I.

CATAL	OG INFORMATION	
A.	Discipline: RADIOLOGIC TE	CHNOLOGY (RADT)
B.	Subject Code and Number: F	RADT M10AL
C.	Course Title: Introduction to F	Radiologic Technology Lab
D.	Credit Course units:	
	Units: 2.5	
	Lecture Hours per we	eek: <u>0</u>
	Lab Hours per week	: 7.5
	Variable Units : No	
E.	Student Learning Hours:	
	Lecture Hours:	
	Classroom hours: 0	- 0
	Laboratory/Activity Hours:	
	Laboratory/Activity H	ours <u>131.25 - 131.25</u>
	Total Combined Hours in a	17.5 week term: <u>131.25 - 131.25</u>
F.	Non-Credit Course hours per	week
G.	May be taken a total of: X	1 2 3 4 time(s) for credit
H.	Is the course co-designated (If YES, designate course Sub	same as) another course: No X Yes
I.	Course Description:	
	department setting in the on- radiography students opportu manipulation, radiation protect	student to participate in a simulated radiography campus Radiography skills lab. Provides inities to work with darkroom procedures, equipment ction procedure, basic radiographic positions and st and abdomen anatomy and procedures.
J.	Entrance Skills	
	*Prerequisite: Admission to the Moorpark	No Yes X Course(s) College Radiography Program, RADT M01A and
	*Corequisite:	No X Yes Course(s)
	Limitation on Enrollment:	No X Yes
	Recommended Preparation:	No X Yes Course(s)
	Other:	No X Yes

K. Other Catalog Information:

(Formerly RADT M10L.)

II. COURSE OBJECTIVES

Upon successful completion of the course, a student will be able to:

	Tradecessial completion of the course, a stadent will be ab	Methods of evaluation will be consistent with, but not limited by, the following types or examples.
1	assemble the Clinical Portfolio for clinical practicum and review student handbook.	Quizzes, exam and clinical evaluation.
2	use film-screen cassettes and automatic film processing.	Quizzes, exams and clinical evaluation.
3	operate radiographic unit and accessories.	Quizzes, exams and clinical evaluation.
4	select the prime factors of mA (milliamps), kVp (kilovolt peak) seconds, and distance on the x-ray console.	Quizzes, exams and clinical evaluation.
5	employ the use of radiation shielding devices for both patient and personnel.	Quizzes, exams and clinical evaluation.
6	describe techniques of radiation protection using parameters of time, distance and shielding.	Quizzes, exams and clinical evaluation.
7	apply radiation protection methods during fluoroscopic procedures.	Quizzes, exams and clinical evaluation.
8	apply radiation protection methods during mobile radiographic procedures.	Quizzes, exams and clinical evaluation.
9	practice, through demonstration, the basic body positions used when positioning patients for radiographic examinations.	Quizzes, exams and clinical evaluation.
10	observe, assist and perform radiographic procedures of the chest including adult, pediatric, geriatric, and trauma.	Quizzes, exams and clinical evaluation.
11	observe, assist and perform radiographic procedures of the abdomen including adult, pediatric, geriatric, and trauma.	Quizzes, exams and clinical evaluation.

12	demonstrate the procedures for gowning and gloving for you or another to maintain a sterile field.	Quizzes, exams and clinical evaluation.
13	recall the procedure for emergencies and incidents at the clinical site.	Quizzes, exams and clinical evaluation.
14	demonstrate the appropriate method for lifting, moving, and transporting patients to and from the medical imaging department.	Quizzes, exams and clinical evaluation.
15	demonstrate basic clerical duties in radiology reception such as process the x-ray requisition, use telephone, intercom and paging systems, archive/retrieve images/film, and PACS (picture archiving and communication system).	Quizzes, exams and clinical evaluation.

III. COURSE CONTENT

Estimated % Topic		Learning Outcomes
Lecture (must tot	al 100%)	
Lab (must total 10	00%)	
6.00%	Prepare clinical portfolio and review clinical requirements	1, 13, 15
25.00%	Introduction to general X-ray equipment, digital, mobile and fluoroscopic	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 14, 15
15.00%	Introduction to darkroom, film processing and digital processing	2, 3, 10, 11, 15
5.00%	Introduction to basic radiation protection	3, 4, 5, 6, 7, 8
5.00%	Orientation to emergency protocol for medical imaging department and hospital rules/regulations	12, 13, 14, 15
10.00%	Orientation to clerical procedures and imaging archives	10, 11, 15
15.00%	Orientation to patient transport, sterile techniques and basic patient positioning	9, 12, 13, 14
5.00%	Introduction to radiographic technique: mAs-time-Kvp-distance	4, 6, 7, 8
7.00%	Chest radiographic procedures	3, 4, 5, 6, 7, 8, 9, 10, 14, 15
7.00%	Abdomen radiographic procedures	2, 3, 4, 5, 6, 7, 8, 9, 11, 14, 15

