy of the ACCSC Complaint Form is available at the school and may be obtained by contacting (name/position) or online at www.accsc.org.

The following is an outline of the Commission's procedures for reviewing complaints: (For further information on the Commission's procedures please refer to *Section VI, Rules of Process and Procedure, Standards of Accreditation.*)

1. All complaints that are reviewed by the Commission must be in written form and should include permission from the complainant for ACCSC to forward a copy of the complaint to the school. If permission is not included in the complaint letter, the Commission will forward a copy of the ACCSC Complaint Form requesting the complainant's permission. If a complainant does not submit a signed complaint form, the Commission, at its discretion, may not be able to process the complaint.

Permission is not necessary for advertising complaints since advertising is considered public information.

2. The Commission will conduct an initial review of the complaint to determine whether the complaint sets forth information or allegations that reasonably suggest that a school may not be in compliance with ACCSC standards or requirements.
 - a. If additional information or clarification is required, the Commission will send a request to the complainant. If the requested information is not received within 30 days, the complaint may be considered abandoned and not investigated by ACCSC.
 - b. If the Commission determines after the initial review of the complaint that the information or allegations do not reasonably suggest that a school may not be in compliance with ACCSC standards or requirements, the complaint may be considered closed and not investigated by ACCSC.
 - c. If the Commission determines after the initial review of the complaint that the information or allegations reasonably suggest that a school may not be in compliance with ACCSC standards or requirements, the Commission will forward the complaint to the school named in the complaint and will summarize the allegations, identify the ACCSC standards or requirements that the school allegedly violated, and allow the school an opportunity to respond. In the event that there is a pending on-site evaluation at the school, the on-site evaluation team and the school may be made aware of the complaint at any stage in this process. In all instances, the Commission will take the school's response to the complaint into consideration prior to rendering a decision.
3. In cases of advertising violations, the Commission will forward a copy of the advertisement to the school, citing the standard that may have been violated and requesting a response before a specific date.

4. If a news article or media broadcast carries a negative report on an ACCSC accredited school, the school is requested to respond to the statement(s) on or before a specific date.
5. The school will have an opportunity to submit a response to the complaint. The Commission will review the complaint and the response for compliance with accrediting standards and requirements.
6. If the Commission concludes that the allegations may establish a violation of ACCSC standards or requirements, the Commission will take appropriate action to require the school to achieve compliance as required and will send a letter to the complainant (and a copy to the school). A record of this file is maintained at the Commission's office.
7. If the Commission concludes that the allegations do not establish a violation of standards or requirements, The Commission will consider the complaint closed.
8. In all instances, the Commission will send a letter to the complainant and the school regarding the final disposition of the complaint, and a record of the complaint will be kept on file at the Commission's office.

Joint Review Committee on Education in Radiologic Technology (JRCERT) Complaint Process

Any student who wishes to pursue allegations of non-compliance with JRCERT Standards may do so by following the JRCERT Reporting Process located at www.jrcert.org/students/process-for-reporting-allegations/report-an-allegation. Before submitting an allegation, the individual must first attempt to resolve the complaint directly with JPU by following JPU's Grievance Policy and Procedure. The Grievance Policy and Procedure is provided in this Academic Catalog.

Important Notes for Reporting Allegations Against a Program

1. The JRCERT cannot advocate on behalf of any student(s). An investigation into allegations of non-compliance addresses only the program's compliance with accreditation standards and will not affect the status of any individual student.
2. The investigation process may take several months.
3. The JRCERT will not divulge the identity of any complainant(s) unless required to do so through legal process.

Process

Before submitting allegations, the individual must first attempt to resolve the complaint directly with program/institution officials by following the due process or grievance procedures provided by the program/institution. Each program/institution is required to publish its internal complaint procedure in an informational document such as a catalog or student handbook. (Standard One, Objective 1.6)

If the individual is unable to resolve the complaint with program/institution officials or believes that the concerns have not been properly addressed, he or she may submit allegations of non-compliance to the JRCERT:

Chief Executive Officer
Joint Review Committee on Education in Radiologic Technology
20 North Wacker Drive, Suite 2850
Chicago, IL 60606-3182

Ph: (312) 704-5300
Fax: (312) 704-5304
e-mail: mail@jrcert.org

The Allegations Reporting Form is located at www.jrcert.org/students/process-for-reporting-allegations/report-an-allegation and must be completed and sent to the above address with required supporting materials. All submitted documentation must be legible. Forms submitted without a signature or the required supporting material will not be considered. If a complainant fails to submit appropriate materials as requested, the complaint will be closed.

The Higher Education Opportunities Act of 2008, as amended, provides that a student, graduate, faculty or any other individual who believes he or she has been aggrieved by an educational program or institution has the right to submit documented allegation(s) to the agency accrediting the institution or program.

The JRCERT, recognized by the United States Department of Education for the accreditation of radiography, radiation therapy, magnetic resonance, and medical dosimetry educational programs investigates allegation(s) submitted, in writing, signed by any individual with reason to believe that an accredited program has acted contrary to the relevant accreditation standards or that conditions at the program appear to jeopardize the quality of instruction or the general welfare of its students.

Indiana Board for Proprietary Education Complaint Process

Complaints involving institutions under the Board for Proprietary Education's jurisdiction are handled through the Indiana Commission for Higher Education.

The Commission for Higher Education is responsible for responding to formal complaints against public, independent non-profit and proprietary institutions of higher education in Indiana. While the Commission has limited authority over colleges and universities, and cannot offer legal advice or initiate civil court cases, Commission staff will review submitted complaints and work with student complainants and institutions.

- **Discrimination:** If a student believes that an institution has acted in a discriminatory manner, he/she may wish to contact the Indiana Civil Rights Commission (ICRC) using the ICRC's complaint form located at www.in.gov/che/2744.htm or call them at (800) 628-2909.
- **Financial Aid:** If a student has been denied state of Indiana financial aid, they may file an appeal form located at www.in.gov/che/2744.htm or direct any questions to the Student Support Center by calling 1 (888) 528-4719.
- **Law Violations:** If a student believes that a college or university has violated state or federal law, he/she may wish to contact the Office of the Indiana Attorney General at (317) 232-6201 or Constituent@atg.in.gov.

After filing a complaint with the Attorney General's Office or ICRC without resolution, the student may still hire an attorney and adjudicate the complaint through the court system.

OTHER COMPLAINTS

Within two years of the incident about which the student is complaining, he/she must contact the Commission for Higher Education using the complaint form located at www.in.gov/che/2744.htm.

Please note that the Commission cannot, by law, review complaints related to course grades, academic sanctions or discipline/conduct matters. In other areas, such as transferring credits between public institutions, the Commission has greater statutory authority.

Please follow the steps outlined below to submit a complaint:

STEP 1

If a student has concerns related to classroom situations or administrative actions, he/she should contact the faculty or staff member(s) with whom he/she has a conflict. It may be possible to resolve the concerns without the need for formal institutional action. However, if the student's complaint is not resolved satisfactorily, or if the complaint cannot be resolved by contacting the faculty or staff member(s), the student should proceed to STEP 2.

STEP 2

The student should file a complaint through his/her institution of higher education's established complaint process. Information on the process can usually be found in the institution's Student Handbook, Academic Catalog or website. If the student is unable to resolve the complaint in this manner, he/she should proceed to STEP 3.

STEP 3

After receiving a complaint through our complaint form, Commission staff will review the submitted materials and contact the submitter for any required additional information or clarifications. The Commission will then send a copy of the complaint to the institution against which the complaint has been filed and ask for a response within three weeks. After receiving the college or university's response, Commission staff will determine whether the institution's student complaint process has been followed and exhausted and what additional steps or follow-up may be taken. The Commission will inform both parties involved in the complaint.

If you have additional questions about the complaint process, or want to clarify that your individual complaint is reviewable by the Commission, please feel free to contact complaints@che.in.gov.

Anti-Hazing and Bullying Policy

JPU is dedicated to promoting a safe and healthy campus environment for its students, faculty, staff and visitors. In addition, JPU is committed to promoting an environment that fosters respect for the dignity and rights of all its community members. As such, the University will not tolerate hazing activities or bullying by any individuals, groups, or recognized student organizations.

Hazing and bullying poses substantial risks to the safety and well-being of individual students and the University community. As such, violations of this policy will result in referral to the Office of Administration and possible disciplinary action which may include, but not be limited to, any or all of the following: suspension or expulsion from the University, loss of University recognition and

privileges, referral to law enforcement, inability to participate in educational programs, and other educational or remedial action appropriate to the circumstances.

Sexual Harassment Policy

In an effort to provide a safe and productive educational and working environment for students, faculty, and staff, John Patrick University of Health and Applied Sciences (JPU) has adopted the following policy to promote an environment free of sex and gender discrimination, sexual harassment, sexual assault, sexual misconduct, interpersonal violence (including domestic violence and dating violence), and stalking. Gender discrimination includes discrimination on the basis of gender orientation, gender identity, or gender expression.

Policy Statement

JPU prohibits discrimination on the basis of sex and gender and prohibits sexual harassment, sexual assault, sexual misconduct, interpersonal violence, stalking, physical abuse, threats of violence, physical assault, or any form of sexual violence. These behaviors are hereafter referred to as prohibited conduct. Individuals who participate or attempt to participate in prohibited conduct are subject to disciplinary action by JPU, regardless of any action that may be taken by civil or criminal authorities.

JPU strongly encourages students, faculty, and staff to promptly report incidents of prohibited conduct to the University, as well as appropriate local or state authorities. University leadership is required to promptly report incidents of prohibited conduct. JPU will respond to all reports of prohibited conduct. JPU leadership will conduct a prompt and impartial investigation of all reported incidents of prohibited conduct in an effort to determine a resolution. The burden of proof is met during an investigation of prohibited conduct if the incident is more likely to have occurred than not.

Scope

This policy applies to all JPU staff, faculty, students, graduates, visitors, applicants for admission, applicants for employment, and third party servicers and affiliates of the University. JPU reserves the right to investigate any incident reported, whether it occurs on campus, or off-campus during any official function.

Reporting a Violation

JPU encourages any individual who has experienced prohibited conduct or witnessed an occurrence of prohibited conduct to promptly report the incident to the Director of Administrative Services at bdatema@Rtuvt.edu or by calling 574-232-2000.

Individuals who wish to report an incident anonymously are encouraged to use the following hotline or website hosted by a third party hotline provider, EthicsPoint:

Hotline: 855-673-1151

Website: www.JPU.ethicspoint.com

The information you provide will be sent to JPU through EthicsPoint on a completely confidential and anonymous basis if you should choose.

EthicsPoint is NOT a 911 or Emergency Service. Do not use this site to report events presenting an immediate threat to life or property. Reports submitted through this service may not receive an

immediate response. If you require emergency assistance, please call 911 or contact your local authorities.

Individuals may contact SBPD (South Bend Police Department) whenever they witness criminal activity or feel threatened by potential criminal activity, including sexual offenses while on or near campus. Observations ranging from crimes in progress to suspicious behavior can and should be reported to SBPD. You may either contact SBPD at 911 for emergencies or at 574-235-9201.

In case of an emergency you may dial 911 from any phone on campus. Simply select a line and dial 9-1-1. There is no need to dial 9 first.

In case of a non-emergency you may dial 574-235-9201 to reach the desk sergeant where your call will be directed appropriately. JPU strongly encourages reporting of serious and continuing occurrences of crimes or threats to the South Bend Police Department.

JPU strongly encourages any student or employee who is a victim or witness of a violent crime to report the crime to law enforcement as soon as possible.

After authorities have been contacted and there is not eminent danger, please contact Director of Administrative Services at 574-232-2000, bdatema@Rtuvt.edu.

JPU does not tolerate retaliation against a person who reports prohibited conduct, assists or encourages someone to report a violation, or participates in any manner in an investigation of prohibited conduct. Retaliation may include, but is not limited to threats, intimidation, and/or adverse actions related to employment or education.

Support Services

Refer to the Annual Security Report and Fire Safety Report updated annually for complete information on definitions, safety programs and awareness, and support services available.

Students are also encouraged to take advantage of counseling and support services provided by WellConnect. Counseling services are available 24/7 by calling 866-640-4777 or visiting www.studentlifetools.com.

Investigation and Disciplinary Process

When a report of prohibited conduct is received, JPU leadership will promptly respond and investigate the report in a fair and impartial manner. If the individual or individuals who report an incident choose not to participate in the investigation, the University may pursue the report without their participation.

The purpose of the investigation is to gather and interpret evidence in an effort to address the complaint and take corrective action, if necessary. The burden of proof in an investigation is met when it is more likely than not that the reported incident occurred and the incident is classified as prohibited conduct under this policy.

Interference with an investigation is strictly prohibited and any individual who knowingly and intentionally interferes with an investigation may receive disciplinary action including dismissal or separation from JPU.

JPU leadership will attempt to complete any investigation as soon as reasonably possible. Ideally, the investigation and any resulting sanctions or actions will be concluded within four weeks of the date the incident was reported. Due to the nature of a report and parties involved, it may be necessary for JPU leadership to take preliminary action while the incident is being investigated.

Possible outcomes of an investigation could be:

- Finding that the burden of proof cannot be met
- Referral to the appropriate authorities for correction action
- Corrective action provided by the University
- Possible termination of University staff/faculty
- Possible probation, suspension, or dismissal of the student or students

Education and Prevention

JPU promotes prevention and security awareness through the Annual Security Report and Fire Safety Report. Bystander intervention can also be a powerful tool in preventing prohibited conduct. JPU is committed to nurturing a culture of accountability among all students, staff, faculty, and third party affiliates to prevent prohibited conduct.

Pregnancy Policy

Students should understand that a pregnancy during the Master of Medical Dosimetry program may have an impact on their education and possibly upon the timing of graduation. Two important factors are involved.

1. Courses are only offered at select times each year and time missed for pregnancy and/or delivery will likely necessitate make up work or perhaps delay of up to a year to maintain the proper sequence of courses, depending on the timing and amount of time missed.
2. There are potential risks to an embryo or fetus secondary to radiation exposure that may require advising and alteration of the clinical education experience.

The following policy has been developed to guide the program and its students in the event of a student pregnancy.

- A. Female students are asked to read The U. S. Nuclear Regulatory Commission Regulatory Guide 8.13 regarding [“Possible Health Risks to Children of Women Who are Exposed to Radiation During Pregnancy”](http://www.nrc.gov/docs/ML0037/ML003739505.pdf) as well as the pregnancy policy and complete and return the associated form. This document can be found at: <http://pbadupws.nrc.gov/docs/ML0037/ML003739505.pdf>.
- B. All students will be made aware of risks and hazards of prenatal radiation exposure during coursework at JPU and upon orientation to the clinical internship.
- C. A student who is pregnant, or suspects that she may be, has the option to voluntarily declare that condition to program officials.
 - a. If the student decides to declare the pregnancy it shall be done in writing to the Program Director and/or the Clinical Supervisor of her internship site. The notification shall also include the expected date of delivery.
 - b. A student may reverse their pregnancy declaration at any time. This option is voluntary and the reversal must be provided in writing to the Program Director and/or the Clinical Supervisor of her internship site.
 - c. The program will comply with student confidentiality requests as much as possible.

- D. If a student chooses to declare a pregnancy, an advising session will be set up with the radiation safety officer at the student's clinical internship site to review radiation exposure risks and any additional monitoring practices which may be initiated.
- E. A declared pregnant student may choose one of the options below (or may choose to change to a different option at a later time if desired, with written notice):
 - a. Take a leave of absence from the program. (See policy for leave of absence.) Should the declared pregnant student decide to leave the program during pregnancy and delivery, tuition will be refunded according to the Tuition Refund Policy. In this circumstance the student would be readmitted to the program at the first available opening after delivery.
 - b. Stay in the program, but make modifications in her clinical rotation schedules to reduce the chance of exposure to the fetus.
 - i. For example, she will not participate in site specific rotations as recommended by the Radiation Safety Officer during the time of the pregnancy. Competency and experience in all required areas will be made up following delivery. This could delay graduation beyond the originally expected date.
 - c. Stay in the program and/or internship during pregnancy and continue the program without modification of learning activities or clinical rotations. If she decides to do this, she does so in full knowledge of the potential hazard of embryo/fetal radiation exposure.
 - i. It is recommended that the student consult their personal physician should they choose this option. The student must also indicate, in writing her intention to continue the program without modification. A copy of this document will be kept in the student's file.

Should delivery occur during clinical internship, all course work and clinical time must be completed before the student is eligible for graduation.

Student Radiation Safety Policy:

- A. Students entering the clinical setting for their internship must receive orientation to radiation safety practices and requirements by the Radiation Safety Officer.
- B. A radiation monitoring badge must be worn by the student at all time while in the department. JPU assigns a dosimeter to each student prior to entering their clinical setting.
- C. Students assisting in the simulator and treatment units must never be in the room during exposure to treatments
- D. Students working in brachytherapy must remember and put to use techniques of time, distance, and shielding.
- E. Radiation exposure levels will be monitored by the University RSO annually. If a student's radiation exposure reading exceeds (30 mrem) on a single report, the program director must be informed immediately. The RSO and program director will investigate the reason for the reading and determine an action plan within 10 days to ensure that the student follows ALARA principles.
- F. If the student exceeds the trigger dose limit (30 mrem) on any personal monitoring report, the student must be removed from the clinical setting and counseled immediately by the University RSO on how to avoid further exposure.
- G. Notification: Students in the clinical setting have access to their readings at any time through a secure username and password. Students receive notifications monthly telling them to review their reading or contact the clinical coordinator. Correspondence to students monthly also includes informing them of the trigger dose of 30 mrem and the procedure to follow if their reading exceeds the trigger dose on a single reading. Annual reports reviewed by the

University RSO are provided to the student within 30 school days after being reviewed. Students receive the report through their University student account through a secured username and password. No personal information will be visible to individuals other than the one named on the report.

Student Clinical Compensation and Hours Requirement Policy

Students entering the clinical setting for their internship are only required to work twenty-four (24) hours per week and for no more than ten (10) hours per day when enrolled in 16 credits.

Medical Physics Program: The minimum required hours for the Clinical Internship is one hundred eighty hours (180).

Medical Dosimetry Programs: The minimum required hours for the Clinical Internship is seven hundred twenty hours (720). For students who enrolled in their program of study prior to January 4, 2016, the minimum required hours for the Clinical Internship is one hundred eighty hours (180). The minimum required hours for the Clinical Internship is one hundred eighty hours (180) for Certified Medical Dosimetrists entering the program.

The student is entitled to no compensation while performing competencies for the clinical internship. Any extra hours the student chooses to spend are purely voluntary and the student is entitled to no compensation or extra credit of any kind.

Drug and Alcohol Abuse Prevention Program and Policy

Purpose of Policy

It is the policy of the school that illicit drugs and alcohol use, manufacture, unlawful possession, sale, distribution, or dispensation by any student or employee on the school's property or as part of any of the school's activities is strictly prohibited. JPU is concerned about the potential adverse effects of alcohol or other drug use on student health and safety, as well as academic performance and patient care.

