WASHTENAW COMMUNITY COLLEGE

PROGRAM ASSESSMENT PLAN CHANGE FORM

	AM -5	
Program Code: CPMRIP	Program Title: Magnetic Resonance Imaging	Effective Term: Fall 2022

List the outcome(s) to be revised, and identify changes (add rows as needed):

Learning outcomes to be assessed	Assessment tool	When assessment will take place	Course/other populations	Number of students to be assessed
1. Apply the theoretical and practical principles of magnetic resonance imaging (MRI) by passing the ARRT post-primary certification exam within one year of graduation.	1. ARRT exam (national certification exam)	After graduation; Spring/Summer 2024	All graduates	All program students
2. Demonstrate clinical competency in all mandatory and elective MRI procedures as required by the ARRT.	 Audit of the ARRT application for the MRI certification exam. ARRT audit of Magnetic Resonance Imaging (MRI) certification exam 	At completion of program; Spring/Summer 2024	All program students	All program students

Scoring and analysis of assessment:

1. Indicate how the above assessment(s) will be scored and evaluated (e.g. departmentally-developed rubric, answer key, checklist, other). Please attach rubric if available.

Pass rate from the ARRT will be evaluated. The clinical audit for the MRI application will be used.

2. Indicate the standard of success to be used for this assessment:

90% of graduates will pass the ARRT magnetic resonance imaging exam within one year of graduation.

100% of the students applying to take the ARRT MRI registry exam will have completed all mandatory and elective MRI procedures.

3. Indicate who will score and analyze the data:

Departmental faculty

Signatures:

Reviewer	Print Name	Signature	Date
Initiator	Cathy Blaesing	Catherine M. Blaesing	1/18/2022

WASHTENAW COMMUNITY COLLEGE

PROGRAM ASSESSMENT PLAN CHANGE FORM

Department Chair	Kristina Sprague	Kalenson and	1/19/22
Division Dean/Administrator	Shari Lambert	Shari Lee Digitally signed by Shari Lee Lambert, DNP, RN Date: 2022.01.19 15:08:56 -05'00'	
or by	e-mail to curriculum	ice of Curriculum & Assessment, .assessment@wccnet.edu	
Once reviewed by th	e appropriate faculty comm	ittees we will secure the appropriate signatur	85.
Curriculum Committee Chair	Randy Van Wagnen	RVmm	2-11-22
Assessment Committee Chair	SHAW DEROW	and a	9.11.33
Do not write in shade	ed area. Entered in: Banner	C&A Database Log File	

Reviewed by C&A Committees 2/3/22

PROGRAM PROPOSAL FORM

- Preliminary Approval Check here when using this form for preliminary approval of a program proposal, and respond to the items in general terms.
- Final Approval Check here when completing this form after the Vice President for Instruction has given preliminary approval to a program proposal. For final approval, complete information must be provided for each item.