IV. TYPICAL ASSIGNMENTS

A. Writing assignments

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VI.

ne moorpark	: - RAl	DT M10AL					
	1	keep written clinical daily logs up to date.					
	2 complete written assignments in workbook lab manuals.						
	3	complete all written paperwork needed for each exam.					
B. Appropriate outside assignments							
	Appropriate outside assignments are required. Possible assignments may include, but are not limited to:						
1 review hospital protocols before the start of rotation.							
	2	complete assigned readings from journals and text.					
	3	review patient positioning before the start of rotation.					
C.	C. Critical thinking assignments						
	Critical thinking assignments are required. Possible assignments may include, but are not limited to:						
	1	assess patient condition before start of chest exam to see if any modification is needed.					
	2	assess patient condition before start of abdomen exam to see if any modification is needed.					
	3	appraisal of radiographic image for quality criteria.					
METHO	DS	OF INSTRUCTION					
Method	s of i	instruction may include, but are not limited to:					
1 1		ce Education – When any portion of class contact hours is replaced by ce education delivery mode (Complete DE Addendum, Section XV)					
Le	Lecture/Discussion						
X La	X Laboratory/Activity						
X O	Other (Specify) Job shadowing and practicing positioning at the clinical site.						
O _I	Optional Field Trips						
R	Required Field Trips						
_	ls of	OF EVALUATION evaluation may include, but are not limited to: ay Exam X Classroom X Skill Demonstration Discussion					

Complete at least one clinical competency at the clinical site

Journals

Projects

Reports/Papers/

Participation

Other (specify)

X

REPRESENTATIVE TEXTS AND OTHER COURSE MATERIALS VII.

Problem Solving

Objective Exams

Exam

X

Bontrager, Kenneth, and John Lampignano. Textbook of Radiographic Positioning and Related Anatomy. 8th ed. Mosby, 2014.

Bontrager, Kenneth, and John Lampignano. Workbook for Textbook of Radiographic and Positioning and Relaled Anatomy. 8th ed. Mosby, 2013.

Dutton, Andrea, TerriAnn Linn-Watson, and Lillian Torres. Torres' Patient Care in Imaging Technology. 8th ed. Lippincott, 2013.

VIII.	STUDE	ALT BAA	TEDIAL	C FFFC
VIII.	SIUDE	NINA	IERIAL	O LEES

No [Χ	Yes
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IX. **PARALLEL COURSES**

College	Course Number	Course Title	Units
El Camino College	RT 53A	Introduction to Radiologic Technology Laboratory/Clinic	5.5
Bakersfield College	RADT B1A	Introduction to Radiologic Technology	2
Santa Barbara City College	RT 101	Introduction to Radiography	2-3
Antelope Valley College	RADT 101	Introduction to Radiologic Technology	2

X. **MINIMUM QUALIFICATIONS**

Courses in Disciplines in which Masters Degrees are not expected:	C	ourses i	n Disc	iplines in	which	Masters	Degrees	are no	t expected:
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Any bachelor's degree and two years of professional experience, or any associate degree and six years of professional experience

XI.

years	or professional experience.
ARTIC	CULATION INFORMATION
A.	Title V Course Classification:
	1. This course is designed to be taken either:
	Pass/No Pass only (no letter grade possible); or
	X Letter grade (P/NP possible at student option)
	2. Degree status:
	Either X Associate Degree Applicable; or Non-associate Degree
	Applicable
В.	Moorpark College General Education:
	Do you recommend this course for inclusion on the Associate Degree
	General Education list?
	Yes: No: X If YES, what section(s)?
	A1 - Natural Sciences - Biological Science
	A2 - Natural Sciences - Physical Science
	B1 - Social and Behavioral Sciences - American History/Institutions
	B2 - Social and Behavioral Sciences - Other Social Behavioral Science
	C1 - Humanities - Fine or Performing Arts
	C2 - Humanities - Other Humanities
	D1 - Language and Rationality - English Composition
	D2 - Language and Rationality - Communication and Analytical
	Thinking

Course Outline moorpark - RAD	ΓM10AL
	D. Prerequisite or Corequisite is authorized by legal statute or regulation. Code Section:
X	E. Prerequisite or Corequisite is necessary to protect the students' health and safety.
	F. Computation or communication skill is needed.
	G. Performance courses: Audition, portfolio, tryouts, etc. needed.
Doguisito luo	tification for PADT MO1A
Requisite Jus	tification for RADT M01A A. Sequential course within a discipline.
	B. Standard Prerequisite or Corequisite required by universities.
X	C. Corequisite is linked to companion lecture course.
	D. Prerequisite or Corequisite is authorized by legal statute or regulation. Code Section:
	E. Prerequisite or Corequisite is necessary to protect the students' health and safety.
	F. Computation or communication skill is needed.
	G. Performance courses: Audition, portfolio, tryouts, etc. needed.
and	

XIV. WORKPLACE PREPARATION

Required for career technical courses only. A career technical course/program is one with the primary goal to prepare students for employment immediately upon course/program completion, and/or upgrading employment skills.