The school is committed to provide students, faculty, staff and visitors with a safe and healthful campus and workplace. The school recognizes the health risks associated with controlled substance use and alcohol misuse and is committed to supporting students and employees who seek treatment for these conditions. The School recognizes that controlled substance use and alcohol misuse diminish workplace and campus safety and undermine the school's ability to fulfill its mission. Therefore, an Alcohol-and Drug-Free Campus/workplace Policy has been developed. Compliance with this policy is considered a condition of employment and attendance at the School.

JPU reserves the right to revoke admission based on an adverse fingerprint or drug screening. Students are expected to report to class and clinical agencies in the appropriate mental and physical condition conducive to learning and the provision of safe patient care.

This policy is distributed in writing annually to students, staff and faculty.

Definitions

The following terms are defined for the purposes of this policy and are important for purposes of expressing the school's policy on a drug free campus:

Controlled Substance means a controlled substance in schedules I through V of section 202 of the Controlled Substances Act (21 U.S.C. 812), as further defined by regulations at 21 CFR 1300.11 through 1300.15, and as defined in the Official Code of Georgia Annotated (O.C.G.A.), Sections 16-13-35 to 16-13-39.

Contract means a legal instrument reflecting a relationship between the federal government and a recipient whenever the principal purpose of the instrument is the acquisition by purchase, lease, or barter, of property or services for the direct benefit or use of the federal government; or whenever an executive agency determines in a specific instance that the use of a type of procurement contract is appropriate.

Conviction means finding of guilt (including a plea of NOLO contendere) or imposition of sentence, or both, by any judicial body charged with the responsibility to determine violations of the federal or state criminal drug statutes;

Criminal drug statute means a federal or non-federal criminal statute involving the manufacture, sale, distribution, dispensation, use, or possession of any controlled substance;

Employee means an individual receiving a salary, wages, other compensation and/or stipend support from the university.

Federal agency or agency means any United States executive department, military department, government corporation, government controlled corporation, or any other establishment in the executive branch (including the Executive Office of the President), or any independent regulatory agency.

Grant means an award of financial assistance, including a cooperative agreement, in the form of money, or property in lieu of money, by a federal agency directly to a grantee. The term grant includes block grant and entitlement grant programs, whether or not exempted from coverage under the grants management government wide regulation ("Uniform Administrative Requirements for Grants and Cooperative Agreements to State and Local Governments"). The term does not include technical assistance which provides services instead of money, or other assistance in the form of loans, loan guarantees, interest subsidies, insurance, or direct appropriations; or any veteran's benefits to individuals, i.e., any benefit to veterans, their families, or survivors by virtue of the Service of a veteran in the Armed Forces of the United States.

Grantee means a legal entity which applies for or receives a grant or contract directly from a federal agency.

Illicit drug use means the use of illegal drugs and the abuse of other drugs and alcohol.

Student means an individual registered or enrolled for credit or non-credit in a course or program offered by the university or any of its units.

School activities mean an activity officially sponsored by JPU.

Workplace means the physical boundaries of the School and facilities owned or controlled by the School.

Philosophy

The unlawful use of drugs or abuse of other drugs and alcohol is inconsistent with the behavior expected of members of the School community. The School is committed to the development and maintenance of a drug-free environment on the campus as well as an environment that prohibits the abuse of other drugs and alcohol and has a drug and alcohol abuse prevention system in operation, accessible to all members of the School community. The School is committed to the further expansion of that program and the dissemination of drug awareness information to the members of the School community. In addition, the School is committed to enforcing the provisions of the Drug Free Communities and Schools Act Amendments of 1989 (Public Law 101-226) and the Georgia Drug-Free Postsecondary Act of 1990

Policy

As required by the Federal Drug-Free Schools and Communities Act Amendment of 1989, you are hereby notified by JPU that on JPU premises, affiliated clinical sites, or at other JPU sponsored events, activities specified as critical offenses will not be permitted. Students shall be prohibited from working, attending school, participating in clinical internships or attending JPU related functions while under the influence of alcohol and/or the use of illicit drugs. The use of such substances by students on premises or at JPU related functions shall be prohibited. Such conduct by a student shall be considered a critical offense.

To protect the health and safety of all persons, the use of tobacco products is prohibited on the school campus. Violation of the policy is a serious offense that could result in disciplinary action up to and including dismissal.

JPU recognizes that substance abuse is a major problem that affects students, families, education, and communities. JPU strictly opposes any situation that interferes with a student's safety, health and well-being, and anything that adversely affects academic performance, patient care, or is detrimental to the campus. To promote this goal and in accordance with the Federal Drug-Free Schools and Communities Act Amendment of 1989 and state law, JPU strictly prohibits the unlawful manufacture, distribution, possession, sale, or use of any illegal drugs, controlled substances, or alcohol while acting in the course of enrollment, on JPU owned, leased, or controlled property, while operating JPU owned, leased, or controlled equipment or vehicles, or at JPU sponsored functions. Students are required to report to their faculty use of any over-the-counter medication or prescribed medication that might impair a student's ability to participate in the educational process safely or effectively.

The school will impose sanctions on any student who violates this policy. Sanctions include:

4. Administrative Hold – the student is unable to enroll in courses until requirements to remove the Administrative Hold status are met. Requirements to remove the Administrative Hold status are provided with the Administrative Hold notification.
5. Dismissal from John Patrick University of Health and Applied Sciences
6. Removal from the student's clinical internship – Any student participating in their clinical internship may be removed from their internship setting temporarily or permanently based on guidance from JPU and the clinical site.

Student Use of Alcoholic Beverages

All students are responsible for complying with State law regarding the use of alcohol

- The age in most states is 21 to be in possession of alcoholic beverages
- Persons 21 or over may not make alcoholic beverages available to minors

- Misrepresentation of age for the purpose of purchasing alcoholic beverages is a violation of state law.

Health Risks

The following briefly summarizes health risks and symptoms associated with the use of alcohol and other drugs. It is important to note that individuals experience alcohol and drugs in different ways based on physical tolerance, body size and gender, and on a variety of other physical and psychological factors.

The health risks associated with the misuse and abuse of drugs, including controlled substances and alcohol, include but are not limited to: Physical and psychological dependence; damage to the brain, pancreas, kidneys and lungs; high blood pressure; heart attacks; strokes, ulcers, birth defects; a diminished immune system; and death.

Alcohol: Alcohol consumption causes a number of changes in behavior. Even low doses significantly impair the judgment and coordination required to drive a car safely, increasingly the likelihood that the driver will be involved in an accident. Low to moderate doses of alcohol also increase the incidence of a variety of aggressive acts. Moderate to high doses of alcohol cause marked impairments in higher mental functions severely altering a person's ability to learn and remember information. Very high doses cause respiratory depression and death. If combined with other depressants of the central nervous system, much lower doses of alcohol will produce the effects just described. Repeated use of alcohol can lead to dependence. Sudden cessation of alcohol intake is likely to produce withdrawal symptoms, including severe anxiety, tremors, hallucinations and convulsions. Long-term consumption of large quantities of alcohol can also lead to permanent damage to vital organs such as the brain and the liver. Mothers who drink during pregnancy may give birth to infants with fetal alcohol syndrome. These infants have irreversible physical abnormalities and mental retardation. In addition, research indicates that children of alcoholic parents are at greater risk than others of developing alcohol related problems.

Cigarettes and other Nicotine Products: In 1989, the U.S. Surgeon General issued a report that concluded that cigarettes and other forms of tobacco, such as cigars, pipe tobacco and chewing tobacco, are addictive and that nicotine is the drug in tobacco that causes addiction. In addition, the report determined that smoking was a major cause of stroke and the third leading cause of death in the United States. Nicotine is both a stimulant and a sedative to the central nervous system. Nicotine is absorbed readily from tobacco smoke in the lungs, and it does not matter whether the tobacco smoke is from cigarettes, cigars, or pipes, Nicotine also is absorbed readily when tobacco is chewed.

In addition to nicotine, cigarette smoke is primarily composed of a dozen gases (mainly carbon monoxide) and tar. The tar in a cigarette, which varies from about 15 mg for a regular cigarette to 7 mg in a low-tar cigarette, exposes the user to a high expectancy rate of lung cancer, emphysema, and bronchial disorders. The carbon monoxide in the smoke increases the chance of cardiovascular diseases. The Environmental Protection Agency has concluded that secondhand smoke causes lung cancer in adults and greatly increases the risk of respiratory illnesses in children and sudden infant death.

Prescription Medications: Prescription drugs that are abused or used for non-medical reasons can alter brain activity and lead to dependence. Commonly abused classes of prescription drugs include opioids (often prescribed in the treatment of pain), central nervous system depressants (often prescribed to treat anxiety and sleep disorders), and stimulants (prescribed to treat narcolepsy, ADHD,

and obesity). Long-term use of opioids or central nervous system depressants can lead to physical dependence and addiction. Taken in high doses, stimulants can lead to compulsive use, paranoia, dangerously high body temperatures and irregular heartbeat.

Marijuana: Marijuana use can lead to a number of long term and short term physical and psychological effects. Marijuana use leads to a substantial increase in the heart rate, impairs short term memory and comprehension and motivation can be altered.

Cocaine and Crack: Health risks may include changes in body temperature and blood pressure as well as heart and breathing rates. Even small amounts may cause the body to exceed its own limits, sometimes resulting in death. Snorting cocaine may severely damage nasal tissue and the septum. Smoking cocaine may damage the lungs. Someone using cocaine may experience muscle twitching, panic reactions, anxiety, numbness in hands and feet, loss of weight, a period of hyperactivity followed by a crash, a runny or bleeding nose, and depression. Other symptoms of cocaine use may include nausea, vomiting, insomnia, tremors, and convulsions. Chronic users may become paranoid and/or experience hallucinations.

Barbiturates: In small doses, barbiturates produce calmness, relaxed muscles, and lowered anxiety. Larger doses cause slurred speech, staggering gait, and altered perception. Very large doses or doses taken in combination with other central nervous system depressants (e.g., alcohol) may cause respirator depression, coma and even death. A person who uses barbiturates may have poor muscle control, appear drowsy or drunk, become confused, irritable, or inattentive, or have slowed reactions.

Amphetamines: Amphetamines, methamphetamines, or other stimulants can cause increased heart rate and respiratory rates, elevated blood pressure, and dilated pupils. Larger doses cause rapid or irregular heartbeat, tremors, and physical collapse. An amphetamine injection creates a sudden increase in blood pressure that can result in stroke, high fever, heart failure and death. An individual using amphetamines might begin to lose weight, have the sweats, and appear restless, anxious, moody, and unable to focus. Extended use may produce psychosis, including hallucinations, delusions and paranoia.

Hallucinogens: PCP, or angel dust, interrupts the part of the brain that controls the intellect and keeps instincts in check. PCP blocks pain receptors. Violent episodes, including self-inflicted injuries, are not uncommon. Chronic users report memory loss and speech difficulty. Very large doses produce convulsions, coma, heart and lung failure, or ruptured blood vessels in the brain. LSD, mescaline, peyote, etc. cause dilated pupils, elevated body temperature, increased heart rate and blood pressure and tremors. Someone under the influence of PCP might appear moody, aggressive, or violent. Sleeplessness, confusion, anxiety, and panic, and may report perceptual distortions. Flashbacks may occur.

Steroids (anabolic): Anabolic steroids are human-made substances related to male sex hormones. Some athletes abuse anabolic steroids to enhance performance. Abuse of anabolic steroids can lead to serious health problems, some of which are irreversible. Short term side effects include depression, hallucinations, paranoia, severe mood swings and aggressive behavior. Major side effects also can include liver tumors and cancer, jaundice, high blood pressure, kidney tumors, severe acne and trembling. In males side effects may include shrinking of the testicles and breast development. In females, side effects may include growth of facial hair, menstrual changes and deepened voice. In teenagers, growth may be halted prematurely and permanently.

Narcotics: Because narcotics are generally injected, the use of contaminated needles may result in the contraction of many different diseases, including AIDS and hepatitis. Symptoms of overdose include shallow breathing, clammy skin, convulsions, and coma and may result in death. Some signs of narcotic use are euphoria, drowsiness, constricted pupils, and nausea. Other symptoms include itchy skin, needle or “track” marks on the arms and legs, nodding, lack of sex drive and appetite, sweating, cramps and nausea when withdrawing from the drug.

Treatment

Medication and behavioral therapy, alone or in combination, are aspects of an overall therapeutic process that often begins with detoxification, followed by treatment and relapse prevention. Easing withdrawal symptoms can be important in the initiation of treatment; preventing relapse is necessary for maintaining its effects. And sometimes, as with other chronic conditions, episodes of relapse may require a return to prior treatment components. A continuum of care that includes a customized treatment regimen, addressing all aspects of an individual’s life including medical and mental health services, and follow-up options (e.g. community or family based recovery support systems) can be crucial to a person’s success in achieving and maintaining a drug-free lifestyle.

Procedure

All students must, as a condition of their enrollment, adhere to this policy. Students are responsible for notifying the administration within five (5) days of any drug and/or alcohol related criminal conviction while enrolled as a student at JPU. Students must certify that, as a condition of enrollment or receiving financial aid, that he or she will not engage in the unlawful manufacture, distribution, dispensation, or the use of a controlled substance during the period covered by enrollment or where federal financial assistance is used for education. Violations of this prohibition will result in dismissal and/or other appropriate actions.

JPU reserves the right to take appropriate and lawful action to enforce this Drug and Alcohol-Free Campus Policy. These rights include drug and/or alcohol testing and inspection of any and all JPU and student property when the organization has a reasonable suspicion that this policy has been violated. JPU may ask a student to submit to drug and/or alcohol testing at any time it is suspected that a student may be under the influence of drugs or alcohol, including, but not limited to, the following circumstances:

- evidence of drugs or alcohol on the student’s person or in the student’s vicinity,
- unusual conduct or behavior on the student’s part that suggests impairment or influence of drugs and/or alcohol,
- involvement in an accident or injury event,
- negative performance patterns.

JPU reserves the right to conduct random drug and/or alcohol testing in order to assess compliance with this policy. Students may be selected at random for drug and/or alcohol testing at any interval as determined by JPU.

Students involved in school-related accidents that require off-site medical treatment or result in property damage will be tested for controlled substances and alcohol. Any student who refuses to be tested or violates this policy is subject to disciplinary action up to and including dismissal. JPU encourages students with drug and/or alcohol abuse problems to seek counseling and treatment.

This policy is in compliance with the U.S. Department of Education and the Drug-free Schools and Communities Act Amendment of 1989, P.L. 101-226 20 U.S.C.'s 114 5g Higher Education Act of 1965, Section 1213.

Resources

In addition to the imposition of disciplinary sanctions as explained in this Code of Conduct including dismissal for such act, students or employees may face prosecution and imprisonment under federal and state laws which make such acts felony or misdemeanor crimes.

JPU is committed to helping students who seek assistance and further recognize and insure the confidentiality and privacy due students. Students are encouraged to consult with Student Resource Services, which provides confidential and professional guidance for substance abuse problems. This service is anonymous and completely free to students.

Self-referrals, as well as supervisory referrals, for drug counseling, treatment, rehabilitation, and re-entry programs are available to students and employees through Student Resource Services.

A specialist can be reached by telephone 24 hours a day, including holidays and weekends.

Contact Information:

Student Resource Services School ID: R852

Phone: 866-640-4777

Online: www.studentlifetools.com

National Resources for Drug and Alcohol Abuse Prevention, Education, and Support:

Alcoholics Anonymous	Support for people who want to Achieve sobriety	www.alcoholics-anonymous.org
Al-Anon Family Group	Support and help for families and Friends of problem drinkers	www.al-anon.alateen.org
Narcotics Anonymous	Support in a recovery environment For people who abuse substances	www.na.org
Substance Abuse and Mental Health Services Administration	U.S. Department of Health and Human Services agency “that Leads public health efforts to Advance the behavioral health of The nation... and whose mission is To reduce the impact of substance Abuse and mental illness on America’s communities.”	www.samhsa.gov/

Drug Law Violations—Eligibility for Title IV Funding

For the protection and welfare of all students and employees, JPU has established a drug-free policy. In addition to the civil and/or criminal penalties for a conviction for any offense during a period of enrollment for which the student was receiving Title IV, HEA program funds, under any federal or state law involving the possession or sale of illegal drugs, this conviction will result in the loss of

eligibility for any Title IV, HEA grant, loan, or work-study assistance. See the Notice of Federal Aid Penalties for Drug Law Violations distributed to all students upon enrollment.

Education

The JPU Administration is involved in educating students about alcohol and other drugs. In particular, during orientation, drug and alcohol abuse are discussed and information disseminated.

Enforcement

The President and Vice President of Academic Affairs and Academic Dean enforce policies and laws regarding alcohol and other drug use. Students and staff are referred to various agencies to receive help with drug or alcohol problems,

Faculty: Faculty who violate the school's standards of conduct are subject to disciplinary action including reprimand, suspension, or dismissal.

Other Employees: The school may impose sanctions against any employee who violates Federal, State or local laws, or the standards of school conduct. Depending on the nature and severity of the violation, these sanctions can range from warnings and/or mandatory referral for drug or alcohol rehabilitation to outright termination of employment.

Helpful Websites:

http://www.brainsource.com/brain_on_drugs.htm

<http://www.nida.nih.gov>

Local, State, and Federal Legal Sanctions

The following information highlights the criminal penalties that can be imposed by state or federal statute for violations regarding alcohol or illegal drug possession, use, sale, manufacture, or distribution. Convictions under state and/or federal laws regarding alcohol-related and drug-related offenses can result in fines, confiscation of automobiles and other property, loss of one's driver's license, imprisonment, and in some cases, loss of licenses or certifications in certain professions and employment opportunities may be prohibited.