Program Name:	CPMRI Magnetic Resonance Imaging		
Division and Department:	Math, Science & Health: Allied Health Dept.		
Type of Award:	□ AA □ AS □ AAS □ Cert. □ Adv. Cert. ⊠ Post-Assoc. Cert. □ Cert. of Comp.		
Effective Term/Year:	Fall 2015	int (Chydrot	
Initiator:	Connie Foster		
Program Features Program's purpose and its goals.	The purpose of the program is to offer a 12-month post-associate certificate program Magnetic Resonance Imaging (MRI). Goals:	m in	
Criteria for entry into the program, along with projected enrollment figures.	 Offer a series of didactic and clinical courses that will prepare students for the porregistry certification examination administered by the American Registry of Radiolog Technologists (ARRT). Prepare students entry-level positions in Magnetic Resonance Imaging (MRI). 		
	 Criteria for Admission into the Magnetic Resonance Imaging (MRI) program: Registered radiologic technologist with primary certification in Radiograph Sonography, Nuclear Medicine or Radiation Therapy Graduate of a JRCERT accredited program Minimum GPA of 3.0 Current CPR certification 	у,	
Connection to other WCC programs, as well as accrediting agencies or professional organizations.	 Completed college physical form by licensed physician Crime-free criminal background check Complete RAD 223 Sectional Anatomy or equivalent course with a grade of better 	of B+ or	
Special features of the program.	The projected enrollment is 12 students per year.		
	The Magnetic Resonance Imaging (MRI) program will provide graduates of the Was Community College Radiography Program with an opportunity to obtain advanced certification in MRI.	shtenaw	
	Registered radiological technologists who complete the MRI program will also satisf ARRT continuing education requirements for a 2-year period.	-	
Need Need for the program with evidence to support the stated need.	The career outlook for MRI technicians is excellent, with demand increasing at a rate than average. The U.S. Bureau of Labor Statistics (BLS) predicted a 17% ris opportunities for MRI technicians and other radiologic technicians and technolog between 2008 and 2018 (www.bls.gov). As MRIs become cheaper, they will becomore common component of treatment for various medical conditions and will al applied to a greater variety of conditions. A growing and aging population will al require an increasing use of this procedure.	e in job gists ome a Iso be	
	Hospitals, private physicians and diagnostic imaging centers employ most MRI technicians. The BLS reported the mean salary for medical technicians at \$54,180 and estimated that the middle 50% of radiologic technologists earned between \$4 and \$64,070 per year.	3,510	
fice of Curriculum & Assessment	Program Proposal Form 8	-2005	

