

Bachelor of Science

Radiation Therapy

Radiation Therapists administer differing forms of ionizing radiation to specific sites of a patient's body to treat benign and malignant tumors. They operate various types of equipment and observe the clinical progress of patients to identify and minimize complications.

SCHOOL OF MEDICINE HEALTH PROFESSIONS PROGRAMS
INDIANA UNIVERSITY SYSTEM COURSE EQUIVALENTS

BACHELOR OF SCIENCE IN RADIATION THERAPY PREREQUISITES


Advisors should always check to make sure students have completed any needed prerequisites for each of the courses listed below.

COURSES IN IU SYSTEM

COURSES	IUB	IUPUI	IUPUC	IUE	IPFW	IUK	IUN	IUSB	IUS
Written Communication (Two courses)	ENG-W 131* & 231**	ENG-W 131 & 231**	ENG-W 131 & 231**	ENG-W 131 & 231**	ENG-W 131 & 233**	ENG-W 131 & 231**	ENG-W 131 & 231**	ENG-W 131 & 231**	ENG-W 131 & 231**
<p>*Check specific campus bulletin for other equivalents to ENG-W 131</p> <p>**ENG-W 231/233 is the preferred course. ENG-W 132 at IUPUI (and other campuses) can be substituted. COAS-W 333 Intensive Writing at IUB (and other campuses) combined with another course will also satisfy the second written communication requirement.</p>									
Verbal Communication (One Course)	CMCL-C 121 or 122	COMM-R 110 or C 180	COMM-R 110 or C 180	SPCH-S 121 or CMCL-C 122	COM 114 or 212	SPCH-S 121 or 122	SPCH-S 121 or 122	SPCH-S 121 or 122	SPCH-S 121 or 122
Humanities (One Course)	APPROVED SUBJECT AREAS INCLUDE: Minimum of 3.0 cr hrs. Classical studies, literature, English, film studies, folklore, foreign language, history, journalism, philosophy, religion, speech communication (additional course), minority studies, visual and performing arts. Other areas can be taken with approval of the program's admissions committee.								
Social /Behavioral Sciences (Two Courses)	PSY-P 101 or 102 & one elective	PSY-B 104 or 105 & one elective	PSY-B 104 or 105 & one elective	PSY-P 103 & one elective	PSY 120 & one elective	PSY-P 103 & one elective	PSY-P 101 & one elective	PSY-P 103 & one elective	PSY-P 101 & one elective
APPROVED ELECTIVE SUBJECT AREAS INCLUDE: Psychology, Sociology, and Anthropology (<i>Preferred</i>). Other content areas such as Economics, Minority Studies, and Political Science will be accepted upon approval (based on course content).									
Mathematics	MATH-M 025 & 026 or M 119	MATH 15300 & 15400 or 15900 or M 119	MATH 15300 & 15400 or 15900 or M 119	MATH-M 125 & 126 or M 119	MA 153 & 154 or 159	MATH-M 125 & 126 or M 119	MATH-M 125 & 126 or M 119	MATH-M 125 & 126 or M 119	MATH-M 125 & 126 or M 119
NOTE: Students taking only calculus may be disadvantaged in Math/Science GPA pts and in trig-based physics courses									
Introduction to Computers (One Course)	CSCI-A 110 or 201 or BUS-K 201	CSCI-N 100 or CIT 10600 or BUS-K 201	CSCI-N 100 or CIT 10700	CSCI-A 110 or COLI-S series	CS 106 or BUS K00 or equivalent	CSCI-C106 or CNIT 13600 or BUS-K 201	CSCI-C 106 or A 106 or BUS-K 201	CSCI-A106 or C 101 or BUS-K 201	CSCI-C 106 or A 201
Statistics*** (One Course) <i>Other equivalents can be substituted</i>	MATH-K 300 or PSY-K 300	STAT 301 or PSY-B 305 or SPEA-K 300	STAT 301 or PSY-B 305	MATH-K 300 or PSY-K 300	STAT 301 or PSY 201	STAT 301 or PSY-K 300	PSY-K 300 or SPEA-K 300	MATH-K 310 or SPEA-K 300	MATH-K 300 or ECON-E 280
*** Students entering in summer 2010 will be required to complete a statistic course for entry.									
Human Anatomy and Physiology (Two Courses)	ANAT-A 215 & PHSL-P 215 or P431	BIOL-N 261 & N 217 OR BIOL-N 212/213 & 214/215	BIOL-N 261 & N 217 OR BIOL-N 212/213 & 214/215	ANAT-A 215 & PHSL-P 215 OR PHSL-P 261 & 262	BIOL 215 & 216 OR BIOL 203 & 204	ANAT-A 215 & PHSL-P 215	PHSL-P 261 & 262 OR 431	PHSL_P 261 & 262	ANAT-A 215 & PHSL-P 215
Physics w/ Lab (One Course)	PHYS-P 201 or 221	PHYS-P 201 or 21800	PHYS 21800	PHYS-P 201	PHY 201 or 218 or 220	PHYS-P 201	PHYS-P 201	PHYS-P 201	PHYS-P 201