In short, all persons should be aware of the following:

- In Indiana, any person under 21 who possesses an alcoholic beverage, and any person who provides alcohol to any person under 21, is at risk of arrest
- Any person who is intoxicated in public is at risk of arrest
- A person convicted of driving while intoxicated may be punished by fine, be jailed, and lose his or her driver's license
- Any selling of alcoholic beverages without a license is illegal
- Possession, use, distribution, or manufacture of controlled substances (drugs) illegally can result in arrest and conviction of a drug law violation and:
 - Fines up to \$10,000 (Indiana);
 - Fines up to \$10 million for a first offense (federal);
 - Imprisonment up to 50 years (Indiana);
 - Imprisonment for life (federal); and
 - Confiscation of property

The following shows the Federal penalties:

Federal Trafficking Penalties				
DRUG/SCHEDULE	QUANTITY	PENALTIES	QUANTITY	PENALTIES
Cocaine (Schedule II)	500 – 4999 gms mixture	First Offense: Not less than 5 yrs. And not more than 40 years. If Death or serious injury, not less than 20 or more than life. Fine of not more than \$2 million if an individual, \$5 million if not an individual.	5 kgs or more mixture	First Offense: Not less than 10 yrs, and not more than life. If death or serious injury, not less than 20 or more than life. Fine of not more than \$4 million if an individual, \$10 million if not an individual.
Cocaine Base (Schedule II)	5 - 49 gms mixture		50 gms or more mixture	
Fentanyl (Schedule II)	40 - 399 gms mixture		400 gms or more mixture	
Fentanyl Analogue (Schedule I)	10 - 99 gms mixture		100 gms or more mixture	
Heroin (Schedule I)	100 - 999 gms mixture		1 kg or more mixture	
LSD (Schedule I)	1 – 9 gms mixture	Second Offense: Not less than 10 yrs, and not more than life. If death or serious injury, life imprisonment. Fine of not more than \$4 million individual: \$10 million other than individual	10 gms or more mixture	Not less than 20 yrs, and not more than life. If death or serious injury, life imprisonment. Fine of not more than \$8 million if an individual, \$20 million if not an individual.
Methamphetamine (Schedule II)	5 – 49 gms pure or 50 – 499 gms mixture		50 gms or more pure or 500 gms or more mixture	
PCP (Schedule II)	10 – 99 gms pure or 100 – 999 gms mixture		100 gm or more pure or 1 kg or more mixture	
PENALTIES				
Other schedule I & II drugs (and any drug product containing Gamma Hydroxybutyric Acid)	Any amount	First Offense: Not more than 20 yrs. If death or serious injury, not less than 20 yrs, or more than Life. Fine \$1 million if an individual, \$5 if not an individual Second Offense: Not more than 30 yrs. If death or serious injury, not less than life. Fine \$2 million if an individual, \$10 million if not an individual.		
Flunitrazepam (Schedule IV)	1 gm or more			
Other Schedule III drugs	Any amount	First Offense: Not more than 5 years. Fine not more than \$250,000 if an individual, \$1 million if not an individual.		

Flunitrazepam (Schedule IV)	30 to 999 mgs	Second Offense: Not more than 10 yrs. Fine not more than \$500,000 if an individual, \$2 million if not an individual.
All other Schedule IV drugs	Any amount	First Offense: Not more than 3 years. Fine not more than \$250,000 if an individual, \$1 million if not an individual.
Flunitrazepam (Schedule IV)	Less than 30 mgs	Second Offense: Not more than 6 yrs. Fine not more than \$500,000 if an individual, \$2 million if not an individual.
All Schedule V drugs	Any amount	First Offense: Not more than 1 yr. Fine not more than \$100,000 if an individual, \$250,000 if not an individual. Second Offense: Not more than 2 yrs. Fine not more than \$200,000 if an individual, \$500,000 if not an individual

Federal Trafficking Penalties – Marijuana

DRUG	QUANTITY	1 ST OFFENSE	2 ND OFFENSE
Marijuana	1,000 kg or more mixture; or 1,000 or more plants	- Not less than 10 years, not more than life - If death or serious injury, not less than 20 years, not more than life - Fine not more than \$4 million if an individual, \$10 million if other than an individual	- Not less than 20 years, not more than life - If death or serious injury, mandatory life - Fine not more than \$8 million if an individual, \$20 million if other than an individual
Marijuana	to 999 kg mixture; or 100 to 999 plants	- Not less than 5 years, not more than 40 years - If death or serious injury, not less than 20 years, not more than life - Fine not more than \$2 million if an individual, \$5 million if other than an individual	- Not less than 10 years, not more than life - If death or serious injury, mandatory life - Fine not more than \$4 million if an individual, \$10 million if other than an individual
Marijuana	More than 10 kgs hashish; 50 to 99 kg mixture More than 1 kg of hashish oil; 50 to 99 plants	- Not more than 20 years - If death or serious injury, not less than 20 years, not more than life - Fine \$1 million if an individual, \$5 million if other than an individual	- Not more than 30 years - If death or serious injury, mandatory life - Fine \$2 million if an individual, \$10 million if other than individual
Marijuana	to 49 plants; less than 50 kg mixture	- Not more than 5 years - Fine not more than \$250,000, \$1 million other than individual	- Not more than 10 years - Fine \$500,000 if an individual, \$2 million if other than individual
Hashish	110 kg or less		
Hashish Oil	1 kg or less		

Biennial Review

JPU conducts a biennial reviews of its program to:

- Determine the effectiveness of the program and implement changes as needed.
- Determine the number of drug and alcohol-related violations and fatalities that occur on the school's campus or as part of the school's activities, and are presorted to campus officials
- Determine the number and type of sanctions that are imposed
- Ensure that disciplinary sanctions are consistently enforced.

Biennial review results are made available to students and employees. Upon request, JPU will make biennial reviews available to the U.S. Department of Education and to the public, including information distributed to students and employees.

Dismissal

John Patrick University of Health and Applied Sciences reserves the right to dismiss any student from the program for any of the following reasons:

- ✓ Non-compliance of the rules and regulations of John Patrick University of Health and Applied Sciences
- ✓ Engagement in any illegal or criminal act
- ✓ Any conduct that brings discredit or embarrassment to John Patrick University of Health and Applied Sciences
- ✓ Failure to meet standards of satisfactory academic progress
- ✓ Failure to satisfy financial obligations to John Patrick University of Health and Applied Sciences

Student Records

All documentation and records pertaining to students are held in strict confidence as afforded by law. It is also an ethical policy of the John Patrick University of Health and Applied Sciences to do so. Student records will be retained indefinitely by John Patrick University of Health and Applied Sciences. Information on students is not available to anyone without one of the following:

- ✓ Written request or release signed by the student
- ✓ A court order
- ✓ An oversight agency's requirement

Family Educational Rights and Privacy Act

All students enrolled at John Patrick University of Health and Applied Sciences-VT shall have the right to inspect and review their educational records, to request corrections and deletions, and to limit disclosure with the Family Educational Rights and Privacy Act of 1974. The procedure for exercising these rights is available to students upon request at the office of the Executive Director.

Student records are kept on file in an appropriate and secure location. They are confidential and are available for approved purposes only by authorized employees. In accordance with the Family Educational Rights and Privacy Act of 1974, the college will not release educational records to unauthorized persons without the prior written consent of the student or parent/legal guardian if the student is less than 18 years of age.

The Family Educational Rights and Privacy Act of 1974 was designed to protect the privacy of educational records, establish the right of students to inspect and review their educational records, and provide guidelines for correction of inaccurate or misleading data through informal and formal hearings. Students also have the right to file complaints with the Family Educational Rights and Privacy Act (FERPA) Office concerning alleged failures by the school to comply with the Act.

NOTICE: John Patrick University of Health and Applied Sciences-VT will generally release certain directory information pertaining to its students to the public. This information may include student's name, address(es), phone number, program, dates of attendance, photographs, post- graduation employer and job title, participation in activities and recognition record, and the secondary and postsecondary educational institution attended by the student. If students prefer that any of this information may not be released by John Patrick University of Health and Applied Sciences-VT, they may make that request in writing, and Radiological Technology University – VT will honor it.

Refer to the FERPA Policy under Consumer Information for complete details.

Drop/ Add Period

Courses dropped during the first week of the semester will not appear on the student's transcript and students will not be charged tuition for those courses. Courses dropped during the second through seventh week of any semester will appear on the student's transcript with a grade of "W". Any course dropped after the seventh week of the semester will appear on the student's transcript with a grade of "WF". Tuition refunds will follow the stated refund policy of JPU.

Students may choose to add a subject to their schedule only during the first week of the semester. The addition of one or more courses may affect the tuition due.

Withdrawals

We hope it will not be necessary for you to withdraw; but if circumstances cause you to consider doing so, please discuss any problems with us before making that decision. We are often able to provide assistance that enables students to remain in college.

If you must withdraw, an exit interview with the Administrator or Administrative services is required. During this meeting, you will discuss tuition due, refunds or outstanding debts. Students who withdraw from class will receive an appropriate grade as outlined in the section entitled Drop/Add Period. Upon returning, students will be required to repeat the class and will be responsible for any additional expenses.

Transcripts

Upon request by the student, John Patrick University of Health and Applied Sciences will prepare and forward an official transcript of the student's record. All requests must include the student's full name, a statement requesting a transcript be issued and the address to which the student would like the transcript sent. Official transcripts will only be released if the student is in good standing with the academic office. An official transcript request form is available at www.rtuvt.edu. Students receive 2 free copies upon graduation. All additional copies requested are \$10.00 per copy.

Tuition and Fees

John Patrick University of Health and Applied Sciences charges a fixed rate per credit for each degree program. Tuition is found under each Program Description and is charged by semester based on credits the student is enrolled in. The cost of textbooks and study materials are not included in the tuition and outlined below.

Application Fee	\$35.00	(Non Refundable)
IT Service Fee	\$30.00	per semester
Library Fee	\$20.00	per semester

Textbooks	The student is responsible for securing all required textbooks unless otherwise stated
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Boot Camp weeks	The student is responsible for any travel, meals, and accommodation expenses that are incurred by attending boot camps.
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Students in the following programs are expected to maintain student memberships with the following organizations:

Medical Physics Program

American Association of Physicists in Medicine	\$69.00 per year (directly to AAPM)
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Medical Health Physics Program

Health Physics Society	\$10.00 (directly to HPS)
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Medical Dosimetry Program

American Association of Medical Dosimetrists	\$60.00 per year (directly to AAMD)
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Tuition Rate Per Credit

MS Medical Physics Program	\$1,111.11 per credit
MS Medical Health Physics Program	\$1,111.11 per credit
MS Medical Dosimetry Program	\$888.89 per credit
MS Health Physics Program	\$1,111.11 per credit
Integrative and Functional Nutrition Certificate	\$888.89 per credit
Nutrigenomic Certificate	\$888.89 per credit
Nutritional Counseling Certificate	\$888.89 per credit
Nutrition Oncology Certificate	\$888.89 per credit
Continuing Education Courses	\$533.34 per credit

Tuition Discounts Available

Family Members of JPU Faculty

Family members of faculty receive a 50% discount on standard program tuition. The faculty member must be in good standing with JPU. Family members are defined as a spouse or child.

ProVision Healthcare, LLC

JPU offers a 28.572% discount on standard program tuition to employees and volunteers of ProVision or its affiliates for graduate degrees. All JPU admissions requirements must be met for the applicable degree program.

ProVision is responsible for validating the position of prospective or current students within their organization. If the employee leaves or is dismissed from employment, or changes from full-time status, the benefit will be terminated at the end of the current academic semester.

Cancer Treatment Services International

JPU offers a tuition rate of \$333.34 to employees and associates of CTSI. All JPU admissions requirements must be met for the applicable degree program.

Petrone Associates, LLC

JPU offers a 50% tuition discount for employees of Petrone Associates, LLC enrolled in the MS Medical Physics program or MS Medical Health Physics program. The prospective student must meet normal admission requirements for JPU.

Kosciusko Community Hospital

JPU offers a 25% tuition discount for employees of Kosciusko Community Hospital enrolled in graduate degree programs. The prospective student must meet normal admission requirements for JPU.

US Oncology

JPU offers a 20% tuition discount for current employees of US Oncology enrolled in graduate degree programs. The prospective student must meet normal admission requirements for JPU.

Residents of California

The State of California established the Student Tuition Recovery Fund (STRF) to relieve or mitigate economic loss suffered by a student in an educational program at a qualifying institution, who is or was a California resident while enrolled, or was enrolled in a residency program, if the student enrolled in the institution, prepaid tuition, and suffered an economic loss. Unless relieved of the obligation to do so, you must pay the state-imposed assessment for the STRF, or it must be paid on your behalf, if you are a student in an educational program, who is a California resident, or are enrolled in a residency program, and prepay all or part of your tuition.

You are not eligible for protection from the STRF and you are not required to pay the STRF assessment, if you are not a California resident, or are not enrolled in a residency program.

It is important that you keep copies of your enrollment agreement, financial aid documents, receipts, or any other information that documents the amount paid to the school. Questions regarding the STRF may be directed to the Bureau for Private Postsecondary Education, 2535 Capitol Oaks Drive, Suite 400, Sacramento, CA 95833, (916) 431-6959 or (888) 370-7589.

To be eligible for STRF, you must be a California resident or are enrolled in a residency program, prepaid tuition, paid or deemed to have paid the STRF assessment, and suffered an economic loss as a result of any of the following:

1. The institution, a location of the institution, or an educational program offered by the institution was closed or discontinued, and you did not choose to participate in a teach-out plan approved by the Bureau or did not complete a chosen teach-out plan approved by the Bureau.
2. You were enrolled at an institution or a location of the institution within the 120 day period before the closure of the institution or location of the institution, or were enrolled in an educational program within the 120 day period before the program was discontinued.
3. You were enrolled at an institution or a location of the institution more than 120 days before the closure of the institution or location of the institution, in an educational program offered by the institution as to which the Bureau determined there was a significant decline in the quality or value of the program more than 120 days before closure.
4. The institution has been ordered to pay a refund by the Bureau but has failed to do so.
5. The institution has failed to pay or reimburse loan proceeds under a federal student loan program as required by law, or has failed to pay or reimburse proceeds received by the institution in excess of tuition and other costs.
6. You have been awarded restitution, a refund, or other monetary award by an arbitrator or court, based on a violation of this chapter by an institution or representative of an institution, but have been unable to collect the award from the institution.
7. You sought legal counsel that resulted in the cancellation of one or more of your student loans and have an invoice for services rendered and evidence of the cancellation of the student loan or loans.

To qualify for STRF reimbursement, the application must be received within four (4) years from the date of the action or event that made the student eligible for recovery from STRF.

A student whose loan is revived by a loan holder or debt collector after a period of non-collection may, at any time, file a written application for recovery from STRF for the debt that would have otherwise been eligible for recovery. If it has been more than four (4) years since the action or event that made the student eligible, the student must have filed a written application for recovery within the original four (4) year period, unless the period has been extended by another act of law.

However, no claim can be paid to any student without a social security number or a taxpayer identification number.

FINANCIAL POLICIES

The primary responsibility for financing a college education rests with the student. Students with unpaid balances may lose current enrollment and will not be allowed to register for any subsequent terms. Transcripts and diplomas are withheld from those who have not settled their financial obligations, which may include collection fees, attorney's fees, and court costs. Students are not fully registered, nor will they have the privilege of class attendance, participation in activities, or use of facilities until their charges are paid. A service charge of 1.5 percent, not to exceed \$45.00, may be added to any balance in the student account that is more than two (2) weeks past due.

John Patrick University of Health and Applied Sciences VT is not a participant in Federal or State financial aid programs.

Payment

Students assume the responsibility for payment of the tuition costs in full, either through direct payment or through a financial aid plan for those who qualify. All financial arrangements must be made before the beginning of classes. Full tuition or the first payment of a payment plan must be

received no later than one week prior to the start of classes. The school will contact students who are delinquent in paying tuition and fees. They will then be counseled and encouraged to make specific arrangements with the school in order to remove their delinquency and remain in good financial standing. The school reserves the right to change tuition and fees, make curricular changes when necessary, and make substitutions in books and supplies as required without prior notice. Any changes in tuition or fees will not affect a student already in attendance or enrolled.

Tuition Payment Methods

John Patrick University of Health and Applied Sciences accepts payment for tuition, course materials, equipment and other fees through cash payment, all major credit/debit cards, cashier's check, personal check, or company check. Upon availability, John Patrick University of Health and Applied Sciences will also assist students in applying for student financial assistance in order to defray the cost of their education. At the school's discretion, a payment plan may be arranged for those who qualify. All outstanding student account balances are billed directly to the student upon graduation or termination. Failure to satisfy delinquent accounts within a reasonable time period will result in the account being submitted to a collection agency for processing and the student will not be allowed to graduate.

Payment Plans: Students are able to qualify for payment plans directly with JPU when the student is unable to qualify for student loans, or they qualify for student loans at an interest rate above 7%. Monthly payment amounts for payment plans are expected to be manageable for the student and allow for the shortest duration of payments to satisfy the financial obligation of their program. The minimum monthly payment amount is set at \$500, but some students may qualify for a lower monthly payment due to financial hardship.

John Patrick University of Health and Applied Sciences Refund Policy

The University shall pay a refund to the student in the amount calculated under the refund policy specified in this section. The University must make the proper refund no later than thirty-one (31) days of the student's request for cancellation or withdrawal.

The following refund policy applies:

- 1) A student is entitled to a full refund if one (1) or more of the following criteria are met:
 - A. The student cancels the enrollment agreement or enrollment application within six (6) business days after signing.
 - B. The student does not meet the postsecondary proprietary educational institution's minimum admission requirements.
 - C. The student's enrollment was procured as a result of a misrepresentation in the written materials utilized by the postsecondary proprietary educational institution.
 - D. If the student has not visited the postsecondary educational institution prior to enrollment and, upon touring the institution or attending the regularly scheduled orientation/classes, the student withdrew from the program within three (3) days.
- 2) A student withdrawing from an instructional program, after starting the instructional program at a postsecondary proprietary institution and attending one (1) week or less, is entitled to a refund of ninety percent (90%) of the cost of the financial obligation, less an application/enrollment fee of ten percent (10%) of the total tuition, not to exceed one hundred dollars (\$100).
- 3) A student withdrawing from an instructional program, after attending more than one (1) week but equal to or less than twenty-five percent (25%) of the duration of the instructional program,

is entitled to a refund of seventy-five percent (75%) of the cost of the financial obligation, less an application/enrollment fee of ten percent (10%) of the total tuition, not to exceed one hundred dollars (\$100).

- 4) A student withdrawing from an instructional program, after attending more than twenty-five percent (25%) but equal to or less than fifty percent (50%) of the duration of the instructional program, is entitled to a refund of fifty percent (50%) of the cost of the financial obligation, less an application/enrollment fee of ten percent (10%) of the total tuition, not to exceed one hundred dollars (\$100).
- 5) A student withdrawing from an instructional program, after attending more than fifty percent (50%) but equal to or less than sixty percent (60%) of the duration of the instructional program, is entitled to a refund of forty percent (40%) of the cost of the financial obligation, less an application/enrollment fee of ten percent (10%) of the total tuition, not to exceed one hundred dollars (\$100).
- 6) A student withdrawing from an institutional program, after attending more than sixty percent (60%) of the duration of the instructional program, is not entitled to a refund.

Return of Title IV (R2T4) Policy

The law specifies how John Patrick University of Health and Applied Sciences must determine the amount of Title IV program assistance that you earn if you withdraw from school. The Title IV programs covered by this law are: Federal Pell Grants, Iraq and Afghanistan Service Grants, TEACH Grants, Direct Loans, Direct PLUS Loans, Federal Supplemental Educational Opportunity Grants (FSEOGs), and Federal Perkins Loans.