Program Outcomes/Assessment	Outcomes		Assessment me	ethod
State the knowledge to be gained, skills to	1. Apply the theoretical and pra magnetic resonance imaging		1. ARRT exar exam)	n (national certification
be learned, and attitudes to be developed by students in the program.	the ARRT post-primary cert within 1-year of graduation.		Chang	
Include assessment methods that will be used to determine the effectiveness of the program.	2. Demonstrate clinical compe mandatory and elective mag imaging (MRI) procedures a ARRT.	netic resonance		t for Magnetic Resonance I) certification exam
Curriculum	IT-11 C			
Curriculum	Fall Semester: #	2 and the		
List the courses in the program as they should appear in the catalog. List minimum credits	MRI 101 Safety (30 contact hrs/	2 credits)		
appear in the catalog. That minimum creates	MRI 110 Procedures I (45 contact in MRI 120 Procedures I (45 contra			
required. Include any notes that should appear below the course list.	MRI 125 Clinical Education I (2		$r_0 = 360$ alinias	hen / de anadita
appear below the course list.	Winter Semester: 10	24 IIIS/ WEEK X 15 WEE	ks – 500 cimica	rins/ # credits
	MRI 130 Physics II (45 contact	hours /3 aredite)		
	· ·		`	
	MRI 135 Quality Assurance (15 contact hrs/1 credits) MRI 140 Procedures II (45 contact hours/3 credits)			
	MRI 140 Procedures II (45 contact hours/3 credits) MRI 145 Clinical Education II (24 hrs/week x 15 weeks = 360 clinical hrs/3 credits			
	Spring/Summer:			
	MRI 160 Advanced Imaging Procedures (45 contract hours/3 credits)			
	MRI 162 Pulsed Sequence, Imaging Options, & Parameters (30 contact hrs/2 credits			
	MRI 165 Clinical Education III (32 hrs/week x 12 weeks = 384 clinical hrs/3 credits			
	RAD 223 Sectional Anatomy (30) contact hrs/2 credit	s)	2 au dets
Budget		START-UP C	OSTS	ONGOING COSTS
			0313	ondonia dooro
Specify program costs in the following	Faculty	\$.	0313	5000.00
Specify program costs in the following areas, per academic year:	Faculty Training/Travel	\$		n
Specify program costs in the following	The second se	\$ 		n
Specify program costs in the following	Training/Travel	\$ 		n
Specify program costs in the following	Training/Travel Materials/Resources	\$ 		n
Specify program costs in the following	Training/Travel Materials/Resources Facilities/Equipment	\$ 		<u>5000.00</u>
Specify program costs in the following	Training/Travel Materials/Resources Facilities/Equipment Other (Program Coordinator) TOTALS: Part time faculty will be used to	• • • • teach the didactic co	•	5000.00° \$ 0 5000.00
Specify program costs in the following	Training/Travel Materials/Resources Facilities/Equipment Other (Program Coordinator) TOTALS: Part time faculty will be used to clinical courses (non-teaching r	\$ 0 • teach the didactic co ate \$33.56/hr).	ourses (teaching	5000.00
Specify program costs in the following	Training/Travel Materials/Resources Facilities/Equipment Other (Program Coordinator) TOTALS: Part time faculty will be used to clinical courses (non-teaching r A registered Magnetic Resonan)	\$ 0 • teach the didactic co ate \$33.56/hr). ce Imaging (MRI) te	ourses (teaching chnologist will	5000.00
Specify program costs in the following areas, per academic year:	Training/Travel Materials/Resources Facilities/Equipment Other (Program Coordinator) TOTALS: Part time faculty will be used to clinical courses (non-teaching r A registered Magnetic Resonan teaching rate \$33.56/hr) to serve	\$ 0 • teach the didactic co ate \$33.56/hr). cc Imaging (MRI) te- re as the program co	ourses (teaching chnologist will ordinator.	5000.00 g rate: \$54.87/hr) and be paid 3-hr/week (non-
Specify program costs in the following areas, per academic year: Program Description for Catalog and	Training/Travel Materials/Resources Facilities/Equipment Other (Program Coordinator) TOTALS: Part time faculty will be used to clinical courses (non-teaching r A registered Magnetic Resonan teaching rate \$33.56/hr) to serv. The Magnetic Resonance Imag program that is designed for registered for registeree for regi	\$ 0 • teach the didactic co ate \$33.56/hr). cc Imaging (MRI) te ve as the program co ing (MRI) Program i gistered radiologic te or ARDMS), and nu	ourses (teaching chnologist will ordinator. s a post-associa chnologists (Al uclear medicine	soo o. oo
Specify program costs in the following areas, per academic year: Program Description for Catalog and	Training/Travel Materials/Resources Facilities/Equipment Other (Program Coordinator) TOTALS: Part time faculty will be used to clinical courses (non-teaching r A registered Magnetic Resonan teaching rate \$33.56/hr) to serv The Magnetic Resonance Imag program that is designed for registered (ARRT), Sonographers (ARRT NMTCB). This program offers	\$ 0 • teach the didactic co ate \$33.56/hr). cc Imaging (MRI) tea re as the program co- ing (MRI) Program i gistered radiologic tea or ARDMS), and nu the didactic and clin	• ourses (teaching chnologist will ordinator. s a post-associa chnologists (Al oclear medicine ical experience	5000.00
Specify program costs in the following areas, per academic year: Program Description for Catalog and	Training/Travel Materials/Resources Facilities/Equipment Other (Program Coordinator) TOTALS: Part time faculty will be used to clinical courses (non-teaching r A registered Magnetic Resonant teaching rate \$33.56/hr) to serve The Magnetic Resonance Imag program that is designed for registered for registereed for registered for registereed for r	\$ 0 • teach the didactic co ate \$33.56/hr). cc Imaging (MRI) tea re as the program con ing (MRI) Program i gistered radiologic te or ARDMS), and nu the didactic and clin attitudes that are req	• ourses (teaching chnologist will ordinator. s a post-associa chnologists (Al iclear medicine ical experience uired to becom	5000.00
Specify program costs in the following areas, per academic year: Program Description for Catalog and	Training/Travel Materials/Resources Facilities/Equipment Other (Program Coordinator) TOTALS: Part time faculty will be used to clinical courses (non-teaching rate clinical courses (non-teaching rate sonance Resonance Imag program that is designed for regoram that is program offers with the knowledge, skills, and resonance imaging technologist Society of Radiologic Technologist	\$ 0 • teach the didactic co ate \$33.56/hr). cc Imaging (MRI) te- ve as the program co- ing (MRI) Program i gistered radiologic te or ARDMS), and nu the didactic and clin attitudes that are req The curriculum is pgy (ASRT) magnetic	ourses (teaching chnologist will ordinator. s a post-associa chnologists (Al iclear medicine ical experience uired to becom based on the re resonance ima	5000.00 5000.00
Specify program costs in the following	Training/Travel Materials/Resources Facilities/Equipment Other (Program Coordinator) TOTALS: Part time faculty will be used to clinical courses (non-teaching rate clinical courses (non-teaching rate sonance Resonance Imager program that is designed for registered Magnetic Resonance Imager (ARRT), Sonographers (ARRT NMTCB). This program offers with the knowledge, skills, and resonance imaging technologist Society of Radiologic Technologist Society of Radiologic Technologist society of the Magnetic of the Magnetic Resonance imaging technologist Society of the Magnetic Resonance imaging technologist Society of Radiologic Technologist Society of Radiologic Technologist Society of the Magnetic Resonance imaging technologist Society of the Magnetic Resonance imaging technologist Society of Radiologic Technologist Society Socie	\$ 0 • teach the didactic co ate \$33.56/hr). ce Imaging (MRI) te- re as the program co- ing (MRI) Program i gistered radiologic te or ARDMS), and nu the didactic and clin attitudes that are req 	ourses (teaching ordinator. s a post-associa chnologists (Al iclear medicine ical experience uired to becom based on the re resonance ima s are eligible to	5000.00 5000.00
Specify program costs in the following areas, per academic year: Program Description for Catalog and	Training/Travel Materials/Resources Facilities/Equipment Other (Program Coordinator) TOTALS: Part time faculty will be used to clinical courses (non-teaching rate clinical courses (non-teaching rate sonance Resonance Imag program that is designed for regoram that is program offers with the knowledge, skills, and resonance imaging technologist Society of Radiologic Technologist	\$ 0 • teach the didactic co ate \$33.56/hr). ce Imaging (MRI) te- re as the program co- ing (MRI) Program i gistered radiologic te or ARDMS), and nu the didactic and clin attitudes that are req 	ourses (teaching ordinator. s a post-associa chnologists (Al iclear medicine ical experience uired to becom based on the re resonance ima s are eligible to	5000.00 5000.00