COURSES	IUB	IUPUI	IUPUC	IUE	IPFW	IUK	IUN	IUSB	IUS
COURSES IN IU SYSTEM (Continued)									
Medical Terminology# (One Course)	CLAS-C 209	CLAS-C 209 or RADI-R 108 or HIA-M 330	HIA-M 330	NURS-A 111	BIOL 105 or NURS 106 or AHLT-R 185	CLAS-C 209	AHLT-R 185	NURS-B 105 or AHLT-R 185	AHLT-M 195
	# CLAS C209 is available through correspondence at IU Bloomington								
Business Electives (Two Courses; 6.0 cr hrs)	<p>Students must complete six credits of business courses. Options include, but are not limited to, BUS-X 100 (Intro to Business), BUS-F 200 or 260 (Personal Finance), BUS-A 200 (Accounting) and BUS-W 200 (Business Management). Please check with advisor for other options.</p> <p>NOTE: Additional health care <u>management</u> or <u>administration</u> related courses taught by other IU departments can be taken or accepted upon administrative approval; email askhpp@iupui.edu or call (317) 278-4752 for more details.</p>								

OTHER APPROVED COURSES STATE-WIDE

Courses	Ball State University	Butler University	Indiana State University	Ivy Tech – Indpls	Marian College	Purdue – Calumet	Purdue – West Lafayette	University of Indpls	University of Southern Indiana	Vincennes University
Written Communication	ENG 103 & 104 or 231	EN 102 & 201	ENG 105 or 107 and 305T	ENG 111 & 112	ENG 101 & 115	ENGL 104 & 105	ENGL 106 & one upper level writing course	ENG 101 & 102	ENG 101 & 201 or 210	ENGL 101 & 102
Verbal Communication	COMM 210 or 240	COMM 102	COMM 101 or 202	COMM 101 or 102	COM 101	COM 114	COM 114 or 212	COMM 100	CMST 101 or 107	SPCH 143 or 148
Humanities	APPROVED SUBJECT AREAS INCLUDE: Minimum of 3.0 cr hrs. Classical studies, literature, English, film studies, folklore, foreign language, history, journalism, philosophy, religion, speech communication (additional course), minority studies, visual and performing arts. Other areas can be taken with approval of the program's admissions committee.									
Psychology	PSYSC 100	PS 101	PSY 101	PSY 101	PSY 101	PSY 120	PSY 120	PSY 120	PSY 201	PSYC 141 or 142
Social Behavioral Sciences Elective	APPROVED ELECTIVE SUBJECT AREAS INCLUDE: Psychology, Sociology, and Anthropology (<i>Preferred</i>). Other content areas such as Economics, Minority Studies, and Political Science will be accepted upon approval (based on course content).									
Math	MATH 111 & 112	MA 102 & 106	MATH 115	MATH 136 & 137 or 131 & 132	MAT 230	MA 153 & 154 or 159	MATH 153 & 154 or 159	MATH 180	MATH 111 & 112	MATH 102 & 104
Statistics (One Course)	PSYSC 241 or MAT 221 or equiv	MA 103 or 260 or equiv	PSY 375 or MATH 241 or equiv	MAT 115	PSY 205 or MAT 130 or equiv	STAT 301 or BIOL 330 or equiv	STAT 301 or SOC 382 or equiv	MATH 220 or equiv	PSY 303 or MATH 241 or equiv	MATH 110 or BMM 265
Computer Science	 3 credits in computer science or computer technology ensuring basic computer skills (word processing, spreadsheet, database, internet, and e-mail)									
Human Anatomy w/lab	ANAT 201	BI 257 or PX 311	LIFS 231 & 231L	ANP 101 & 102	BIO 223	BIOL 213 & 214	BIOL 203	BIOL 103	BIOL 121	LFSC/LFSL 111 or 211
Human Physiology w/lab	PHSL 210 & 211	PX 315	LIFS 241 & 241L	ANP 201	BIO 224	BIOL 340	BIOL 204	BIOL 104	BIOL 122	LFSC/LFSL 112 or 212
Physics I w/lab	PHYCS 110 or 120	PH 107 or 201	PHYS 105 & 105L	PHY 101	PHY 210	PHYS or 220	PHYS 218 or 220	PHYS 150	PHYS 175	PHYS/PHYL 105
Medical Terminology	CC 102 or NUR 101	✉	LAT 216	HHS 101	FNS 110	✉	HSCI 131	✉	HP 115	HIMT 110
	✉ CLAS C209 Medical Terminology is available through IU correspondence course work									
Business Electives	Students must complete six credits of business courses. Options include, but are not limited to, Intro to Business, Personal Finance, Accounting, and Business Management. Please check with advisor for other options. NOTE: Additional health care <u>management</u> or <u>administration</u> related courses taught by other departments can be taken or accepted upon administrative approval; email askhpp@iupui.edu or call (317) 278-4752 for more details.									