Though your aid is posted to your account at the start of each period, you earn the funds as you complete the period. If you withdraw during your payment period or period of enrollment (semester), the amount of Title IV program assistance that you have earned up to that point is determined by a specific formula. If you received (or your school or parent received on your behalf) less assistance than the amount that you earned, you may be able to receive those additional funds. If you received more assistance than you earned, the excess funds must be returned by the school and/or you. Title IV program excess funds must be returned within 45 days.

Earned and Unearned Assistance

The amount of assistance you have earned is determined on a pro rata basis. For example, if you completed 30% of your payment period or period of enrollment, you earn 30% of the assistance you were originally scheduled to receive. Once you have completed more than 60% of the payment period or period of enrollment, you earn all the assistance that you were scheduled to receive for that period.

Post-Withdrawal Disbursement

If you did not receive all of the funds that you earned, you may be due a post-withdrawal disbursement. If your post-withdrawal disbursement includes loan funds, JPU must get your permission before disbursing them. You may choose to decline some or all of the loan funds so that you don't incur additional debt. JPU may automatically use all or a portion of your post-withdrawal disbursement of grant funds for tuition, fees, and room and board charges (as contracted with the school). JPU needs your permission to use the post-withdrawal grant disbursement for all other school charges. If you do not give your permission (some schools ask for this when you enroll), you will be

offered the funds. However, it may be in your best interest to allow JPU to keep the funds to reduce your debt at JPU.

There are some Title IV funds you were scheduled to receive that cannot be disbursed to you once you withdraw because of other eligibility requirements. For example, if you are a first-time, first-year undergraduate student and you have not completed the first 30 days of your program before you withdraw, you will not receive any Direct Loan funds that you would have received had you remained enrolled past the 30th day.

If you receive (or your school or parent receive on your behalf) excess Title IV program funds that must be returned, JPU must return a portion of the excess equal to the lesser of:

- Your institutional charges multiplied by the unearned percentage of your funds, or
- The entire amount of excess funds.

JPU must return this amount even if it didn't keep this amount of your Title IV program funds. If JPU is not required to return all of the excess funds, you must return the remaining amount.

The Order of Returning Title IV funds:

1. Unsubsidized Direct Loan
2. Subsidized Direct Staff Loan
3. Perkins Loan
4. Direct Grad PLUS Loan
5. Direct Parent PLUS Loan
6. Pell Grant
9. FSEOG
10. TEACH Grant
11. Iraq & Afghanistan Service Grant

Any loan funds that you must return, you (or your parent for a Direct PLUS Loan) repay in accordance with the terms of the promissory note. That is, you make scheduled payments to the holder of the loan over a period of time.

Overpayment

Any amount of unearned grant funds that you must return is called an overpayment. The maximum amount of a grant overpayment that you must repay is half of the grant funds you received or were scheduled to receive. You do not have to repay a grant overpayment if the original amount of the overpayment is \$50 or less. You must make arrangements with JPU or the Department of Education to return the unearned grant funds.

Return of Title IV Policy and JPU Refund Policy

When you withdraw, the requirements for Title IV program funds are separate from any refund policy that JPU may have. Therefore, you may still owe funds to JPU to cover unpaid institutional charges. You may also be responsible for charges that initially had been paid by Title IV funds, where those funds were required to be returned to Title IV. If you do not already know JPU's refund policy, you should request a copy from the Director of Administrative Services or refer to the Academic Catalog. JPU can also provide you with the requirements and procedures for officially withdrawing from school.

Questions

If you have questions about your Title IV program funds, you can call the Federal Student Aid Information Center at 1-800-4-FEDAID (1-800-433-3243). TTY users may call 1-800-730-8913. Information is also available on Student Aid on the Web at www.studentaid.ed.gov.

Federal VA Refund Policy:

Title 38 US Code CFR 21.4255 Refund Policy; Non-Accredited Courses for IHL/NCD

A refund of the unused portion of the tuition, fees and other charges will be made to the veteran or eligible person who fails to enter or fails to complete the course as required by Veteran Administration regulation. The refund will be within 10% (percent) of an exact pro rata refund. No more than \$10.00 of the established registration fee will be retained if a veteran or eligible person fails to enter and complete the course.

The code states that the exact proration will be determined on the ratio of the number of days of instruction completed by the student to the total number of instructional days in the course.

This policy will change upon accreditation of the school by an accrediting body recognized by the U.S. Department of Education. The State Approving Agency will be notified accordingly.

Veterans Benefits and Transition Act of 2018, section 3679 of title 38, United States Code

Covered individuals (any individual who is entitled to educational assistance under Chapter 31, Vocational Rehabilitation and Employment, or Chapter 33, Post 9/11 GI Bill benefits) are permitted to participate in the course of education during the period beginning on the date on which the individual provides to JPU a certificate of eligibility for entitlement to educational assistance under Chapter 31 or 33 (a “certificate of eligibility” can also include a “Statement of Benefits” obtained from the Department of Veterans Affairs’ (VA) website e-Benefits, or a VAF 28-1905 form for Chapter 31 authorization purposes) and ending on the earlier of the following dates:

1. The date on which payment from VA is made to JPU.
2. 90 days after the date the institution certified tuition and fees following the receipt of the certificate of eligibility.

JPU will not impose a penalty, including the assessment of late fees, the denial of access to classes, libraries, or other institutional facilities, or the requirement that a covered individual borrow additional funds, on any covered individual because of the individual’s inability to meet his or her financial obligations to JPU due to the delayed disbursement funding from VA under Chapter 31 or 33.

STUDENT SERVICES

Faculty and staff work along with the individual student (as much as possible) to aid in making the duration of the program comfortable. All resources that are available to us are utilized to the fullest to assist the student in attaining his/her career goal.

Student services are available to all students, regardless of whether they reside locally. Student services are very important to the success of students, so JPU leadership ensures appropriate budgetary resources are available.

Advising

Academic: Students are encouraged to seek academic counsel from the faculty members, and Administrator - not only during registration periods but also during the academic year when problems and questions arise.

Admissions: Prospective students of the college are interviewed by Admissions Representatives to make sure their career objectives can be served by the college's academic resources. Those persons whose objectives cannot be served by the programs of the college are advised to seek other educational institutions that offer programs more aligned to their fields of interest.

Employment: JPU graduate placement support begins the first semester the student enters the program. Students are informed of opportunities in the industry during boot camp weeks and encouraged to be active with early networking. JPU meets with every student during boot camp weeks and discusses employment opportunities and placement opportunities. Students have access to faculty to assist with résumé writing, résumé reviews, rehearsing interviews, and coaching. JPU faculty are actively engaged with students and connecting them with opportunities through professional associations and relationships. JPU is evaluating other mechanisms to increase the student's exposure to employers. Graduate employment is very important to JPU. JPU does not guarantee employment after graduation.

Financial Assistance: Students may seek information from Administrative Services to manage financial arrangements.

Personal: Students and potential students are welcome and encouraged to seek assistance from any member of the staff or faculty regarding professional, personal, financial, and /or admissions advice when issues arise that have a negative effect on their ability to do their best work at John Patrick University of Health and Applied Sciences. When appropriate, students are referred to outside agencies or professionals for support or assistance. Through our on line program students are given access to counseling services through www.wellconnectbysrs.com. This website provides information, tools and support to address barriers to their success. Comprehensive student services are based on an individualized service. Students have access 24/7 to telephone counseling for students in crisis, assessment and students.

Orientation

A new student will receive online orientation including computer hardware and software requirements, resources available for successful completion of program requirements, as well as policies and procedures prior to the start of a program. Completion of administrative matters are also taken care of at this time. Each student will receive a written course outline no later than the first day of class.

Student Email

Students are given an JPU email with the @JPU.edu domain. Email is provided by Microsoft@Outlook365. Student email accounts expire no later than 90 days after graduation. Upon the expiration of the student email account, no data is saved. Students who wish to save correspondence should do so prior to the expiration date.

IT resources are provided for University-related purposes including support for instruction, research, administrative functions, and student use for the purpose of facilitating the successful completion of coursework. Use of the resources should be limited to these purposes, including incidental personal use.

Users are responsible for being aware of any University policies or regulations that govern the use of IT resources. Refer to JPU's Appropriate Use Policy for IT Resources. Users must comply with all federal and state laws and University policies. Incidental personal use must not interfere with the intended use of the IT resources or include any illegal activity.

Books and Supplies

Course material and resources will be provided to the students online. Required textbooks are to be obtained by the student. JPU does not have a bookstore where books and supplies may be purchased. JPU provides a textbook listing by program which provides textbook information including ISBN-13 and price. The textbook listing is available on the public website at www.rtuvt.edu, through the course management system, and by request to the Director of Administrative Services.

Hours of Operation

Administrative Offices	Monday – Friday	9:00 am – 5:00pm EST
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Contact Information

100 E. Wayne Street, Suite 140
South Bend, IN 46601
Phone: 574.232.2408
Toll Free 877.411.7238
Fax: 574.232.2200

Student Resource Services

All students also have access to the Student Resource Services (SRS) website (www.wellconnectbysrs.com) for information, tools, and support to address barriers to their success. Comprehensive student services are based on an individualized service plan and include:

- ✓ Unlimited 24-7 telephone counseling response to any covered students in crisis, assessment and students needing additional support or identifying new needs/requests;
- ✓ Telephone counseling/life coaching (1-5 telephone counseling hours) from a licensed mental health professional;
- ✓ Individualized resource searches for all covered students, focused on issues that impede student success, including special adjustment needs by specific populations such as returning veterans;
- ✓ Telephone consultations for all covered students with an attorney or financial expert;
- ✓ Follow-up and outreach with the student until all issues are resolved sufficiently that the student can be successful in personal and school goals;
- ✓ Staff/faculty formal referral of students with intensive needs;

- ✓ Faculty consultation on any student concerns that would impede that student from being successful.

PROGRAM DESCRIPTIONS

Course numbering system descriptions

MP	Medical Physics
MHP	Medical Health Physics
HP	Health Physics
MD	Medical Dosimetry
GASTP	Gastro-Physics
NUT	Nutrition
ONC	Oncology
SCI	Science
BIOL	Biology courses
PHY	Physics courses
MATH	Mathematics

100-299	Associate level
300-499	Bachelor level
500-699	Graduate level

GRADUATE LEVEL PROGRAMS

Master of Science in Medical Physics

The Medical Physicist's role is multi-faceted. The Medical Physicist works closely with Radiation Oncologists, Radiologists, Medical Dosimetrists, Radiation Therapists, X-ray Technicians, Nurses, and Regulators. The Medical Physicist works with radiation delivery devices, imaging devices, and the software associated with both of these units. Medical Physicists ensure that all radiation equipment is safe for patient use. The main objectives of this program are to provide education and clinical training for graduate students and to prepare them for careers in areas of diagnostic imaging, nuclear medicine, radiation therapy, and health physics.

Student Learning Outcomes

- ✓ Broad, fundamental technical knowledge of medical physics
- ✓ Broad, fundamental technical knowledge of radiation safety
- ✓ Written and verbal communication on medical physics issues
- ✓ Professional judgement and capacity to think critically in a clinical setting
- ✓ Practical experience in problem solving and emergencies in the radiological disciplines
- ✓ Ability to work independently or in a group

These student learning outcomes directly align with the program goals/objectives:

- ✓ Students will demonstrate clinical skills needed to serve as an entry level medical physicist or resident
- ✓ Students will demonstrate critical thinking and problem solving skills
- ✓ Students will demonstrate understanding of foundational knowledge for certification of medical physics if so desired to pursue

- ✓ The program will meet the needs of its students to prepare the students for furthering education, teaching opportunities, research in the field, and serving clinically.

Evening courses, weekend courses, and remote learning processes will be offered to allow the working professionals the opportunity to succeed in furthering their professional development.

Application Requirements:

- ✓ Letters of reference
- ✓ Official transcripts from all higher education institutions
- ✓ Personal statement letter
- ✓ Copies of the general GRE
- ✓ Copies of TOEFL or IELTS scores, if applicable
- ✓ On line application and fee of \$35.00

Program Admission Requirements

- ✓ Bachelor of Science Degree or equivalent
- ✓ A GPA of 2.5 (on a 4.0 scale) for the last degree earned. A 3.0 or higher (on a 4.0 scale) is preferred.
- ✓ If applicant's first language, or language of instruction, is not English, English proficiency examination scores are required. Test of English as a Foreign Language (TOEFL) minimum scores are 550 (paper-based) or 213 (computer-based) or 79 (internet-based). The International English Language Testing System (IELTS) minimum score required is 6.5. The PTE Academic minimum score required is 53.
- ✓ Interview with JPU representative
- ✓ Personal statement
- ✓ Letters of References

Admission requirements will be used to evaluate the acceptance of an applicant into the program.

*The applicant may receive a waiver for the general GRE if they possess at least 2 years of work experience in the field of study or a GPA of at least 3.7 (on a 4.0 scale) from their undergraduate degree or the applicant has already earned a graduate degree.

Program Prerequisites

- ✓ Calculus – 2 semesters

Program Graduation Requirements

- ✓ Earn a cumulative program GPA of 3.0 or above on a 4.0 scale
- ✓ Earn a minimum of 45 program credits including earning credit for all courses listed as core courses
- ✓ Meet all published paperwork and competency requirements for the clinical internship, yielding a grade of "Pass"

Upon completion, the following credential will be awarded: Master of Science in Medical Physics.

Program Details

Credit hours: 45

Duration: Two years (67-84 weeks)

Tuition: \$50,000 (25,000 per year)
\$1,111.11 per credit graduate level and program courses

Curriculum

Core Courses (39 credits required)

MP501	Radiation Dosimetry	(4 credits)
MP502	Radiation Biology	(3 credits)
MP503	Physics of Diagnostic Radiology	(3 credits)
MP504	Physics of Nuclear Medicine	(3 credits)
MP505	Physics of Radiation Oncology I	(3 credits)
MP506	Physics of Radiation Oncology II	(3 credits)
MP508	Radiological Instrumentation	(2 credits)
MP603	Advanced Diagnostic Radiology	(2 credits)
MHP510	Health Physics and Radiation Safety	(3 credits)
BIOL530	Human Anatomy & Physiology	(4 credits)
MP590	Medical and Professional Ethics	(1 credit)
MP599	Seminars	(1 credit)
MATH501	Mathematical Methods	(3 credits)
MP699	Clinical Internship	(4 credits)

Elective Courses (6 credits required)

MP611	Physics of Brachytherapy	(3 credits)
MP613	Physics of Nuclear Oncology	(3 credits)
MP615	Physics of Proton Therapy	(2 credits)
MD689	Medical Dosimetry Lab	(1 credit)
MHP601	Shielding Design	(2 credits)
MATH502	Advanced Mathematical Methods	(2 credits)
MP520	Computer Systems in Medicine	(2 credits)

Sample Plan of Study (4 semesters)

Students may enroll in a maximum of 12 credits per semester. 9 credits are recommended.

Semester 1	
Radiation Dosimetry	4cr
Human Anatomy & Physiology	4cr
Medical and Professional Ethics	1cr
Radiation Biology	3cr
	12cr

Semester 2	
Radiological Instrumentation	2cr
Nuclear Medicine	3cr
Radiation Oncology I	3cr
Seminars	1cr
Diagnostic Radiology	3cr
	12cr

Semester 3	
Radiation Oncology II	3cr
Advanced Diagnostic Radiology	2cr
Health Physics/Radiation Safety	3cr
Nuclear Oncology	3cr
	11cr

Semester 4	
Mathematical Methods	3cr
Brachytherapy	3cr
Clinical Internship	4cr
	10cr

Sample Plan of Study (5 semesters)

Students may enroll in a maximum of 12 credits per semester. 9 credits are recommended.

Semester 1	
Radiation Dosimetry	4cr
Human Anatomy & Physiology	4cr
Medical & Professional Ethics	1cr
	9cr

Semester 2	
Nuclear Medicine	3cr
Radiation Oncology I	3cr
Radiation Biology	3cr
	9cr

Semester 3	
Radiation Oncology II	3cr
Radiological Instrumentation	2cr
Seminars	1cr
Brachytherapy	3cr
	9cr

Semester 4	
Health Physics/Radiation Safety	3cr
Nuclear Oncology	3cr
Diagnostic Radiology	3cr
	9cr

Semester 5	
Advanced Diagnostic Radiology	2cr
Mathematical Methods	3cr
Clinical Internship	4cr
	9cr

Master of Science in Medical Dosimetry

Radiation oncology is a health care discipline that uses ionizing radiation for the treatment of cancer and allied diseases. Radiation therapy, one of the three major modalities used in cancer management, is part of the treatment regimen for more than half of all cancer patients.

The Medical Dosimetrist is considered the leader of many Radiation Therapy Departments. The Medical Dosimetrist is actively engaged in patient imaging, simulation, and treatment planning. The Medical Dosimetrist works very closely with Physicians and Radiation Therapists. The plan that is generated will set the course of how the radiation is delivered. This plan could be the single most important component of a cancer patient's radiation therapy course.

Mission Statement

The Master of Medical Dosimetry program is designed to prepare confident, patient focused, and clinically proficient entry-level or advanced medical dosimetrists that can offer support to the radiation therapy team and make a positive contribution to the healthcare field.

Goal: Students will be clinically proficient.

Student Learning Outcomes:

- ✓ Students will develop treatment plans that provide adequate target coverage while sparing normal and critical tissues.
- ✓ Students will demonstrate the ability to assist underclassmen in plan development and evaluation.
- ✓ Students will take an active role in their clinical rotations.

Goal: Students will demonstrate professional planning practices.

Student Learning Outcomes:

- ✓ Students will demonstrate knowledge of common toxicities by body site.
- ✓ Students will demonstrate a clear understanding of the effects of radiation on the human body.
- ✓ Students will evaluate plan parameters to ensure optimal patient care.

Goal: Students will develop effective communication and leadership skills.

Student Learning Outcomes:

- ✓ Students will demonstrate proficiency in oral communications through oral examinations and presentations.
- ✓ Students will demonstrate proficiency in written communications through essays and research papers.
- ✓ Students will demonstrate an understanding of radiation oncology department management.

Goal: Students will demonstrate an understanding of the roles of the Radiation Therapist, Medical Dosimetrist, and Medical Physicist

Student Learning Outcome:

- ✓ Students will gain experience and knowledge through clinical interaction and discussions.

Goal: Students will be team oriented and exemplify professionalism.

Student Learning Outcomes:

- ✓ Students will demonstrate the ability to work and communicate in a group setting.
- ✓ Students will model professional and courteous behavior with faculty, staff, and peers.

Goal: Students will exercise critical thinking and problem solving skills.

Student Learning Outcomes:

- ✓ Students will discuss and evaluate complex case studies related to the field.
- ✓ Student will practice quality assurance by detecting and correcting plan errors.
- ✓ Students will demonstrate knowledge of multiple treatment planning calculation algorithms and demonstrate proper application.

