RADIOLOGIC SCIENCES (BS), BRIDGE PROGRAM

Degree Requirements

The Department of Radiologic Sciences offers Registered Radiographers or graduates of JRCERT accredited college-based radiography programs (ARRT certified) an option to earn a Bachelor of Science in Radiologic Sciences.

This Bridge Bachelor of Science program is designed for.

- Registered Radiographers who do not have a baccalaureate degree.
- Registered Radiographers who have a baccalaureate degree in a major other than Radiologic Sciences, but choose to seek a second baccalaureate degree in Radiologic Sciences.

Registered Radiographers wishing to complete a bachelor's degree in Radiologic Sciences are responsible for completing all requirements from the first and second year of the pre-professional component.

The professional component consists of 1 semester of a bridge course (Summer) and 3 semesters (Fall, Spring, and Summer) of didactic (classroom) and clinical study in Radiologic Sciences. Advanced modalities offered include Mammography, Computed Tomography (CT), Magnetic Resonance Imaging (MRI), Vascular Radiography, Radiology Administration, Ultrasound, and Radiation Therapy.

Upon successful completion of the bridge course, the Radiologic Sciences advisor will request for 38 hours of alternative credit (i.e. credit from the first professional year of the Radiologic Sciences program) to be added to the students' Degree Audit.

Students will choose one of three tracks (4 options) for the Second Professional Year.

- Track 1: Option 1 Two Advanced Modalities (CT, MRI, Mammography, Vascular Radiography)
- Track 1: Option 2 One Advanced Modality (CT, MRI, Mammography, Vascular Radiography) and Radiology Administration
- · Track 2: Ultrasound
- Track 3: Radiation Therapy

Track 1 : Option 1: Advanced Modalities (CT, MRI, Mammography, Vascular Radiography, Radiology Administration)

Choose two advanced imaging modalities. Modalities require two (2) days of clinic and one (1) hour of classroom lecture per week for each modality. Each modality is taught over three semesters (Fall, Spring, and Summer) for a total of 6 semester hours per modality and 6 semester hours of clinic per modality. Advanced modalities include mammography, magnetic resonance imaging (MRI), vascular radiography, or computed tomography (CT).

Professional Component Hours

Bridge Course - 6 semester hours Second Professional Year - 26 semester hours

Certification

Students completing didactic and clinical requirements in this track will be eligible to apply for certification through the American Registry of Radiologic Technologists (ARRT) in radiography and the advanced modality studied.

Course	Title	Hours
First Year		
Summer		
RAD 491	Prof. Radiological Practice	6
	Hours	6
Second Year		
Fall		
RAD 475	Advanced Modality Clinical A	2
RAD 476	Advanced Modality Clinical B	2
RAD 477	Computed Tomography I	2
or RAD 480	or Mammography I - W	
or RAD 483	or Magnetic Resonance Imaging I	
or RAD 486	or Vascular Radiography - W	
RAD 480	Mammography I - W	2
or RAD 477 or RAD 483	or Computed Tomography I or Magnetic Resonance Imaging I	
or RAD 486	or Vascular Radiography - W	
0.1.0.0	Hours	8
Spring	nouis	ŭ
RAD 496	Radiologic Sci Research I-W	1
RAD 475	Advanced Modality Clinical A	2
RAD 476	Advanced Modality Clinical B	2
RAD 478	Computed Tomography II-W	2
or RAD 481	or Mammography II	
or RAD 484	or Magnetic Reson Imaging II - W	
or RAD 487	or Vascular Radiography II	
RAD 481	Mammography II	2
or RAD 478	or Computed Tomography II-W	
or RAD 484 or RAD 487	or Magnetic Reson Imaging II - W or Vascular Radiography II	
011170 401	Hours	9
Summer	riouis	,
RAD 497	Rad Science Research II	1
RAD 475	Advanced Modality Clinical A	2
RAD 476	Advanced Modality Clinical B	2
RAD 479	Computed Tomography III	2
or RAD 482	or Mammography III	-
or RAD 485	or Magnetic Resonance Imaging III	
or RAD 488	or Vascular Radiography III	
RAD 482	Mammography III	2
or RAD 479	or Computed Tomography III	
or RAD 485	or Magnetic Resonance Imaging III	
or RAD 488	or Vascular Radiography III	
	Hours	9
	Total Hours	32