BACHELOR OF SCIENCE IN RADIATION THERAPY

The following is a suggested two-year plan for completing the prerequisites. This list is *only* for students who are not Registered Radiographer. Variations of this schedule can be made.

Please check with your advisor to be sure all admission requirements are being met.

	FALL	SPRING
FIRST YEAR	English Composition 1 3cr Humanities Elective 3cr Algebra and Trig. 1 or Precalculus 3cr Human Anatomy 4-5cr Total 13-14cr	Public Speaking or Interpersonal Comm. 3cr Algebra and Trig. 2 3cr Introductory Psychology 3cr Human Physiology 4-5cr Total 13-14cr
NOTE: At this point, student who have a minimum 2.50 cumulative GPA and minimum 2.50 GPA in stated prerequisites may be eligible to submit an application for admission prior to the December 1 st deadline.		
SECOND YEAR	English Composition 2 3cr General Physics 1 4-5cr Intro to Computers 3cr *Business Elective 3cr Total 13-14cr	*Business Elective 3cr Social/Behavioral Sci. Elective 3cr Medical Terminology 1-2cr Statistics 3cr Electives 1-2cr Total 12-13cr Cumulative Total 50cr
NOTE: At this point, students accepted into the professional program must have completed a minimum of 50 credit hours including all stated program prerequisites and have a minimum 2.50 cumulative and 2.50 prerequisite GPA prior to the program's Summer II starting date.		

***BUSINESS ELECTIVES**

Students must complete six credits of business courses. Any business course is acceptable, including but not limited to, BUS X100 (Intro to Business), BUS F260 (Personal Finance), BUS K201 (Computer in Business), and BUS X204 (Business Communications). Please check with advisor for other options.

A BRIEF SUMMARY OF SCHOOL AND PROGRAM ADMISSION REQUIREMENTS

For a complete list, see the School of Medicine Health Professions Programs section of the IUPUI Bulletin. Completion of requirements does not guarantee admission into the program. Competitive grade point averages are generally higher than the stated minimums.

- Minimum Grade Point Averages needed 2.50 Cumulative; 2.30 Math/Sci Prereq; & 2.50 Prereq Courses
- Minimum grade in stated math & science prerequisite course C (2.00)
- Interview required..... Yes
- Observe in a Radiation Oncology facility Prior to Interview; 8.0 hr min.
- Additional Requirements..... Clinical Observation Form
- Application Deadline December 1

For program information, please contact Donna Dunn, Radiation Therapy Program Director at (317) 274-1302, Cancer Care Pavillion, RT 055B or e-mail: dodunn@iupui.edu. For advising assistance, please contact Health Professions Programs Office at (317) 278-4752, Medical Science Room 259 C/D, or askhpp@iupui.edu. You can also visit us online at <http://medicine.iu.edu/hpp/>.

THIS SHEET IS FOR ADVISING PURPOSES ONLY. PLEASE REFER TO SCHOOL OF MEDICINE HEALTH PROFESSIONS PROGRAMS SECTION OF THE IUPUI BULLETIN FOR ALL PROGRAM REQUIREMENTS.

Program Admission Information Sheet – 2009

Program: RADIATION THERAPY, B.S.