Program Requirements

- ✓ Program Application Requirements
- ✓ Letters of references
- ✓ Official transcripts from all higher education institutions
- ✓ Personal statement letter
- ✓ Copies of TOEFL or IELTS scores, if applicable
- ✓ On line application and \$35.00 application fee

Program Admission Requirements

- ✓ Bachelor of Science Degree or equivalent
- ✓ A GPA of 2.0 (on a 4.0 scale) for the last degree earned. A 3.0 or higher (on a 4.0 scale) is preferred.
- ✓ If applicant's first language, or language of instruction, is not English, English proficiency examination scores are required. Test of English as a Foreign Language (TOEFL) minimum scores are 550 (paper-based) or 213 (computer-based) or 79 (internet-based). The International English Language Testing System (IELTS) minimum score required is 6.5. The PTE Academic minimum score required is 53.
- ✓ Interview with JPU representative
- ✓ Personal statement
- ✓ Letters of References
- ✓ Applicants who are not current certified medical dosimetrists (CMDs) must have their clinical internship site identified in order to be admitted into the Medical Dosimetry program. The site must confirm an anticipated internship start date within the student's second semester. One of the following criteria must be met to consider a clinical site identified:
 - The clinical site is one of JPU's JRCERT recognized clinical sites
 - The student provides written intent to participate by providing the Intent to Participate Form.
 - Demonstrates a commitment from the clinical site by submitting the following clinical site recognition paperwork: JRCERT Form 104MD or the Training Affiliation Agreement.

Program Recommendations

- ✓ Human Anatomy and Physiology

Program recommendations are not a requirement for admissions but must be taken prior to program completion.

Program Graduation Requirements

- ✓ Earn a cumulative program GPA of 3.0 or above on a 4.0 scale
- ✓ Earn a minimum of 45 program credits including earning credit for all courses listed as core courses
- ✓ Meet all published paperwork and competency requirements for the clinical internship, yielding a grade of "Pass"

Upon completion, the following credential will be awarded: Master of Science in Medical Dosimetry.

Clinical Obligations (non-CMD Route)

Some Clinics may require different student clinical obligations such as drug screening, immunization records, and background checks, these items are performed at the students expense. Clinics that prefer to do their own testing and verification may do so directly with the student. JPU may be asked to perform these services and provide the results to the clinic upon their request.

Due to availability of clinical sites and student schedules, travel may be necessary in order to secure an appropriate clinical site. JPU resolves to make every effort to place student in a location that is within a reasonable distance from their place of residence.

Students may propose a clinical site closer to their place of residence that is currently available. In this instance, the University prefers to receive notice 5-6 months in advance for the purpose of communicating with the clinical site and securing paperwork. Students typically start their clinical internship hours during the second semester of their program. Students are expected to serve as a liaison between the University and the clinical setting.

Should a proposed site prove unsuitable, the student may propose another site or choose from sites currently available.

Evening/weekend clinical assignments are not required or encouraged. If measures must be taken in order to ensure adequate clinical time, proposals will be considered and must be agreeable to the student, University and clinical site.

Clinical Internship Completion Policy

The Medical Dosimetry program requires prompt completion of the clinical internship concurrently with didactic instruction as outlined by the Joint Review Committee on Education in Radiologic Technology (JRCERT). Students are expected to begin their clinical internship during the second semester of the program and average approximately 12-15 hours per week for completion of the required 720 hours no later than their last semester of didactic instruction.

Students are required to submit their internship journal including all required paperwork outlined in the Clinical Guidance for Students document no later than thirty (30) days after completion of the 720 hours. At any point prior to clinical journal submission, the student is still enrolled in the clinical internship.

Tuition for the clinical internship is charged during the last semester of didactic instruction. Failure to complete the internship hours or submit the clinical journal within the timeframe outlined in this policy will result in tuition for the clinical internship being charged to the student's account each semester the student is enrolled in the clinical internship after didactic instruction is complete.

Students who are unable to start their internship during the second semester of the program or maintain minimum hours per week outlined by this policy due to unforeseen circumstances beyond the control of student will not automatically be subject to tuition being charged for each semester the student is enrolled in the clinical internship after didactic instruction is complete. The President and Program Director will address unforeseen circumstances on a case-by-case basis.

Program Details: Non-Certified Medical Dosimetrists (non-CMD)

Credit hours: 45

Program duration: Two years (67 weeks)

Tuition: \$40,000 (20,000 year)
\$888.89 per credit graduate level/program courses

Curriculum

Core Courses (39 credits required)

MD502	Radiation Biology	(3 credits)
MD505	Radiation Oncology I	(3 credits)
MD506	Radiation Oncology II	(3 credits)
MP520	Computer Systems in Medicine	(2 credits)
MHP510	Health Physics and Radiation Safety	(3 credits)

MHP607	Radiation Oncology Department Management	(2 credits)
MHP609	Radiation Oncology Financials	(2 credits)
MP590	Medical and Professional Ethics	(1 credit)
MATH501	Mathematical Methods	(3 credits)
MP599	Seminars ^A	(2 credits)
MD588	Clinical Treatment Planning I	(2 credits)
MD590	Clinical Treatment Planning II	(2 credits)
MD688	Clinical Treatment Planning III	(2 credits)
MD690	Clinical Treatment Planning IV	(2 credits)
MD695	Capstone	(3 credits)
MD699	Clinical Internship ^C	(4 credits)

^ARequired to complete two 1-credit Seminars courses

Elective Courses (6 credits required)

MD501	Radiation Dosimetry	(4 credits)
MD611	Brachytherapy ^D	(3 credits)
MD503	Diagnostic Radiology	(3 credits)
MD504	Nuclear Medicine	(3 credits)
MD613	Nuclear Oncology	(3 credits)
MD615	Proton Therapy	(2 credits)
MD630	Contouring, Imaging, and Special Procedures ^B	(2 credits)
MD633	Informatics in Radiation Oncology ^B	(2 credits)
MD635	Clinical Safety and Quality Assurance ^B	(2 credits)

^BThis course is required for the Practitioner Concentration. Upon completion of the first two semesters, students are eligible to take this course upon receiving satisfactory evaluation of both academic and professional performance.

The Non-Certified Medical Dosimetrist Route (non-CMD) allows international students who graduate to be eligible to take the Medical Dosimetrist Certification Exam through the Medical Dosimetrist Certification Board (MDCB) as an international candidate who did not complete a JRCERT accredited program. Eligibility requirements can be found at www.mdc.org/exam-information/exam-dates-and-fees/international-exam-policy.

^CThe clinical internship requires 1,000 hours to be completed concurrently with the degree program to be eligible for the Medical Dosimetrist Certification Exam through the MDCB as an international candidate who did not complete a JRCERT accredited program.

^DThis elective is required to be eligible for the Medical Dosimetrist Certification Exam through the MDCB as an international candidate who did not complete a JRCERT accredited program.

Sample Plan of Study

Semester 1	
Clinical Treatment Planning I	2cr
Radiation Oncology I	3cr
Seminars	1cr
Radiation Biology	3cr
Medical & Professional Ethics	1cr
	10cr

Semester 2	
Clinical Treatment Planning II	2cr
Radiation Oncology II	3cr
Mathematical Methods	3cr
Health Physics/Radiation Safety	3cr
<i>Work on clinical internship</i>	
	11cr

Semester 3	
Clinical Treatment Planning III	2cr
Radiation Oncology Dept. Mgmt.	2cr
Seminars	1cr
Computer Systems in Medicine	2cr
Nuclear Oncology	3cr
<i>Work on clinical internship</i>	
	10cr

Semester 4	
Clinical Treatment Planning IV	2cr
Brachytherapy	3cr
Radiation Oncology Financials	2cr
Capstone	3cr
Clinical Internship	4cr
	14cr

Program Details: Current Certified Medical Dosimetrists (CMD)

Credit hours: 45

Program duration: Two years (67 weeks)

Tuition: \$40,000 (20,000 year)
\$888.89 per credit graduate level/program courses

Curriculum

Core Courses (39 credits required)

MD502	Radiation Biology	(3 credits)
MD505	Radiation Oncology I	(3 credits)
MD506	Radiation Oncology II	(3 credits)
MP520	Computer Systems in Medicine	(2 credits)
MHP510	Health Physics and Radiation Safety	(3 credits)
MHP607	Radiation Oncology Department Management	(2 credits)
MHP609	Radiation Oncology Financials	(2 credits)
MP590	Medical and Professional Ethics	(1 credit)
MATH501	Mathematical Methods	(3 credits)
MD611	Brachytherapy	(3 credits)
MP599	Seminars ^A	(2 credits)
MD588	Clinical Treatment Planning I	(2 credits)
MD590	Clinical Treatment Planning II	(2 credits)
MD688	Clinical Treatment Planning III	(2 credits)
MD690	Clinical Treatment Planning IV	(2 credits)
MD697	Capstone	(4 credits)

^ARequired to complete two 1-credit Seminars courses

Elective Courses (6 credits required)

MD501	Radiation Dosimetry	(4 credits)
MD503	Diagnostic Radiology	(3 credits)
MD504	Nuclear Medicine	(3 credits)
MD613	Nuclear Oncology	(3 credits)
MD615	Proton Therapy	(2 credits)
MD630	Contouring, Imaging, and Special Procedures ^B	(2 credits)
MD633	Informatics in Radiation Oncology ^B	(2 credits)
MD635	Clinical Safety and Quality Assurance ^B	(2 credits)
MD610	Education and Practicum I ^C	(2 credits)
MD611	Education and Practicum II ^C	(3 credits)
MD612	Education and Practicum III ^C	(3 credits)
MD613	Education and Practicum IV ^C	(3 credits)

^B This course is required for the Practitioner Concentration. Upon completion of the first two semesters, students are eligible to take this course upon receiving satisfactory evaluation of both academic and professional performance.

^C Certified Medical Dosimetrists may take this course in lieu of the four Clinical Treatment Planning Courses (MD588, MD590, MD688, MD690)

Sample Plan of Study

Semester 1	
Clinical Treatment Planning I	2cr
Radiation Oncology I	3cr
Seminars	1cr
Radiation Biology	3cr
Medical & Professional Ethics	1cr
	10cr

Semester 2	
Clinical Treatment Planning II	2cr
Radiation Oncology II	3cr
Mathematical Methods	3cr
Health Physics/Radiation Safety	3cr
Nuclear Oncology	3cr
	14cr

Semester 3	
Clinical Treatment Planning III	2cr
Radiation Oncology Dept. Mgmt.	2cr
Seminars	1cr
Computer Systems in Medicine	2cr
Nuclear Medicine	3cr
	10cr

Semester 4	
Clinical Treatment Planning IV	2cr
Brachytherapy	3cr
Radiation Oncology Financials	2cr
Capstone	4cr
	11cr

The Joint Review Committee on Education in Radiologic Technology (JRCERT)

John Patrick University of Health and Applied Sciences' BS Medical Dosimetry and MS Medical Dosimetry programs are accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). All students are encouraged to review the JRCERT Standards for an accredited educational program in Medical Dosimetry located at www.jrcert.org/programs-faculty/jrcert-standards/.

JRCERT

20 N. Wacker Drive, Suite 2850

Chicago, IL 60606-3182

Phone: (312) 704-5300

Fax: (312) 704-5304

www.jrcert.org

mail@jrcert.org

Master of Science in Medical Health Physics

The Medical Physicist is responsible for radiation dose calculations and the administration of radiation dose to patients through their work with linear accelerators, sealed radiation sources, and computers.

The Medical Health Physicist is responsible for radiation safety aspects necessary to ensure the safe use of ionizing and non-ionizing radiation sources. Examples of Radioactive sources professionals may be handling or exposed to include radiation units and sources in radiation therapy, X-ray machines

in diagnostic radiology, sealed and unsealed radioactive sources used in nuclear medicine and biomedical research, and lasers used in surgery and other areas of the hospital.

The Medical Health Physics program is designed to help students develop skills, competencies, and aptitude to enter or enhance a career in Medical Health Physics.

Student Learning Outcomes

- ✓ Broad, fundamental technical knowledge of radiation medicine (radiology, nuclear medicine, radiation oncology)
- ✓ Broad, fundamental technical knowledge of radiation safety
- ✓ Written and verbal communication on medical health physics issues
- ✓ Professional judgement and capacity to think critically in a clinical setting or emergency
- ✓ Practical experience in problem solving and emergencies in the radiological disciplines
- ✓ Ability to work independently or in a group

These student learning outcomes directly align with the program goals/objectives:

- ✓ Students will demonstrate clinical skills needed to serve as an entry level medical health physicist or radiation safety officer
- ✓ Students will demonstrate critical thinking and problem solving skills
- ✓ Students will demonstrate understanding of foundational knowledge for certification of medical health physics if so desired to pursue
- ✓ The program will meet the needs of its students to prepare the students for furthering education, teaching opportunities, research in the field, and serving clinically.

Program Requirements

- ✓ Program Application Requirements
- ✓ Letters of references
- ✓ Official transcripts from all higher education institutions
- ✓ Personal statement letter
- ✓ Copies of TOEFL or IELTS scores, if applicable
- ✓ On line application and \$35.00 application fee

Program Admission Requirements

- ✓ Bachelor of Science Degree or equivalent
- ✓ A GPA of 2.5 (on a 4.0 scale) for the last degree earned. A 3.0 or higher (on a 4.0 scale) is preferred.
- ✓ If applicant's first language, or language of instruction, is not English, English proficiency examination scores are required. Test of English as a Foreign Language (TOEFL) minimum scores are 550 (paper-based) or 213 (computer-based) or 79 (internet-based). The International English Language Testing System (IELTS) minimum score required is 6.5. The PTE Academic minimum score required is 53.
- ✓ Interview with JPU representative
- ✓ Personal statement
- ✓ Letters of References

Program Recommendations

- ✓ Statistics
- ✓ Human Anatomy and Physiology
- ✓ Calculus two semesters

Program recommendations are not a requirement for admissions but must be taken prior to program completion.

Program Graduation Requirements

- ✓ Earn a cumulative program GPA of 3.0 or above on a 4.0 scale
- ✓ Earn a minimum of 45 program credits including earning credit for all courses listed as core courses
- ✓ Meet all published paperwork and competency requirements for the clinical internship, yielding a grade of “Pass”

Upon completion, the following credential will be awarded: Master of Science in Medical Health Physics.

Clinical Obligations

Some Clinics may require different student clinical obligations such as drug screening, immunization records, and background checks, these items are performed at the students expense. Clinics that prefer to do their own testing and verification may do so directly with the student. JPU may be asked to perform these services and provide the results to the clinic upon their request.

Due to availability of clinical sites and student schedules, travel may be necessary in order to secure an appropriate clinical site. JPU resolves to make every effort to place student in a location that is within a reasonable distance from their place of residence.

Students may propose a clinical site closer to their place of residence that is currently available. In this instance, the University prefers to receive notice 5-6 months in advance for the purpose of communicating with the clinical site and securing paperwork. Students typically start their clinical internship hours during the second semester of their program. Students are expected to serve as a liaison between the University and the clinical setting.

Should a proposed site prove unsuitable, the student may propose another site or choose from sites currently available.

Evening/weekend clinical assignments are not required or encouraged. If measures must be taken in order to ensure adequate clinical time, proposals will be considered and must be agreeable to the student, University and clinical site.

Program Details

Credit hours: 45

Duration: 24 months (67 weeks)

Tuition: \$50,000 (\$25,000 per year)

\$1,111.11 a credit hour for graduate level/program courses

Curriculum

Core Courses (39 credits required)

MP501	Radiation Dosimetry	(4 credits)
MP502	Radiation Biology	(3 credits)
MP503	Physics Diagnostic Radiology	(3 credits)
MP504	Physics Nuclear Medicine	(3 credits)

MP505	Physics Radiation Oncology I	(3 credits)
MP508	Radiological Instrumentation	(2 credits)
MHP510	Health Physics and Radiation Safety	(3 credits)
MHP602	Reactor Health Physics	(3 credits)
MHP603	Non-Ionizing Radiation Safety	(2 credits)
MHP605	Regulations and Licensing	(2 credits)
MP590	Medical and Professional Ethics	(1 credit)
MHP606	Environmental Health Physics	(2 credits)
MP599	Seminars*	(4 credits)
MP699	Clinical Internship	(4 credits)

*Required to complete four 1-credit Seminars courses

Elective Courses (6 credits required)

MP611	Physics of Brachytherapy	(3 credits)
MP613	Physics of Nuclear Oncology	(3 credits)
MP615	Physics of Proton Therapy	(2 credits)
MD689	Medical Dosimetry Lab	(1 credit)
MP602	Advanced Radiation Biology	(2 credits)
MHP601	Shielding Design	(2 credits)
MP520	Computer Systems in Medicine	(2 credits)
MATH501	Mathematical Methods	(3 credits)
MATH502	Advanced Mathematical Methods	(2 credits)

Sample Plan of Study

Semester 1	
Seminar	1cr
Diagnostic Radiology	3cr
Radiation Oncology I	3cr
Health Physics/Radiation Safety	3cr
Medical and Professional Ethics	1cr
	11cr

Semester 2	
Seminar	1cr
Radiation Biology	3cr
Nuclear Medicine	3cr
Radiological Instrumentation	2cr
Environmental Health Physics	2cr
	11cr

Semester 3	
Seminar	1cr
Mathematical Methods	3cr
Radiation Dosimetry	4cr
Reactor Health Physics	3cr
	11cr

Semester 4	
Seminar	1cr
Regulations and Licensing	2cr
Nuclear Oncology	3cr
Non-Ionizing Radiation Safety	2cr
Clinical Internship	4cr
	12cr

Master of Science in Health Physics

The Health Physicist is responsible for the radiation safety aspects of industrial, nuclear, or regulatory agencies. The occupation relates to safe use of ionizing and non-ionizing radiation and keeping the levels of these radiations as low as reasonably achievable. The professionals working in this field can have careers spanning from health physicists in environmental protection agencies, to regulators for hazardous waste handling, to radiation safety officers in nuclear reactors. The Health Physics program is designed to help students develop skills, competencies, and aptitude to enter or enhance a career in Health Physics.

Student Learning Outcomes

- ✓ Broad, fundamental technical knowledge of health physics (health, environmental, nuclear)
- ✓ Broad, fundamental technical knowledge of radiation safety
- ✓ Broad, fundamental knowledge on the NRC guidelines and regulations
- ✓ Broad, fundamental knowledge of hazardous waste handling
- ✓ Broad, fundamental knowledge of advanced instrumentation
- ✓ Written and verbal communication skills on health physics issues
- ✓ Professional judgement and capacity to think critically in a clinical setting or emergency
- ✓ Practical experience in problem solving and emergencies in the radiological and nuclear disciplines
- ✓ Ability to work independently or in a group

These student learning outcomes directly align with the program goals/objectives:

- ✓ Students will demonstrate clinical skills needed to serve as an entry level medical physicist or resident
- ✓ Students will demonstrate critical thinking and problem solving skills
- ✓ Students will demonstrate understanding of foundational knowledge for certification of medical physics if so desired to pursue
- ✓ The program will meet the needs of its students to prepare the students for furthering education, teaching opportunities, research in the field, and serving clinically.