Program Information	Accreditation/Licensure – No Accreditation is required at this time.
	Advisors – Connie Foster
	Advisory Committee - TBA
	Admission requirements - See Program Features: Criteria for entry into the program
	Articulation agreements - None
	Continuing eligibility requirements - Pass all first semester courses with a C or better

Assessment plan:

Program outcomes to be assessed	Assessment tool	When assessment will take place	Courses/other populations	Number students to be assessed
Apply the theoretical and practical principles of magnetic resonance imaging (MRI) by passing the ARRT post-primary certification exam within 1-year of graduation.	ARRT exam	After graduation	All graduates	All program students
Demonstrate clinical competency in all mandatory and elective magnetic resonance imaging (MRI) procedures as required by the ARRT.	ARRT application	At completion of program	All program students	All program students

Scoring and analysis plan:

1. Indicate how the above assessment(s) will be scored and evaluated (e.g. departmentally developed rubric, external evaluation, other). Attach the rubric.

Pass rate from the ARRT will be evaluated. The clinical audit for the MRI application will be used.

2. Indicate the standard of success to be used for this assessment.

90% of graduates will pass the ARRT magnetic resonance imaging exam within 1-year of graduation. 100% of the students will complete all mandatory and elective MRI procedures.

- 3. Indicate who will score and analyze the data. Department Faculty
- 4. Explain how and when the assessment results will be used for program improvement. The assessment results will be reviewed by the faculty and clinical instructors to revise and update the MRI curriculum.

I DAW BAY PR	PRINT NAME	SIGNATURE DATE
Department Chair/Area Director	Connie Foster	(pmui Fatter 11/17/14
Dean	Kris Brandemuehl	High GArandennehl 11/17/14
Vice President for Instruction Approved for Development Final Approval	William Abernethy	1/05/15
President	Rose Bellanca	Repellance 2/23/15
Board Approval		3/24/15