Revised 05/09

<p>Application Deadline:</p>	<p>December 1</p>
<p>Admission Criteria: Factors used in determining the rank order that are not part of the published criteria that might have academic advising implications. (e.g., weighted components, nature of electives, residency preference, etc.)</p>	<p>Non-Radiographer selection is based upon: Educational Performance 58% of admission index, (Prerequisite courses GPA-47%, Math/Science GPA-11%) Interview 34% (may be granted based on 2 times class size), Indiana resident 8%</p> <p>Radiographer selection is based upon: Educational performance 58% of admission index, (Prerequisite courses GPA-25%, Math/Science GPA-11%, Radiography GPA-22%) Interview 34% (may be granted based on 2 times the class size), Indiana resident 8%</p>
<p>Component GPA (if used): Explain what is included (excluded). Please be specific.</p>	<p>M/S and Prerequisite courses GPA includes Algebra/Trig or Pre-calculus, Physics, Anatomy, & Physiology, and Statistics (<i>new for 2010</i>). The points are assigned on a graduated GPA scale based upon the credit hours completed (5, 10, 15, 20 or more credit hours)</p> <p>Remedial courses are NOT utilized in the cumulative GPA of prerequisite courses.</p>
<p>Interview When is the interview conducted? How long is the interview? How many interviewers? What is the make-up of the interview team?</p> <p>Briefly describe the interview.</p> <p>What suggestions do you have to help applicants prepare?</p> <p>Date by which an applicant should contact the program if he/she has not heard from the program about an interview date or that he/she is not qualified.</p> <p>Date by which admission decisions are made (hopefully).</p>	<p>Early February Interview lasts 1 to 1½ hours. 4+ The interview team is composed of the medical director, program director, clinical coordinator, and a clinical supervisor from each of the clinical sites.</p> <p>If there are a high number of applicants, the Admissions Committee may limit the number of interviews to 2X the class size. The categories used to evaluate the applicants include interest and evidence of commitment (why they want to be a radiation therapist and relate it to observation), ability to communicate, and professional appearance.</p> <p>After completing the observation experience, the candidate should write down the skills, patient/therapist relationship, treatment observed, and equipment used. Applicants must observe before applying. Observation will not be offered at IU Radiation Oncology Dept. 12/1-2/1.</p> <p>January 15th</p> <p>March 10th</p>

Program Fact Sheet – 2009

Program: **RADIATION THERAPY, B.S.**

Revised 05/09

<p>Professional Curriculum: Describe the nature of the professional program. How intense is it? Are there any unique characteristics or demands?</p>	<p>For the non-radiographer, the program begins in Summer II with continuous enrollment for 22½ months. For the radiographer, the program begins in Fall semester with continuous enrollment for 20 months. Students are in the clinic or the classroom from 8AM to 4:30PM Monday – Friday. The program requires evening study. The students rotate through clinical education sites throughout central Indiana for their clinical practicums.</p>									
<p>Credentials: What is the credential required to practice? Are there specialty credentials? What is the procedure for obtaining the necessary credentials?</p>	<p>Licensure of radiation therapists is required in Indiana. Credentials are required in some other states. A specialty credential in radiation dosimetry is the only specialty credential existing, although others are now being considered by the American Registry of Radiologic Technologists. To obtain a national credential, R.T. (T) (AART) one must successfully complete an accredited recognized radiation therapy program and pass a national exam administered by the American Registry of Radiologic Technologists.</p>									
<p>Competitiveness: How competitive is admission to the program? What changes do you foresee in the next year? Two years?</p>	<p>The program can admit twelve non-radiographers per class. None.</p>									
<p>Placement Statistics: In Indiana? Outside Indiana?</p>	<p>Outlook for employment is improving. May '08 graduates: 10 of 13 employed in Indiana, 1 in Illinois, 1 in Michigan, and 1 in Ohio.</p>									
<p>Salary Range: Entry level? Five years of experience?</p>	<table style="width: 100%; border: none;"> <tr> <td style="width: 30%;"></td> <td style="width: 35%; text-align: center;">Indiana</td> <td style="width: 35%; text-align: center;">National</td> </tr> <tr> <td></td> <td style="text-align: center;">\$45,000 – 58,000</td> <td style="text-align: center;">\$43,000 – 68,000</td> </tr> <tr> <td></td> <td style="text-align: center;">\$50,000 – 75,000</td> <td style="text-align: center;">\$48,000 – 88,000</td> </tr> </table>		Indiana	National		\$45,000 – 58,000	\$43,000 – 68,000		\$50,000 – 75,000	\$48,000 – 88,000
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