Evening courses, weekend courses, and remote learning processes will be offered to allow the working professionals the opportunity to succeed in furthering their professional development.

Application Requirements:

- ✓ Letters of reference
- ✓ Official transcripts from all higher education institutions
- ✓ Personal statement letter
- ✓ Copies of TOEFL or IELTS scores, if applicable
- ✓ On line application and fee of \$35.00

Program Admission Requirements

- ✓ Bachelor of Science Degree or equivalent
- ✓ A GPA of 2.5 (on a 4.0 scale) for the last degree earned. A 3.0 or higher (on a 4.0 scale) is preferred.
- ✓ If applicant's first language, or language of instruction, is not English, English proficiency examination scores are required. Test of English as a Foreign Language (TOEFL) minimum scores are 550 (paper-based) or 213 (computer-based) or 79 (internet-based). The International English Language Testing System (IELTS) minimum score required is 6.5. The PTE Academic minimum score required is 53.

- ✓ Interview with JPU representative
- ✓ Personal statement
- ✓ Letters of References

Admission requirements will be used to evaluate the acceptance of an applicant into the program.

Program Recommendations

- ✓ Statistics (upper level)
- ✓ Calculus I

Program recommendations are not a requirement for admissions but must be taken prior to program completion.

Program Graduation Requirements

- ✓ Earn a cumulative program GPA of 3.0 or above on a 4.0 scale
- ✓ Earn a minimum of 45 program credits including earning credit for all courses listed as core courses
- ✓ Meet all published paperwork and competency requirements for the clinical internship, yielding a grade of "Pass"

Upon completion, the following credential will be awarded: Master of Science in Health Physics.

Program Details

Credit hours: 45

Duration: Two years (67 weeks)

Tuition: \$50,000 (25,000 per year)
\$1,111.11 per credit graduate level and program courses

Curriculum

Core Courses (39 credits required)

HP501	Advanced Radiation Dosimetry	(2 credits)
MP502	Radiation Biology	(3 credits)
HP509	Advanced Radiological Instrumentation	(3 credits)
MHP510	Health Physics/Radiation Safety	(3 credits)
MHP602	Reactor Health Physics	(3 credits)
MHP606	Environmental Health Physics	(2 credits)
HP612	Advanced Environmental Health Physics	(2 credits)
HP514	Radiation Emergencies	(2 credits)
HP513	Hazardous Waste Handling	(2 credits)
MHP605	Regulations and Licensing	(2 credits)
MHP603	Non-Ionizing Radiation Safety	(2 credits)
HP517	Accelerator Health Physics	(1 credit)
HP518	Environmental Epidemiology	(1 credit)
HP519	Public Law and Policy	(1 credit)
MP599	Seminars ^A	(4 credits)
HP699	Internship	(6 credits)

*Required to complete four 1-credit Seminar courses

Elective Courses (6 credits required)

MP503	Physics of Diagnostic Radiology	(3 credits)
MP504	Physics of Nuclear Medicine	(3 credits)
HP611	Advanced Reactor Health Physics	(1 credit)
MATH502	Advanced Mathematical Methods	(2 credits)

Sample Plan of Study

Semester 1	
Radiation Biology	3
Reactor Health Physics	3
Non-Ionizing Radiation Safety	2
Environmental Health Physics	2
Seminar	1
	11cr

Semester 2	
Nuclear Medicine	3
Adv Environmental Health Physics	2
Advanced Radiological Instrumentation	3
Accelerator Health Physics	1
Seminar	1
	10cr

Semester 3	
Adv Radiation Dosimetry	2
Hazardous Waste Handling	2
Regulations and Licensing	2
Health Physics/Radiation Safety	3
Seminar	1
	10cr

Semester 4	
Environmental Epidemiology	1
Radiation Emergencies	2
Public Law and Policy	1
Seminar	1
Internship	6
	11cr

Nutrition Oncology Graduate Certificate

This is a distance education program that focuses on the scientific study of carcinogens; the onset of malignancy in cells, tissues, blood, and organs; the genetics of cancer; the anatomy and physiology of cancer cells; and the study of cancer behaviors and treatments. The program includes instruction on gene expression; oncogenes and tumor suppressor genes; viral genes and cancer proliferation; regulation of signal transduction; cancer proteins; hormonal and growth factors in cancer cells; tumor promotion, progression, and metastasis; carcinogen receptors and metabolism; carcinogen ecology; immunological targeting; and studies of genetic chemical, radiologic and other treatment therapies.

The fulfillment of our mission and goals through an integrated curriculum insures students attain the following learning outcomes:

1. Obtain an increased level of competence appropriate for an industry-credentialed nutritional specialist or other nutritional medicine health professional.
2. Possess critical thinking skills to adapt to changing clinical environments and patient needs.
3. Exhibit professionalism through consistent ethical behavior.
4. Demonstrate communication skills for effective communication with patients, families, and other healthcare providers.

Students progress through the curriculum and meet course learning objectives that culminate in the accomplishment of the above learning outcomes.

Application Requirements

- ✓ Letters of references
- ✓ Curriculum Vitae/Résumé
- ✓ Official transcripts from all higher education institutions
- ✓ Personal statement letter
- ✓ Copies of TOEFL or IELTS, if applicable
- ✓ Online application and \$35.00 application fee

Program Admission Requirements

- ✓ Bachelor, Master or Doctorate degree from a regional, national or international equivalency accredited agency recognized by the United States Department of Education
- ✓ A GPA of 3.0 or higher (on a 4.0 scale) for the last degree earned.
- ✓ If applicant's first language, or language of instruction, is not English, English proficiency examination scores are required. Test of English as a Foreign Language (TOEFL) minimum scores are 550 (paper-based) or 213 (computer-based) or 79 (internet-based). The International English Language Testing System (IELTS) minimum score required is 6.5. The PTE Academic minimum score required is 53.
- ✓ Active/Current Medical and/or License/Certification (examples include MD, DO, ND, DC, DPT, PharmD, PA-C, ARNP, RN, RPh, RD/LD/LN, LMHC, LMFT, LCSW, CAC)
- ✓ Interview with JPU representative
- ✓ Personal statement
- ✓ Three Letters of Reference

Program Completion Requirements

- ✓ Earn a cumulative program GPA of 3.0 or above on a 4.0 scale
- ✓ Earn a minimum of 20 program credits

Upon completion of the courses, the following credential will be awarded: Nutrition Oncology Graduate Certificate

Program Details

Required Credit hours: 20

Program Duration: 1 year (34 weeks)

Program Tuition: \$17,778

Rate per Credit: \$888.89

Curriculum

Core Courses (20 credits required)

ONC500	Introduction to Radiation Oncology	2 credits
ONC501	Introduction to Medical Oncology	2 credits
ONC502	Introduction to Surgical Oncology	2 credits
NUT502	Nutrition Assessment	3 credits
NUT503	Diet, Genes & Nutrition	3 credits
NUT507	Nutrition Oncology	3 credits
GASTP505	Food & The Senses	3 credits
HP519	Public Law & Policy	1 credit
MD590	Medical and Professional Ethics	1 credit

Sample Plan of Study: Nutrition Oncology Graduate Certificate

Semester 1		Semester 2	
Introduction to Radiation Oncology	2cr	Nutrition Assessment	3cr
Introduction to Medical Oncology	2cr	Nutrition Oncology	3cr
Introduction to Surgical Oncology	2cr	Food & The Senses	3cr
Medical and Professional Ethics	1cr	Diet, Genes & Nutrition	3cr
Public Law & Policy	1cr		
	8cr		12cr

Nutrigenomics Graduate Certificate

This program focuses on the scientific study of whole genome sequences and patterns of gene expression. Includes instruction in molecular and cellular biology, genetics, protein technologies, genomic sciences and techniques, bioinformatics, and scientific and research ethics.

The fulfillment of our mission and goals through an integrated curriculum insures students attain the following learning outcomes:

1. Obtain an increased level of competence appropriate for an industry-credentialed nutritional specialist or other nutritional medicine health professional.
2. Possess critical thinking skills to adapt to changing clinical environments and patient needs.
3. Exhibit professionalism through consistent ethical behavior.
4. Demonstrate communication skills for effective communication with patients, families, and other healthcare providers.

Students progress through the curriculum and meet course learning objectives that culminate in the accomplishment of the above learning outcomes.

Application Requirements

- ✓ Letters of references
- ✓ Curriculum Vitae/Résumé
- ✓ Official transcripts from all higher education institutions
- ✓ Personal statement letter
- ✓ Copies of TOEFL or IELTS, if applicable
- ✓ Online application and \$35.00 application fee

Program Admission Requirements

- ✓ Bachelor, Master or Doctorate degree from a regional, national or international equivalency accredited agency recognized by the United States Department of Education
- ✓ A GPA of 3.0 or higher (on a 4.0 scale) for the last degree earned.
- ✓ If applicant's first language, or language of instruction, is not English, English proficiency examination scores are required. Test of English as a Foreign Language (TOEFL) minimum scores are 550 (paper-based) or 213 (computer-based) or 79 (internet-based). The International English Language Testing System (IELTS) minimum score required is 6.5. The PTE Academic minimum score required is 53.
- ✓ Active/Current Medical and/or License/Certification (examples include MD, DO, ND, DC, DPT, PharmD, PA-C, ARNP, RN, RPh, RD/LD/LN, LMHC, LMFT,

LCSW, CAC)

- ✓ Interview with JPU representative
- ✓ Personal statement
- ✓ Three Letters of Reference

Program Completion Requirements

- ✓ Earn a cumulative program GPA of 3.0 or above on a 4.0 scale
- ✓ Earn a minimum of 20 program credits

Upon completion of the courses, the following credential will be awarded: Nutrigenomics Graduate Certificate

Program Details

Required Credit hours: 20

Program Duration: 1 year (34 weeks)

Program Tuition: \$17,778

Rate per Credit: \$888.89

Curriculum

Core Courses (20 credits required)

SCI602	Genomic Screening	2 credits
SCI600	Intro to Nanoscience and Nanotechnology	2 credits
NUT503	Diet, Genes & Nutrition	3 credits
SCI601	Bioactive Food Components	3 credits
GASTP502	Principles of Neurophysiology	3 credits
GASTP503	Psychophysics	3 credits
GASTP505	Food & The Senses	3 credits
MD590	Medical and Professional Ethics	1 credit

Sample Plan of Study: Nutrigenomics Graduate Certificate

Semester 1		Semester 2	
Intro to Nanoscience and Nanotechnology	2cr	Genomic Screening	2cr
Principles of Neurophysiology	3cr	Psychophysics	3cr
Diet, Genes & Nutrition	3cr	Food and the Senses	3cr
Medical and Professional Ethics	1cr	Bioactive Food Components	3cr
	9cr		11cr

Nutritional Counseling Graduate Certificate

This program prepares individuals to assume roles as health/wellness professionals in private business and industry, community organizations, and health care settings. Includes instruction in personal health, community health and welfare, nutrition, epidemiology, disease prevention, fitness and exercise, and health behaviors.

The fulfillment of our mission and goals through an integrated curriculum insures students attain the following learning outcomes:

1. Obtain an increased level of competence appropriate for an industry-credentialed nutritional specialist or other nutritional medicine health professional.
2. Possess critical thinking skills to adapt to changing clinical environments and patient needs.
3. Exhibit professionalism through consistent ethical behavior.
4. Demonstrate communication skills for effective communication with patients, families, and other healthcare providers.

Students progress through the curriculum and meet course learning objectives that culminate in the accomplishment of the above learning outcomes.

Application Requirements

- ✓ Letters of references
- ✓ Curriculum Vitae/Résumé
- ✓ Official transcripts from all higher education institutions
- ✓ Personal statement letter
- ✓ Copies of TOEFL or IELTS, if applicable
- ✓ Online application and \$35.00 application fee

Program Admission Requirements

- ✓ Bachelor, Master or Doctorate degree from a regional, national or international equivalency accredited agency recognized by the United States Department of Education
- ✓ A GPA of 3.0 or higher (on a 4.0 scale) for the last degree earned.
- ✓ If applicant's first language, or language of instruction, is not English, English proficiency examination scores are required. Test of English as a Foreign Language (TOEFL) minimum scores are 550 (paper-based) or 213 (computer-based) or 79 (internet-based). The International English Language Testing System (IELTS) minimum score required is 6.5. The PTE Academic minimum score required is 53.
- ✓ Active/Current Medical and/or License/Certification (examples include MD, DO, ND, DC, DPT, PharmD, PA-C, ARNP, RN, RPh, RD/LD/LN, LMHC, LMFT, LCSW, CAC)
- ✓ Interview with JPU representative
- ✓ Personal statement
- ✓ Three Letters of Reference

Program Completion Requirements

- ✓ Earn a cumulative program GPA of 3.0 or above on a 4.0 scale
- ✓ Earn a minimum of 20 program credits

Upon completion of the courses, the following credential will be awarded: Nutritional Counseling Graduate Certificate

Program Details

Required Credit hours: 20

Program Duration: 1 year (34 weeks)

Program Tuition: \$17,778

Rate per Credit: \$888.89

Curriculum

Core Courses (20 credits required)

NUT510	Introduction to Nutritional Psychology	3 credits
NUT512	Nutrition for Mental Health	3 credits
NUT513	Food & Emotions	3 credits
NUT514	Eating Disorders	3 credits
GASTP502	Principles of Neurophysiology	3 credits
GASTP505	Food & The Senses	3 credits
HP519	Public Law & Policy	1 credits
MD590	Medical and Professional Ethics	1 credits

Sample Plan of Study: Nutritional Counseling Graduate Certificate

Semester 1		Semester 2	
Introduction to Nutritional Psychology	3cr	Food & Emotions	3cr
Principles of Neurophysiology	3cr	Eating Disorders	3cr
Public Law & Policy	1cr	Nutrition for Mental Health	3cr
Medical and Professional Ethics	1cr	Food & The Senses	3cr
	8cr		12cr

Integrative and Functional Nutrition Graduate Certificate

This is a scientific program that focuses on the utilization of food for human growth and metabolism, in both normal and dysfunctional states, from the interdisciplinary perspective of the agricultural, human, biological, and biomedical sciences. Includes instruction in food science, biochemistry, physiology, dietetics, food and nutrition studies, biotechnology, biophysics, and the clinical sciences.

The fulfillment of our mission and goals through an integrated curriculum insures students attain the following learning outcomes:

1. Obtain an increased level of competence appropriate for an industry-credentialed nutritional specialist or other nutritional medicine health professional.
2. Possess critical thinking skills to adapt to changing clinical environments and patient needs.
3. Exhibit professionalism through consistent ethical behavior.
4. Demonstrate communication skills for effective communication with patients, families, and other healthcare providers.

Students progress through the curriculum and meet course learning objectives that culminate in the accomplishment of the above learning outcomes.

Application Requirements

- ✓ Letters of references
- ✓ Curriculum Vitae/Résumé
- ✓ Official transcripts from all higher education institutions
- ✓ Personal statement letter
- ✓ Copies of TOEFL or IELTS, if applicable
- ✓ Online application and \$35.00 application fee

Program Admission Requirements

- ✓ Bachelor, Master or Doctorate degree from a regional, national or international equivalency accredited agency recognized by the United States Department of Education
- ✓ A GPA of 3.0 or higher (on a 4.0 scale) for the last degree earned.
- ✓ If applicant's first language, or language of instruction, is not English, English proficiency examination scores are required. Test of English as a Foreign Language (TOEFL) minimum scores are 550 (paper-based) or 213 (computer-based) or 79 (internet-based). The International English Language Testing System (IELTS) minimum score required is 6.5. The PTE Academic minimum score required is 53.
- ✓ Interview with JPU representative
- ✓ Personal statement

Program Completion Requirements

- ✓ Earn a cumulative program GPA of 3.0 or above on a 4.0 scale
- ✓ Earn a minimum of 20 program credits

Upon completion of the courses, the following credential will be awarded: Integrative and Functional Nutrition Graduate Certificate

Program Details

Required Credit hours: 20

Program Duration: 1 year (34 weeks)

Program Tuition: \$17,778

Rate per Credit: \$888.89

Curriculum

Core Courses (20 credits required)

NUT500	Integrative & Functional Nutrition I	3 credits
NUT501	Integrative & Functional Nutrition II	3 credits
NUT502	Nutrition Assessment	3 credits
GASTP500	Food Ethnography	3 credits
GASTP501	Gastronomy Science	3 credits
GASTP505	Food & The Senses	3 credits
HP519	Public Law & Policy	1 credit
MP590	Medical and Professional Ethics	1 credit

Sample Plan of Study: Integrative and Functional Nutrition Graduate Certificate

Semester 1		Semester 2	
Integrative & Functional Nutrition I	3cr	Integrative and Functional Nutrition II	3cr
Nutrition Assessment	3cr	Gastronomy Science	3cr
Food Ethnography	3cr	Food and the Senses	3cr
Medical and Professional Ethics	1cr	Public Law & Policy	1cr
	10cr		10cr

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Medical Imaging Co-Program Director
Medical Imaging Co-Program Director
Medical Imaging Co-Program Director
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Educational Coordinator, Medical Dosimetry programs
Educational Coordinator (part-time), Medical Dosimetry programs
Educational Coordinator (part-time), Medical Dosimetry programs
Clinical Coordinator, Medical Dosimetry programs
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Michael Mast, MS, CMD, RT(T)

School of Imaging Sciences

Dr. Houman Vaghefi, M.D.
Ani Aprahamian, Ph.D.
Ryan Zenn, MS
Sandy Piehl, MS
Alayne Thorpe, Ph.D.
Michael Mast, MS, CMD, RT(T)

School of Nutritional Health

Tracy Koontz, RDN, CD
Irina Sparks, MD
Emily Moore, ND, LAc, FABNO
Alayne Thorpe, Ph.D.