Track 1: Option 2 One Advanced Modality (CT, MRI, Mammography, Vascular Radiography) and Radiology Administration

Choose one advanced imaging modality AND radiology administration. One modality requires two (2) days of clinic and one (1) hour of classroom lecture per week for the modality. The modality is taught over three semesters (Fall, Spring, and Summer) for a total of 6 semester hours and 6 semester hours of clinic. Advanced modalities include mammography, magnetic resonance imaging (MRI), vascular radiography, or computed tomography (CT). Radiology Administration is taught over three semesters (Fall, Spring and Summer). Radiology Administration will require a total of 13 semester hours, with no clinical assignments other than a preceptorship that is required in Summer.

Professional Component Hours
Bridge Course - 6 semester hours
Second Professional Year - 27 semester hours

Certification

Students completing didactic and clinical requirements in this track will be eligible to apply for certification through the American Registry of Radiologic Technologists (ARRT) in radiography and the advanced modality studied (excluding radiology administration).

Course Title		Hours
First Year		
Summer		
RAD 491	Prof. Radiological Practice	6
	Hours	6
Second Year		
Fall		
RAD 475	Advanced Modality Clinical A	2
RAD 430	Healthcare Communication	3
RAD 432	Healthcare Human Resource Mgmt	3
RAD 477	Computed Tomography I	2
or RAD 480	or Mammography I - W	
or RAD 483	or Magnetic Resonance Imaging I	
or RAD 486	or Vascular Radiography - W	
	Hours	10
Spring		
RAD 496	Radiologic Sci Research I-W	1
RAD 475	Advanced Modality Clinical A	2
RAD 433	Health Care Financial Mgmt	3
RAD 435	Health Care Operations Mgt - W	3
RAD 478	Computed Tomography II-W	2
or RAD 481	or Mammography II	
or RAD 484	or Magnetic Reson Imaging II - W	
or RAD 487	or Vascular Radiography II	
_	Hours	11
Summer		
RAD 497	Rad Science Research II	1
RAD 475	Advanced Modality Clinical A	2
RAD 440	Radiology Management Preceptor	1
RAD 479	Computed Tomography III	2
or RAD 482	or Mammography III	
or RAD 485	or Magnetic Resonance Imaging III	
or RAD 488	or Vascular Radiography III	
	Hours	6
	Total Hours	33

Track 2: Ultrasound Only

Students will study ultrasound curriculum only. Ultrasound is taught over 3 semesters (Fall, Spring, and Summer) of didactic (classroom) and clinical study in Radiologic Sciences. Classes and clinical assignments are scheduled Monday – Friday throughout the program.

Professional Component Hours
Bridge Course - 6 semester hours
Second Professional Year - 36 semester hours

Certification

Students who choose this track will **not** be eligible to seek ARRT certification in radiography, but **will** be eligible to apply for eligible to apply for ARRT and American Registry of Diagnostic Medical

Sonographers (ARDMS) certification as an ultrasonographer upon completion of didactic and clinical requirements.

Course	Title	Hours
First Year		
Summer		
RAD 491	Prof. Radiological Practice	6
	Hours	6
Second Year		
Fall		
RAD 417	Ultrasound Anatomy &Scanning-W	4
RAD 421	Ultras Physics-Instrumentation	3
RAD 423	Ultrasound Clinical Educ I	6
	Hours	13
Spring		
RAD 418	Ultras Anat-Scan Tech-OB-GYN	3
RAD 424	Ultrasound Clinical Educ II	6
RAD 459	Superficial Structures & Neonatal Scanning	3
RAD 496	Radiologic Sci Research I-W	1
	Hours	13
Summer		
RAD 425	Ultrasound Clinical Educ III	6
RAD 427	Procedural Guidelines in Ultra	3
RAD 497	Rad Science Research II	1
	Hours	10
	Total Hours	42

Track 3: Radiation Therapy Only

Students will study radiation therapy curriculum only. Radiation Therapy is taught over 3 semesters (Fall, Spring, and Summer) of didactic (classroom) and clinical study in Radiologic Sciences. Classes and clinical assignments are scheduled Monday – Friday throughout the program.

