

Administrative Master Syllabus

Cover Sheet

<u>Purpose</u>: The Administrative Master Syllabus provides a general course description, defines the required elements of the course, and establishes a faculty-driven foundation for course assessment to ensure continuous improvement in student learning, irrespective of the course timeframe, or mode of course delivery.

Course Title: Principles of Radiographic Imaging I				
Course Prefix and Number: RADR 1213				
THECB Approval Number (10 digit): 5109110000				
Department: Radiologic Technology Division: Nursing and Allied Health				
Course Type: (check only one)				
Academic General Education Course (From ACGM but not a CBC Core Course)				
Academic CBC Core Course				
✓ WECM Course (Special Topics or Unique Needs Course: Y or N ✓)				
Weekly Contact Hours (Lecture – Lab – External): 2 - 1 - 0				
Radiographic image quality and the effects of exposure variables.				
Prerequisites/Co-requisites:				
Prerequisite: RADR 2309 Radiographic Imaging Equipment				
Approval: The contents of this document have been reviewed and are found to be accurate.				
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Prepared by (Content Expert): Jacklynn Valadez Digitally signed by Jacklynn Valadez Date: 2021.11.08 16:51:05 -06'00'				
Reviewed by Director or Coordinator: Virginia Wall Date: 2021.11.18 10:39:00 -06'00'				
Approved by Dean of CTE or NAH or TGE: Loana Hernandez Digitally signed by Loana Hernandez Date: 2022.09.02 09:31:56 -05'00'				



Master Course Syllabus

Course Name: RADR 1213 Principles of Radiographic Imaging I

Course Description: Radiographic image quality and the effects of exposure variables.

Semester Hour Credit: 2

Lecture Hrs. per Week/Lab Hrs. per Week/External Hrs. per Week: 2-1-0

Curriculum Capacity: 21

Face-to-Face Lab 21

Online Lab

Face-to-Face Lecture 21

Online

Virtual Face-to-Face

Interactive video (multi-locations)

Hybrid

Clinical

Recommended enrollment threshold: 5

Face-to-Face Lab 5

Online Lab

Face-to-Face Lecture 5

Online

Virtual Face-to-Face

Interactive video (multi-locations)

Hybrid

Clinical

Textbook and/or other major required readings:

Title: Radiologic Science for Technologist

Author: Stewart C. Bushong

Publisher: Elsevier

Edition: 12th

ISBN: 9780323661348

The Student Learning Outcomes for the course are the same regardless of modality or location.

Course Outcomes (WECM or LDACGM)

- Apply the basic principles of radiographic image acquisition to image quality.
- Analyze the effects of exposure variables upon image quality.

The following general education course competencies (TGE) or Marketable SCAN Skills (CTE/NAH) are addressed in this course: General education course competencies (TGE) or Marketable SCAN Skills (CTE/NAH) assessed are indicated with an asterisk *.

- Analyzes images to determine the use of appropriate imaging parameters.
- Develops, maintains and makes available optimal exposure technique guidelines for all radiographic and fluoroscopic equipment.
- Verifies that exposure indicator data for digital radiographic systems has not been altered or modified and is included in the DICOM header and on images exported to media.
- Performs ongoing quality assurance activities and quality control testing.
- Uses accessory equipment.
- Evaluates images for optimal demonstration of anatomy of interest.
- Evaluates the patient, equipment and procedure to identify variances that might affect the expected outcome.

The following program student learning outcome are assessed for this course:

- 1. Students will produce diagnostic radiographs.
- 2. Students will provide safe, reliable patient care.
- 3. Students practice critical thinking in clinical setting.
- 4. Students utilize critical thinking skills in traumatic situations.

Evaluation Methods:

Unit exams, quizzes, chapter assignments, online learning assignments

Course Grading: Please see individualized instructor policies for course evaluation methods. Students will be assessed on the same measure across each discipline as per CBC guidelines.