Program Advisory Board: Medical Dosimetry & Radiation Therapy

Brent Murphy, MS, MBA, DABR
Scott Dube, MS DABR
Mellonie Brown-Zacarias, Ed.S., MET, CMD, RT(T)
Carol Scherbak, MSRS, RT(T)

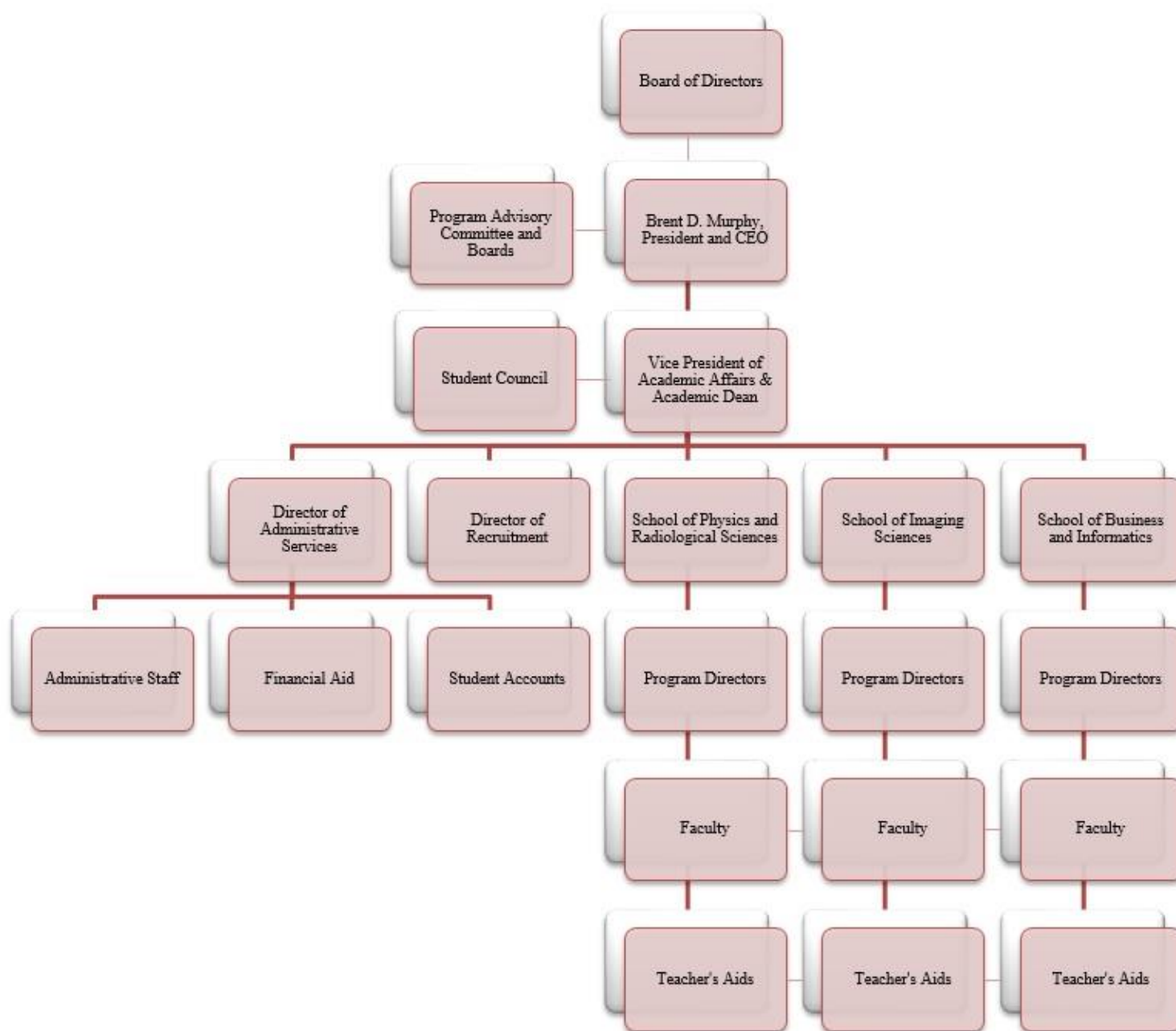
Teaching Assistants

Lacey Coffman, MS
Sanjeel Patel, MS, CMD, RT(T)
Erica Tuley
David Littlejohn, CMD, R.T.(T)

Amy Hauser, MS, CMD
Nathan Tuoch, MS
Brian Philip, MS
Asha Matin, MS, CMD

Bruce Phillips, CMD, RT(T)
Jason Burch, MS
Theodore LaMaster, MS

Organizational Chart



JOHN PATRICK UNIVERSITY OF HEALTH AND APPLIED SCIENCES COURSE CATALOG

Course Numbering System Descriptions

MP	Medical Physics
MHP	Medical Health Physics
HP	Health Physics
MD	Medical Dosimetry
GASTP	Gastro-Physics
NUT	Nutrition
ONC	Oncology
SCI	Science
BIOL	Biology courses
PHY	Physics courses
MATH	Mathematics

100-299	Associate level
300-499	Bachelor level
500-699	Graduate level

Credit hour definition

One semester credit hour equals, at a minimum, 15 classroom hours of lecture and 30 hours of laboratory or 45 hours of practicum. The formula for calculating the number of semester credit hours for each course is: $(\text{hours of lecture}/15) + (\text{hours of lab}/30) + (\text{hours of practicum}/45)$.

The University awards credit hours only, no clock hour to credit hour conversion is used.

*Dosimetry Program students who wish to be eligible to register for certification by the Medical Dosimetrist Certification Board (MDCB) must complete 720 internship hours as outlined by the Joint Review Committee on Education in Radiologic Technology (JRCERT). The Medical Dosimetry programs are accredited by JCERT.

GRADUATE LEVEL COURSE DESCRIPTIONS

MATH501 MATHEMATICAL METHODS 3 CREDITS

This course focuses on the fundamentals of statistical analysis for science. Emphasis is placed on statistic nomenclature, probability evaluation, hypothesis testing and evaluation, experimental design, regression models, and variable/data analysis.

MATH502 ADVANCED MATHEMATICAL METHODS 2 CREDITS

This course focuses advanced statistical analysis. Emphasis is placed on Multiple Data Comparisons, Clinical Regression Models, Time Series Analysis, Forecasting, Survival Analysis, Clinical Study Design, and Statistical Quality Control.

Prerequisite: Math 401

MP501/MD501

RADIATION DOSIMETRY

4 CREDITS

This course focuses on introducing radiation terminology used in radiation dosimetry. Fundamental dose calculation theories are reviewed and an emphasis is placed on clinical and radiation safety related dosimetry techniques.

Recommended: Calculus I and Calculus II

MP502/MD502

RADIATION BIOLOGY

3 CREDITS

This course focuses on introducing fundamental radiation biology concepts. Emphasis is placed on radiation interactions, cell damage, cell survival curves, cell sensitivity and response, factors affecting cell response, tissue kinetics, effects on the fetus, biological models, and radiobiological risk assessment.

MP503 / MD503

DIAGNOSTIC RADIOLOGY

3 CREDITS

This course focuses on introducing fundamental physics in the medical imaging profession. Fundamental concepts are applied to the system design of each imaging component presented. A special emphasis is placed on the implementation and application of each diagnostic imaging modality.

MP504 / MD504

NUCLEAR MEDICINE

3 CREDITS

This course focuses on introducing physical principles of radioisotopes and imaging systems used in medicine and biology. Imaging systems are discussed at length with a focus on applying universal imaging concepts such as contrast and resolution to the Anger camera, PET and SPECT scanners. Radiochemical therapy and other radiopharmaceuticals are discussed. Health physics and quality control issues pertinent to nuclear medicine physics are addressed.

MP505 / MD505

RADIATION ONCOLOGY I

3 CREDITS

This course focuses on applying the fundamental radiation oncology physics concepts to specialty procedures. Emphasis is placed on: Advanced electron beam therapy, electron arc therapy, electron IORT, stereotactic radiosurgery, IMRT, IGRT, IMET, Robotic therapy, Tomotherapy, physics measurement for specialty procedures using different phantoms, and comprehensive quality assurance.

MP506 / MD506

RADIATION ONCOLOGY II

3 CREDITS

This course builds upon the fundamental ideas developed in Radiation Oncology I. A wide range of specialized topics are covered. The intent is to familiarize the student with a broad swath of special procedures encountered in radiation oncology, and to provide in-depth understanding of the most common of these special procedures. The course also covers the process of machine acceptance and commissioning, the use of this data by the operator of the treatment planning system, and how the

system then uses that data to calculate doses from therapy devices. Emphasis throughout this course is placed on quality control and quality assurance.

Prerequisite: Radiation Oncology I MP505 or MD505

MP508

RADIOLOGICAL INSTRUMENTATION

2 CREDITS

This course focuses on introducing fundamental radiation measuring devices and instrumentation. Emphasis is placed on clinical use of the instrumentation in the Radiological Fields.

BIOL530

HUMAN ANATOMY & PHYSIOLOGY

4 CREDITS

This course is intended to provide the student with an overview of human anatomy and physiology in the framework of organ systems. The course is aimed at an audience of non-physician medical professionals, and as part of that end the anatomical component of the course emphasizes cross-sectional anatomy as seen on planar and cross-sectional medical imaging such as CT, PET, and MRI images.

MP520

COMPUTER SYSTEMS IN MEDICINE

2 CREDITS

In this course, students are presented with material that will ensure a standard level of computer ability. The student is acquainted with the basics of operation of modern computers and operating systems. They learn useful features of spreadsheet and database software (OpenOffice Calc and OpenOffice Base, analogous to Microsoft Excel and Microsoft Access) as well as the OpenOffice Math equation formatting package. The student is introduced to computer programming through FORTRAN, a high-level scientific computing language, and Python, used here as a scripting language. They are given an overview of two types of numerical programming package (matrix-directed and symbolic). The last lectures of the course are spent discussing an overview of the basics of computer networking and interfacing, the HL-7 hospital information interface standard, the DICOM image transport format and the PACS image storage and transfer architecture.

MP590

MEDICAL AND PROFESSIONAL ETHICS

1 CREDIT

This course focuses areas that require an understanding of medical ethics. Emphasis will be placed on Patient Data, Patient Records, Publications, Presentations, General Professional Conduct, Medical Malpractice, and Research.

MP599

SEMINARS

1 CREDIT

The seminars course is designed to provide informational seminars on new and emerging technologies, research, and relevant topics related to Medical Physics. The student will write a number of white papers on the subjects of these seminars.

MP602

ADVANCED RADIATION BIOLOGY

2 CREDITS

This course focuses on introducing advanced radiobiological concepts and practices. Emphasis is placed on tumor kinetics, radiation biology models, experimental set-up, and radiobiological treatment planning.

Prerequisite: Radiation Biology MP502 or MD502

MP603

ADVANCED DIAGNOSTIC RADIOLOGY

2 CREDITS

This course focuses on introducing advanced principles in the medical imaging sciences. Emphasis is placed on mathematical methods used for image creation and evaluation, ultrasound imaging, advanced CT imaging, and MRI imaging.

Prerequisite: Diagnostic Radiology MP503

MP611 / MD611

BRACHYTHERAPY

3 CREDITS

This course focuses on introducing fundamental radiation physics and safety of Brachytherapy.

Special emphasis is placed on both LDR and HDR Brachytherapy.

MP613 / MD613

NUCLEAR ONCOLOGY

3 CREDITS

This course introduces the new emerging field of Nuclear Oncology. Topics covered include: liver microsphere treatment imaging and treatment, I-131 thyroid ablation, and high dose I-131 thyroid ablation, Sr-89 treatment, and new experimental isotopes.

MP615 / MD615

PROTON THERAPY

2 CREDITS

This course gives the student a background in the fundamental science underlying proton and heavy ion therapy. The radiological physics of these particles is treated first to give the student background necessary for the remainder of the course. The remainder of the course emphasizes the unique challenges faced and opportunities made possible in the use of these types of treatments; these points are presented in contrast with standard x-ray and electron therapy.

MD588

CLINICAL TREATMENT PLANNING I

2 CREDITS

The ability to create a workable treatment plan is the fundamental responsibility of the medical dosimetrist, and is a skill that a medical physicist must keep well in practice. To give the student some experience in treatment plan creation, this course asks the student to create a series of deliverable treatment plans in the form of labs pertaining to each body site. The student will be competent in every aspect of the treatment plan, including common prescriptions and target volumes, dose constraints to critical structures, and plan evaluation.

Certified Medical Dosimetrists may take Education and Practicum I (MD610) in lieu of this course.

MD590

CLINICAL TREATMENT PLANNING II

2 CREDITS

This course focuses on applying the fundamentals of 2D-3D treatment planning concepts to include an anatomical and biological overview of multiple cancer types. An emphasis is placed on understanding basic site specific radiation treatment planning techniques and different cancer treatment options. Site specific cancer overview may include epidemiological statistics, anatomy, pathology, clinical presentation, routes of spread, diagnostic studies, staging, prognostic factors, and treatment toxicity. CT anatomy and multiple imaging modalities will accompany treatment planning lab exercises.

Prerequisite: Clinical Treatment Planning I (MD588)

Certified Medical Dosimetrists may take Education and Practicum II (MD611) in lieu of this course.

MD688

CLINICAL TREATMENT PLANNING III

2 CREDITS

This course focuses on applying the fundamentals of 3D and IMRT treatment planning concepts to include image guidance with an anatomical and biological overview of multiple cancer types. An emphasis is placed on understanding basic site specific radiation treatment planning techniques and different cancer treatment options. Site specific cancer overview may include epidemiological statistics, anatomy, pathology, clinical presentation, routes of spread, diagnostic studies, staging, prognostic factors, and treatment toxicity. Special procedures including Stereotactic Radiosurgery (STS), Stereotactic Body Radiation (SBRT) and Hyperthermia will be discussed in relation to planning and treatment delivery. Specialized radiation therapy equipment (Tomotherapy, Gamma Knife and CyberKnife) used to deliver special procedures will be evaluated and compared to traditional linear accelerator treatments. CT anatomy and multiple imaging modalities will accompany treatment planning lab exercises.

Prerequisite: Clinical Treatment Planning II (MD590)

Certified Medical Dosimetrists may take Education and Practicum III (MD612) in lieu of this course.

MD690

CLINICAL TREATMENT PLANNING IV

2 CREDITS

This course focuses on applying the fundamentals of IMRT, VMAT, and Brachytherapy treatment planning concepts to include an anatomical and biological overview of multiple cancer types. An emphasis is placed on understanding advanced radiation treatment planning techniques and comparison between static and volumetric intensity modulated treatment plans. Additional emphasis will be given to HDR/LDR brachytherapy treatment planning. Site specific cancer overview may include epidemiological statistics, anatomy, pathology, clinical presentation, routes of spread, diagnostic studies, staging, prognostic factors, and treatment toxicity. Special procedures including Proton Therapy, Heavy Charged Particle Therapy and Radioisotope Therapy will be discussed in relation to general theory, planning techniques and treatment delivery. CT anatomy and multiple imaging modalities will accompany treatment planning lab exercises.

Prerequisite: Clinical Treatment Planning III (MD688)

Certified Medical Dosimetrists may take Education and Practicum IV (MD613) in lieu of this course.

MD610

EDUCATION AND PRACTICUM I

2 CREDITS

Education and Practicum I is offered to those students who have passed the Certified Medical Dosimetrist (CMD) board exam given by the Medical Dosimetry Certification Board (MDCB). This class will offer alternative assignments dealing with current and experimental special radiation therapy procedures such as: Cyberknife, Tomotherapy, Particle Therapy, Stereotactic Radiosurgery, and Brachytherapy. This course will provide an introduction to clinical research. Students are expected to prepare clinical or research presentations. The student will present projects to faculty and peers during university meetings. Students are also encouraged to present their clinical research during local, regional, or national professional society meetings. In addition, students will gain experience in dosimetry planning lab instruction and leadership development skills. These classes will progress in increasing complexity from I-IV.

Prerequisite: Anatomy 1 semester

MD611

EDUCATION AND PRACTICUM II

2 CREDITS

Education and Practicum II is offered to those students who have passed the Certified Medical Dosimetrist (CMD) board exam given by the Medical Dosimetry Certification Board (MDCB). This course follows in sequence the Education and Practicum I course and expands on leadership and lab instruction. This class will offer alternative assignments dealing with current and experimental special radiation therapy procedures such as: Cyberknife, Tomotherapy, Particle Therapy, Stereotactic Radiosurgery, and Brachytherapy. This course will provide an introduction to clinical research. Students are expected to prepare clinical or research presentations. The student will present projects to faculty and peers during university meetings. Students are also encouraged to present their clinical research during local, regional, and national professional society meetings. These class will progress in increasing complexity from I-IV.

Prerequisite: Education and Practicum I (MD610)

MD612

EDUCATION AND PRACTICUM III

2 CREDITS

Education and Practicum III is offered to those students who have passed the Certified Medical Dosimetrist (CMD) board exam given by the Medical Dosimetry Certification Board (MDCB). This course follows in sequence the Education and Practicum II course and expands on clinical case studies and presentation skills. This class will offer alternative assignments dealing with current and experimental special radiation therapy procedures such as: Cyberknife, Tomotherapy, Particle therapy, Stereotactic Radiosurgery, and Brachytherapy. This course will provide an introduction to clinical research. Students are expected to prepare clinical or research presentations. The student will present projects to faculty and peers during university meetings. Students are also encouraged to present their clinical research during local, regional, and national professional society meetings. In addition, students will gain experience in dosimetry planning lab instruction and leadership skills. These classes will progress in increasing complexity from I-IV.

Prerequisite: Education and Practicum II (MD611)

MD613

EDUCATION AND PRACTICUM IV

2 CREDITS

Education and Practicum IV is offered to those students who have passed the Certified Medical Dosimetrist (CMD) board exam given by the Medical Dosimetry Certification Board (MDCB). This course follows in sequence the Education and Practicum III course and expands on clinical case study presentations and lab instruction. This class will offer alternative assignments dealing with current and experimental special radiation therapy procedures such as: Cyberknife, Tomotherapy, Particle Therapy, Stereotactic Radiosurgery, and Brachytherapy. This course will provide an introduction to clinical research. Students are expected to prepare clinical or research presentations. The student will present projects to faculty and peers during university meetings. Students are also encouraged to present their clinical research during local, regional, and national professional society meetings. Students will gain experience in dosimetry planning lab instruction and leadership skills. These classes will progress in increasing complexity from I-IV.

Prerequisite: Education and Practicum III (MD612)

MD695

CAPSTONE (non-CMD)

3 CREDITS

This course will include a comprehensive review of content in medical dosimetry. It is designed to assist the student in preparing for the national certification examination in medical dosimetry. It is also designed to prepare the M.S. student to enter the workforce. This course is Pass/Fail and should be taken by the non-certified medical dosimetry student.

MD697

CAPSTONE (CMDS)

4 CREDITS

This course is designed to be the culminating course for the Master of Science candidate who has already achieved their national certification in medical dosimetry. Included will be a clinical project with a clinical journal and 180 hours of clinical experience required. The course will also include submission of a literature review and original research project.

MP699 / MD699

CLINICAL INTERNSHIP

4 CREDITS

The internship is designed to give the student laboratory/clinical instruction in specific areas of medical physics or dosimetry practice. The student keeps a daily journal of their progress on each of the course competencies, to include not only assigned calculations and discussions but also relevant notes and observations on clinical practice.

MHP510

HEALTH PHYSICS AND RADIATION SAFETY

3 CREDITS

This course focuses on introducing physical principles of radioisotopes and imaging systems used in medicine and biology. Imaging systems are discussed at length with a focus on applying universal imaging concepts such as contrast and resolution to the Anger camera, PET and SPECT scanners. Radiochemical therapy and other radiopharmaceuticals are discussed. Health physics and quality control issues pertinent to nuclear medicine physics are addressed.