Detail how the course meets the Secretary of Labors Commission on the Achievement of Necessary Skills (SCANS) areas. (For a description of the competencies and skills with a listing of what students should be able to do, go to:

http://www.ncrel.org/sdrs/areas/issues/methods/assment/as7scans.htm)

The course will address the SCANS competency areas:

1. Resources: the students will identify weekly learning objectives; devise a plan to allocate adequate study time to learn the weekly objectives; learn to organize the steps involved in radiography procedures; meet assignment deadlines and be

prepared to participate in class discussions.

- 2. Interpersonal: the students will work in collaboration with other students and bring radiographs from the clinical setting and present case studies to strengthen the skills of each member of the class and help gain clinical proficiency; experience the importance of collaboration and of being a team member in the health care field; such collaborative efforts reinforce skills of relating to a diverse population.
- 3. Information: the students will refer to radiographic techniques charts to select the correct amount of radiation for imaging the body part of interest; use computers in the skills lab, which prepares them to evaluate, organize and communicate information in the clinical facility; make use of professional health care and radiography journals to keep abreast of the state of the art in medical imaging and to stay current with continuing education requirements.
- 4. Systems: the students will follow hospital protocol for each exam; identify when a change in protocol is needed and communicate this to the supervising technologist for approval.
- 5. Technology: the students will demonstrate skill when operating radiographic equipment; be able to problem shoot equipment when needed and be proficient when operating hospital RIS (Radiology Information System) and PACS systems.

The course also addresses the SCANS skills and personal qualities:

- 1. Basic Skills: the students will read professional journals and manuals related to new radiographic techniques and equipment.
- 2. Thinking Skills: the students will describe how to alter radiographic procedures for the pediatric, geriatric, and trauma patient; describe how to prioritize radiographic procedures when there are multiple exams ordered.
- Personal Qualities: the students will demonstrate accountability through regular attendance and punctuality in class; demonstrate reliability by completing assignments as instructed and in a timely manner; show respect for each other, others with whom they come in contact, and those in authority.

XV. DISTANCE LEARNING COURSE OUTLINE ADDENDUM

RADT M10AL: Not Applicable

XVI. GENERAL EDUCATION COURSE OUTLINE ADDENDUM

RADT M10AL: Not Applicable

XVII. STUDENT MATERIALS FEE ADDENDUM

Fee Amount: \$36.72(based on current pricing)

This fee is needed to purchase a radiation monitoring device which is needed at all times during clinical hours.

The answers to all five of the following questions must be Yes for a materials fee to be required of students.

<u>Yes</u>	<u>No</u>	
X		Are the materials required in this course?

Course Outline moorpark - RADT M10AL			
	X		Are the materials tangible personal property?
	X		Are the materials owned or controlled by the student?
	X		If the material is solely available from the district (e.g., packet of handouts), does the students cost equal only the districts actual cost?
	X		Does the material have continuing value outside the classroom?
XVIII.	REPEA	TABII	LITY JUSTIFICATION TITLE 5, SECTION 55041
	RADT I	M10AL	.: Not Applicable
XIX. CURRICULUM APPROVAL			
		Cour	se Information: Discipline: RADIOLOGIC TECHNOLOGY (RADT)
			Discipline Code and Number: RADT M10AL
			Course Revision Category: Outline Update
		Cours	se Proposed By: Originating Faculty Robert Darwin 01/28/2014
			Faculty Peer: Guadalupe Aldana 01/28/2014
			Curriculum Rep: Linda Loiselle 01/29/2014
			Department Chair: Guadalupe Aldana 01/28/2014
			Division Dean: Kimberly Hoffmans 01/29/2014
		Appro	oved By: Curriculum Chair: Jerry Mansfield 05/20/2014
			Executive Vice President: Lori Bennett 05/20/2014
			Articulation Officer: Letrisha Mai 04/29/2014
			Librarian: Mary LaBarge 02/05/2014
		Imple	ementation Term and Year: Fall 2014
		Appro	oval Dates: Approved by Moorpark College Curriculum Committee: 05/06/2014
			Approved by Board of Trustees (if applicable):
			Approved by State (if applicable):