Professional Component Hours
Bridge Course - 6 semester hours
Second Professional Year - 42 semester hours

Certification

Students who choose this track will **not** be eligible to seek ARRT certification in radiography, but **will** be eligible to apply for ARRT certification in radiation therapy upon completion of didactic and clinical requirements.

Course	Title	Hours
First Year		
Summer		
RAD 491	Prof. Radiological Practice	6
	Hours	6
Second Year		
Fall		
RAD 441	Clinical Education I	5
RAD 446	Orientation to Oncology - W	3
RAD 448	Radiation Therapy Physics	3
RAD 450	Patient Care in Oncology	1
RAD 452	Prin Pract of Rad Oncology I	3
	Hours	15
Spring		
RAD 442	Clinical Education II	6
RAD 453	Prin Prac of Rad Oncology II	3

RAD 455	Dosimetry and Tx Planning I	3	LG 102	Introductory Latin II
RAD 458 RAD 496	Cancer Mgt in Oncology - W Radiologic Sci Research I-W	3	LG 111	Introductory French I
TAD 490	Hours	16	LG 112	Introductory French II
Summer			LG 121	Introductory Chinese I
RAD 443	Clinical Education III	7	LG 122	Introductory Chinese II
RAD 454	Quality Mgt In Rad Oncology	1	LG 131	Introductory Spanish I
RAD 456	Dosimetry and Tx Planning II	2	LG 132	Introductory Spanish II
RAD 497	Rad Science Research II	1	LG 141	Intro Classical Greek I
	Hours	11	LG 142	Intro Classical Greek II
	Total Hours	48	LG 151	Introductory German I
General Edu	ıcation Requirements		LG 152	Introductory German II
Code	Title	Hours	LG 153	Accelerated Intro German
General Educat	tion Requirements		LG 171	Introductory Russian I
Area 1- Written			LG 172	Introductory Russian II
A. Complete th			LG 173	Accelerated Intro Russian
EH 101	English Composition I	3	LG 201	Intermediate Latin I
B:Complete the	,		LG 202	Intermediate Latin II
EH 102	English Composition II	3	LG 211	Intermediate French I
	uities & Fine Arts		LG 212	Intermediate French II
A. Complete th			LG 213	Accelerated Inter French - H
CA 110	Public Speaking	3	LG 221	Intermediate Chinese I
	of the following:	3	LG 222	Intermediate Chinese II
EH 215	Brit Lit before 1785		LG 231	Intermediate Spanish I
EH 216	Brit Lit after 1785		LG 232	Intermediate Spanish II
EH 225	Am Lit before 1865		LG 234	Inter Spanish Accel -H
EH 226	Am Lit after 1865		LG 241	Interm Classical Greek I
EH 235	World Lit before 1650		LG 242	Interm Classical Greek II
EH 236	World Lit after 1650		LG 251	Intermediate German I
	of the following:	3	LG 252	Intermediate German II
ARH 100	Survey of Art		LG 271	Intermediate Russian I
ARH 103	Art History I		LG 272	Intermediate Russian II
ARH 123	Art History II		LG 273	Intensive Second Year Russian
ARS 101	Art Appreciation		LGS 101	Introductory Japanese I
DRA 110	Introduction to Theatre		LGS 102	Introductory Japanese II
MUL 101	Introduction to Music		LGS 106	Introductory Arabic I
	hours from the following:	3	LGS 107	Introductory Arabic II
AFR 101	Intro to African Amer Studies	J	LGS 110	Intro American Sign Language I
ARH 100	Survey of Art		LGS 111	Intro American Sign Lang II
ARH 100	Art History I		LGS 171	Introductory Korean I
ARH 103	Art History II		LGS 172	Introductory Korean II
ARH 203	Survey of Non-Western Art		LGS 201	Intermediate Japanese I
ARH 203	Survey of Non-Western Art		LGS 202	Intermediate Japanese II
ARS 101	Art Appreciation		LGS 206	Intermediate Arabic I
CLA 110	Intro Anc Greek Roman Culture		LGS 207	Intermediate Arabic II
DRA 110	Introduction to Theatre		LGS 210	Intermediate ASL I
EH 215	Brit Lit before 1785		LGS 211	Intermediate ASL II
EH 216	Brit Lit after 1785		MUL 101	Introduction to Music
EH 216	Am Lit before 1865		PHL 110	Introduction to Philosophy
	Am Lit before 1865 Am Lit after 1865		PHL 120	Critical Thinking
EH 226 EH 235	World Lit before 1650		PHL 121	Introduction to Logic
	World Lit before 1650		PHL 131	Introduction to Ethics
EH 236			PHL 231	Social Ethics
LG 101	Introductory Latin I			