Prerequisites: MP504 and MP505; must be taken after or concurrently with MP503

MHP601

SHEILDING DESIGN

2 CREDITS

This course focuses on technical aspects of Radiation Shielding fundamentals. Emphasis is placed on facility shielding for radiation devices to include: x-ray units, CT units, HDR Brachytherapy units, and therapy treatment units.

MHP602

REACTOR HEALTH PHYSICS

3 CREDITS

This course focuses on technical aspects of reactor health physics. Emphasis is placed on reactor operation, reactor waste, reactor processes, and establishment of the Health Physics Program.

MHP603

NON-IONIZING RADIATION SAFETY

2 CREDITS

This course focuses on introducing fundamental concepts and safety with non-ionizing radiation sources. Emphasis will be placed on sources of the non-ionizing radiation, interaction with humans and biological effects within the body. Pertinent studies will be discussed and Exposure limits by international bodies will be referred.

MHP605

REGULATIONS AND LICENSING

2 CREDITS

This course focuses on the regulatory agencies, the respective regulations, and licensing of radiation devices. Emphasis is placed on learning the working regulations of the NRC, EPA, DOT, and other respective guidelines.

MHP606

ENVIRONMENTAL HEALTH PHYSICS

2 CREDITS

This course focuses on technical aspects of environmental health physics. Emphasis is placed on radon evaluation, environmental monitoring and techniques, dose assessment from water, air, gas, and food, dose and risk assessment.

MHP607

RADIATION ONCOLOGY DEPARTMENT MANAGEMENT

2 CREDITS

This course focuses on management techniques for medical professionals in the radiation oncology field. Emphasis is placed general management techniques and managing radiation oncology professionals. Implementation of a New Cancer Center is also discussed.

MHP609

RADIATION ONCOLOGY FINANCIALS

2 CREDITS

This course focuses on the financial aspects of a Radiation Oncology Department. Emphasis is placed and technical and professional billing, budget development, contract evaluation, and program start-up cost.

HP501

ADVANCED RADIATION DOSIMETRY

This course provides a broad overview of topics in radiation dosimetry for health physicists.

HP509

ADVANCED RADIOLOGICAL INSTRUMENTATION

This course is an extension of the Radiological Instrumentation course. Students will learn more in-depth neutron detection methods, solid state detectors, and Gel Dosimetry. Discussions will be extended to calorimetry and chemical dosimetry. Linear and Logic Pulse Functions and multichannel pulse analysis will be studied.

HP612

ADVANCED ENVIRONMENTAL HEALTH PHYSICS

This course discusses Environmental Health Physics using a case study approach. There will be a comprehensive comparison between health and hazard risk assessment as well as a discussion on principles and calculations to understand the concept of environmental health physics.

HP514

RADIATION EMERGENCIES

This course discusses the methods and current requirements to be followed in radiation emergencies.

HP513

HAZARDOUS WASTE HANDLING

This course covers the appropriate ways of handling radioactive and hazardous waste as well as health and safety related to hazardous waste workers. Licensing and Regulations requirements in reference to the handling of radioactive materials will also be discussed.

HP517

ACCELERATOR HEALTH PHYSICS

Students will learn about principles of the different types of accelerators. This will be followed by radiation monitoring and shielding of high energy electron and proton accelerators. Students will also be exposed to challenges of personal dosimetry and environmental monitoring.

HP518

ENVIRONMENTAL EPIDEMIOLOGY

This course will discuss the environmental epidemiology studies. The discussion will also incorporate ionizing radiation effects, electromagnetic fields and cancer risk and health effects from environmental noise exposure. Students will also learn about statistical issues in the design and analysis of epidemiological studies.

HP519

PUBLIC LAW AND POLICY

This course will detail public health and protection of individual's rights. Students will also learn about global health law and public health governance. There will also be a discussion on public health strategies and medical countermeasures of epidemic diseases.

HP699

CLINICAL INTERNSHIP

6 CREDITS

The internship is designed to give the student laboratory/professional experience in health physics. The student keeps a daily journal of their progress on each of the course competencies, to include not only assigned calculations and discussions but also relevant notes and observations.

HP611

ADVANCED REACTOR MEDICINE

This course will be an in-depth discussion on dose reduction methods, decommissioning criteria, and management of low level and mixed waste. The class will review risk management and safety related issues with nuclear reactors. Discussions on pertinent NUREG reports and NRC reports will be encouraged.

NUT500

INTEGRATIVE & FUNCTIONAL NUTRITION I

3 CREDITS

This course provides an overview of patient-centered clinical knowledge for effective, holistic and integrative nutritional support in and within the field of Nutrition Oncology specific for healthcare professionals

NUT501

INTEGRATIVE & FUNCTIONAL NUTRITION II

3 CREDITS

This course reviews the advanced practice of personalized nutrition assessment, diagnosis, intervention, and monitoring, with the goals of promoting optimal health and preventing diet-and lifestyle-related disease from the perspective of Nutrition Oncology.

NUT502

NUTRITION ASSESSMENT

3 CREDITS

This course reviews deficiency assessment, nutritional screening and surveillance, dietary assessment, hunger and food security as well as diet diversity and food group indices will be examined. Clinical methods including body composition, biochemical and clinical factors related to macro and micronutrient deficiency will be discussed.

NUT503

DIET, GENES & NUTRITION

3 CREDITS

This course reviews to understand the relationship between food and genetics. The course explores topics including epigenetics and nutrigenetics, the human genome and the ethical issues surrounding genetic healthcare.

NUT507

NUTRITION ONCOLOGY

3 CREDITS

This course role of nutrition in cancer prevention and survivorship, standards for diagnosing malnutrition, and research. Exploration into accurate and current reviews of the roles of vitamin, mineral, herbal and botanical supplements in cancer prevention and treatment and the role of nutrition in

Integrative Oncology will be discussed based on Oncology Nutrition Practice set by the Academy of Nutrition and Dietetics.

NUT510

INTRODUCTION TO NUTRITIONAL PSYCHOLOGY

3 CREDITS

This course reviews psychological theories that are known to drive human eating behavior, and reveal how these models can be transformed into proactive strategies for adhering to healthy dietary regimens.

NUT512

NUTRITION FOR MENTAL HEALTH

3 CREDITS

This course will review strategies to a client's dietary needs through effective interviewing, assessing, and counseling. It will also discuss encouraging clients to make and maintain dietary changes utilizing counseling theory and communication techniques.

NUT513

FOOD & EMOTIONS

3 CREDITS

This course covers topics in the brain; from eating habits, emotion, genetics, lifestyle, nutrients, and psychology as the role is plays in emotions and the interactions of proper nutritional therapy. It will explore principles and practices necessary to provide clients with nutritional counseling to improve mood and mental health.

NUT514

EATING DISORDERS

3 CREDITS

This course will introduce and review the history, etiology, prevalence, early recognition, treatment and prevention of anorexia nervosa, bulimia nervosa, binge eating disorder, and disordered eating behaviors.

GASTP500

FOOD ETHNOGRAPHY

3 CREDITS

This course explores what food ethnography is and how food ethnographers work. Students will learn about food ethnography by reading and discussing its methods and by practicing them. Students will write a research design for an ethnographic project on some aspect of their city, state or country's multifaceted alternative food system, carry out the research, analyze their data, and write up and orally present the results. Students will learn about and use the methods of participant observation, interviews, photography, food mapping, informant documentation, food logs, and others. They will learn about research ethics. They will pay particular attention to the ways that studying food culture presents unique methods and insights.

GASTP501

GASTRONOMY SCIENCE

3 CREDITS

This course introduces a number of basic scientific principles underpinning the methodology of cooking, food preparation and the enjoyment of food. All topics covered have a strong basis in

biology, chemistry, and physics application. Among others, they include the consumption of cooked food, the physiological and evolutionary implication of the senses, geographic and cultural influences on food, and the rationale behind food preparation. We will also discuss issues such as coupling of senses to improve sense stimulation; altering flavor by chemical means; and modification of the coloration to improve the appearance of dishes

GASTP502

PRINCIPALS OF NEUROPHYSIOLOGY

3 CREDITS

This course in neurophysiology covers the basic principles of neuron signaling and interactions that underlie brain function, spanning from the function of individual neurons to the function of neuronal circuits that produce behavior. Topics to be covered include neuron morphology, basic electrical properties, ion channels, action potential propagation, synaptic physiology, synaptic integration, and neuronal circuit configuration and function.

GASTP503

PSYCHOPHYSICS

3 CREDITS

This course will provide an introduction to the use of psychophysical methods in computer graphics and will teach attendees how to develop experiments that can be used to advance graphics research and applications. Throughout the course, graphics-relevant examples will be used so students will understand how to design and run their own experiments; analyze the results; and develop perceptually-based algorithms and applications.

GASTP505

FOOD & THE SENSES

3 CREDITS

Sensory analysis (or sensory evaluation) is a scientific discipline that applies principles of experimental design and statistical analysis to the use of human senses (sight, smell, taste, touch and hearing) for the purposes of evaluating consumer products.

SCI600

INTRO. TO NANOSCIENCE & NANOTECHNOLOGY

2 CREDITS

This course introduces the interdisciplinary nature of nanotechnology and nanoscience (including areas of chemistry, material science, physics, and molecular biology), to of nanoscience phenomena; principles of nanoscale phenomena including synthesis and characterization of nanostructures.

SCI601

BIOACTIVE FOOD COMPONENTS

3 CREDITS

This course will have a broad overview of basic bioactive food components: polyphenols, anthocyanins, carotenoids, flavonoids, glucosinolates, isoflavonoids, limonoids, omega-3 and 6 fatty acids, phytoestrogens, phytosterols, probiotics, resveratrol and terpenoids. Discuss the concepts in evaluation of bioactivity and functionality and describe the known groups (food categories included) of bioactive components.

SCI602

GENOMIC SCREENING

2 CREDITS

This course provides an overview of human genetics concepts including Mendelian and non-Mendelian inheritance and provides a broad overview of the goals, methods, and applications for genomics and proteomics in the life sciences.

ONC500

INTRODUCTION TO RADIOATION ONCOLOGY

2 CREDITS

This course will review fundamentals of clinical radiation oncology. The medical, biological, and pathological aspects as well as the physical and technical aspects will be discussed.

ONC501

INTRODUCTION TO MEDICAL ONCOLOGY

2 CREDITS

This course will allow the learner to understand and interpret established and evolving biomedical, clinical, and cognate (e.g. epidemiological and social-behavioral) sciences and the application of this knowledge to patient medical oncology care.

ONC502

INTRODUCTION TO SURGICAL ONCOLOGY

2 CREDITS

This course will have a study of the types surgery used along with other treatments in the management and treatment of oncological-health procedures. Procedures reviewed will include: chemotherapy, biologic, targeted or immune therapies, radiation therapy, and hormone therapy.

FACULTY AND STAFF ADDENDUM – Volume 16 (August 2019)

Faculty and Staff

Faculty members are selected on the basis of professional experience, expertise in teaching theoretical and applied subjects, research and case study supervision capabilities, involvement in community and professional affairs, and leadership and role model capabilities essential to student advancement and professional growth.

Faculty Listing

Brent Murphy, MS, DABR	MS Medical Physics from the University of Wisconsin Area of specialization-Medical Physics Program Chair-Medical Physics, Medical Dosimetry
Scott Dube, MS, DABR	MS Radiological Sciences from the University of Colorado Area of specialization –Medical Physics
Steve Goetsch, Ph.D.	Ph.D. University of Wisconsin Area of specialization-Medical Physics
Carl Helrich, Ph.D.	Ph.D. Northwestern University Area of specialization-Physics
Michael Stabin, Ph.D., CHP	Ph.D. University of Tennessee Area of specialization-Nuclear Engineering
Wanpeng Tan, Ph.D.	Ph.D. Michigan State University Area of specialization-Physics
Liliana Braescu, Ph.D.	Ph.D. West University of Timisoara Area of specialization-Mathematics
David Phebus, MS, CMD	MS John Patrick University of Health and Applied Sciences Area of specialization-Medical Dosimetry
Manuel Arreola, Ph.D., DABR	Ph.D. University of Florida Area of specialization-Diagnostic Medical Physics
Renat Letfullin, Ph.D.	Ph.D. Saratov State Area of specialization-Physics and Nanotechnology
John Lowden, MS, DABR, CMD	MS Purdue University Area of specialization-Medical Physics
Nichole LaMaster, D.C.	BS Indiana University D.C. Logan College of Chiropractic Area of specialization-Human Anatomy & Physiology

David Trump, Ph.D.	Ph.D. DePauw University Area of specialization-Medicinal Chemistry
Mellonie Brown, Ed.S., CMD, R.T.(T.)	Ed.S. Liberty University M.E.T. Boise State University BS Medical University of South Carolina BS Erskine College Area of Specialization-Radiation Therapy and Dosimetry
David Good, MS, DABR	MS Duke University Area of specialization-Medical Physics
Micah Hamanaka, Ph.D.	Ph.D. Northwestern University MS University of Notre Dame Area of specialization-Biomedical Engineering
Hugh Gerard, CMD, R.T.(R)(T)	B.A. Indiana University A.S. Radiation Therapy A.S. Radiography Area of specialization-Radiation Therapy and Dosimetry
James Wheeler, M.D., Ph.D.	M.D. University of Kansas School of Medicine Ph.D. University of Notre Dame B.A. St. Mary of the Plains College Area of specialization-Radiation Oncology
Jasmin Miller, DBA, CNMT	Ph.D. Keiser University MS Keiser University BS Nuclear Medicine Area of specialization-Nuclear Medicine
Isabel Breen, Ph.D., R.T.(N)	Ph.D. Keiser University MS Kennesaw State University BS Portland State University Area of specialization-Nuclear Medicine
Benjamin Robison, MS, DABR	MS University of Tennessee BS Maryville College Area of specialization-Medical Physics
Samantha Hedrick, Ph.D., DABR	Ph.D. University of Missouri-Columbia MS University of Missouri-Columbia BS Missouri University of Science and Technology Area of specialization-Medical Physics
Joseph Simmons, BS, CMD, RT(R)(T)	BS Southern Illinois University Area of specialization-Radiation Therapy & Medical Dosimetry

Meridith Brown, MBA, RT(R) (MR)(CT)(M)	MBA Bryan College BS Bryan College AS Chattanooga State Technical Community College Area of specialization-Radiography
Adrienne Dougherty, Ed.D., RT(T)	Ed.D. Walden University MET Strayer University BA College of Notre Dame of Maryland AAS Community College of Baltimore County Area of specialization-Radiation Therapy
Wale Ade-Oshifogun, MBA, Ed.D.	Ed.D. National Louis University MBA Illinois Institute of Technology BA Andrews University Area of specialization-Data Science/Information Systems
Michael Dubanewicz, Ed.D., CCN, CFM, CDM, CFPP	Ed.D. Breyer State University M.Ed. California Coast University BS Johnson & Wales University Area of specialization-Nutritional Health
Bonnie Brock, MPH, RD, LDN, ND	ND National University of Health Sciences BS Cornell University Area of specialization-Nutritional Health
Dawn Wilson-Kendall, DC	DC Logan University BS Logan University BS Life University Area of specialization-Chiropractic
Debra Landes, MEd, LMHC	MS Florida Atlantic University BS Florida Atlantic University Area of specialization-Counseling
Kimberly Auvil, DAC, MPH, MAC	DAC Pacific College of Oriental Medicine MS Mass College of Pharmacy & Health BS Salem State University Area of specialization-Nutritional Health
Maureen Ake, MS, LCMFT	MS Nova Southeastern University BS Catholic University of America AS Culinary Institute of America Area of specialization-Nutritional Health and Counseling
Shawna Kunselman, MSACN, CNS	MS New York Chiropractic College BS Angelo State University Area of specialization-Nutritional Health

Tommy Costantino, MS, CMD, RT(T)	MS Radiological Technologies University BS Boston University Area of specialization-Dosimetry, Radiation Therapy
Jamie Culbertson, MA	MA Northern Arizona University BA University of South Carolina Aiken Area of specialization-English
Eric Lobel, MA, RT(R)	MA Brooklyn College, City University of New York BS Saint Joseph's College AAS Westchester Community College Area of specialization-Radiography
Joseph Cianci, MSA, RT(R)(CT)	MSA Central Michigan University BS St. Joseph's College Area of specialization-Radiography, Computed Tomography
Christian Pascarella, BS, RT(R)	BS St. Francis College Area of specialization-Radiography
Donald LaFleur, MS, MSE, RDMS, RDCS, RVT	MSE University of Wisconsin - Stout MS Radiological Technologies University BS University of Wisconsin LaCrosse Area of specialization-Medical Physics, Sonography
Doug Scripture, MA, MS, LPC, NCC, CPC, CPA	MA Western Michigan University MS Walsh College of Accountancy and Business Administration BA Oakland University Area of specialization-Business Admin., Accounting, Counseling

Staff Listing

Brent Murphy, MS, MBA, DABR	President, CEO, CFO Acting Dean, School of Business & Informatics
Renat Letfullin, Ph.D.	Director of Education, Vice President of Academic Affairs & Academic Dean; Dean, School of Physics and Radiological Sciences
Steve Goetsch, Ph.D., DABMP	Assoc. Dean, School of Physics and Radiological Sciences; Medical Physics Program Director
Mellonie Brown-Zacarias, Ed.S., CMD, R.T.(T.)	Dean, School of Imaging Sciences Medical Dosimetry & Medical Imaging Program Director
Jasmin Miller, DBA, CNMT	Assoc. Dean, School of Imaging Sciences, Nuclear Medicine Program Director

Dave Phebus II, MS, CMD, R.T.(T.)	Acting Assoc. Dean, School of Business & Informatics; Educational Coordinator (part-time), Medical Dosimetry programs
Manuel Arreola, Ph.D., DABR	Medical Physics Imaging Program Director
Cheryl Turner, Ed.D., R.T.(R)(T)	Radiation Therapy and Radiologic Science Program Director
James Wheeler, MD, Ph.D.	Medical Director, Medical Dosimetry programs
Crystal Stancell, BS, CMD	Educational Coordinator, Medical Dosimetry programs
Thomas Costantino, MS, CMD	Educational Coordinator, Medical Dosimetry programs
Kayla Brown, MS, CMD	Clinical Coordinator, Medical Dosimetry programs
Elizabeth Datema, BS	Director of Administrative Services, Financial Aid
Linda Murphy, MSL	Director of Recruitment
Sheila Makala, MLS	Librarian
Debra Merley	Administrative Assistant, Student Accounts
Tammy Orta	Administrative Assistant

Professional Services

Accounting:

Steven A. Goldberg, CPA
Cullar & Associates PC

Legal:

Taft Stettinius & Hollister, LLP

Legal control of the organization is through the primary membership of the limited liability corporation which is controlled by Brent D. Murphy. Brent Murphy is the sole member.