Radiologic Sciences (BS), Bridge Program

DIII 240	Wastern Philosophy Classical	
PHL 240	Western Philosophy: Classical	
REL 100	Intro to the Study of Religion	
REL 200	Old Testament/Hebrew Bible	
REL 201	Survey of the New Testament	
	Sciences & Mathmatics	2
	rs from the following:	3
MA 112	Precalculus Algebra	
MA 113	Precalculus Trigonometry	
MA 115	Precal Algebra-Trigonometry	
MA 120	Calculus and Its Applications	
MA 125	Calculus I	
MA 126	Calculus II	
MA 227	Calculus III	
MA 237	Linear Algebra I	
MA 238	Differential Equations I	
B. Complete the f	-	4
BLY 101 & 1011	Life Science I and Life Science I Laboratory	
or BLY 121	General Biology I	
& 121I	and General Biology I Lab	
C. Select one of t		4
BLY 102	Life Science II	•
& 102L	and Life Science II Lab	
or BLY 122	General Biology II	
& 122L	and General Biology II Laboratory	
CH 101	Survey of Inorg and Org Chem	
& 101L	and Survey Inorg-Org Chem Lab	
CH 131	General Chemistry I	
& 131L	and General Chemistry I Lab	
CH 132	General Chemistry II	
& 132L	and General Chemistry II Lab	
• •	Social & Behavioral Sciences	
A. Complete the f	-	2
PSY 120	Introduction to Psychology	3
B. Select one of t	•	3
HY 101	HY of Western Civilization I	
HY 102	HY of Western Civilization II	
HY 135	US History to 1877	
HY 136	US History since 1877	6
C. Select two of t	•	6
AN 100 AN 101	Intro to Cultural Anthropology	
CA 100	Intro Archaeology-Bio Anthro Intro to Communication	
CA 100 CA 100		
511155	Intro to Communication	
CA 211	Interpersonal Comm Prin of Microeconomics	
ECO 215	Prin of Macroeconomics	
ECO 216		
GEO 114	People, Places, Environment	
GEO 115	World Regional Geography	
GS 101	Intro to Gender Studies	
HY 101	HY of Western Civilization I	
LIV 102	LIV of Wootern Civilization !!	
HY 102 HY 135	HY of Western Civilization II US History to 1877	

Total Hours		56-57	
ST 305	Applied Stat Health Sciences		
ST 210	Stat Reason and Application		
BUS 245	Data Analytics I		
C. Select one of t	3		
PH 114 & 114L	Physics with Algebra-Trig I and Alg-Trig Based Physics I Lab		
PH 104 & 104L	Concepts of Physics and Concepts of Physics Laboratory		
B. Select 4-5 from	4-5		
BMD 252	Human Anatomy & Physiology II	4	
BMD 251	Human Anatomy & Physiology I	4	
A. Complete the f	following:		
Area V - Pre-Prof	essional Required Courses		
SY 112	Social Problems		
SY 109	Introductory Sociology		
PSY 250	Life Span Development		
PSC 130	Intro to US Government		
NAS 101	Intro Native American Studies		
IST 201	Seasons of Life		
IS 100	Global Issues		
HY 136	US History since 1877		

Footnote

All undergraduates must complete two designated writing credit (W) courses, at least one of which must be in the student's major or minor.

Student must complete a 6 credit hour sequence either in literature (Area II- Eh 215 & EH 216, EH 225 & EH 226, or EH 235 & EH 236) or history (Area IV - HY 101 & HY 102 or HY 135 & HY 136)