Major Course Assignments and/or exams counting for at least 10% of a final course grade:

Comprehensive final
Unit exams

Grade Scale:

A = 100.0 - 91.5 B = 91.4 - 82.5 C = 82.4 - 74.5 F = 74.4 - Below

Course Subject Matter Outline:

Unit 1: The X-Ray Tube Unit 2: X-ray Production Unit 3: X-Ray Emission

Unit4: X-Ray Interaction with Matter

Unit 5: Image Acquisition, Patient-Image Optimization, Medical Image Descriptors

Unit 6: Scatter Radiation

Additional Course Requirements:

Prerequisite: RADR 2309 Radiographic Imaging Equipment

Class Attendance and Classroom Conduct Policies

Attendance Policy: See Radiologic Technology Program Student Handbook.

Telephone Support: Toll Free: 866-722-2838 or Direct Line: 361-354-2508

I.T. Support Blackboard

http://coastalbend.edu/it/

IT Help Desk 1-361-354-2508 helpdesk@coastalbend.edu

Live Chat: Fall/Spring Hours: Monday - Thursday from 8 a.m. to 5 p.m. Summer Hours: Monday – Thursday from 7 a.m. to 6 p.m.

Tutoring Services: Coastal Bend College is committed to the academic success of all students enrolled at the college. A variety of services, including academic support, individual tutoring sessions, group tutoring sessions, and online tutoring, are available to students depending on the availability of tutors for the subject matter requested. All tutoring is provided at no cost to current CBC students who are currently enrolled at CBC. On-demand tutoring services are accessible 24 hours a day, seven days a week through the TutorMe platform, which may be accessed through your Blackboard account. To request a tutor, please complete the online tutor request form found at http://www.coastalbend.edu/tutoring/ to submit your request. If you have any questions about tutoring programs, you can contact to tutoring@coastalbend.edu.

Beeville	Alice	Kingsville	Pleasanton
3800 Charco Road	704 Coyote Trail	1814 Brahma Blvd.	1411 Bensdale
Beeville, TX 78102	Alice, TX 78332	Kingsville, TX	Pleasanton, TX
1-866-722-2838	1-866-891-2981	78363	78064
		1-866-262-1615	1-866-361-4222

Grady C. Hogue Learning Resource Center (Library): Located on the Beeville campus, the operation hours are Monday - Friday from 8:00 a.m. to 5:00 p.m.

(Summer semesters will observe the CBC campus operation hours) For locations and hours of the CBC library in Alice, Kingsville, and Pleasanton sites please visit the library web page link below.

Grady C. Hogue Learning Resource Center (Library): http://lrc.coastalbend.edu/about

Financial Aid: Resources are available for students for financial aid, work study, and veteran benefits. For additional information, visit our website at http://coastalbend.edu/finaid or contact us at 361-354-2238. Office hours: Monday - Friday from 8:00 a.m. to 5:00 p.m.

ADA Statement: No qualified individual with a disability shall, by reason of such disability, be excluded from participation in or be denied the benefits of the services, programs, or activities of the College District, or be subjected to discrimination by the College District. Nor shall the College District exclude or otherwise deny equal services, programs, or activities to an individual because of the known disability of an individual with whom the individual is known to have a relationship or association. 42 U.S.C. 12132; 28 CFR 35.130(g). See at: GA (Legal)

Students with Disabilities: Please notify your instructor of any modification/adaptation you may require to accommodate a disability-related need. You will need to provide documentation to the Director of Accessibility Services so the most appropriate accommodations can be determined. Specialized services are available through the Office of Accessibility Services (OAS) (SSB 4.104, 471-6259). For more information, please email oas@coastalbend.edu.

Scholastic Dishonesty: Each student is charged with notice and knowledge of the contents and provisions of Coastal Bend College's rules and regulations concerning student conduct. All students shall obey the law, show respect for properly constituted authority, and observe correct standards of conduct. Scholastic dishonesty shall constitute a violation of these rules and regulations and is punishable as prescribed by Coastal Bend College Policies FLB (Local) and FM (Local). Scholastic dishonesty shall include, but not be limited to, cheating on a test, plagiarism, and collusion. See at: FLB (Local) and FM (Local).

Use of E-mail for Official Correspondence to Students: All students should be familiar with the college's official email student notification policy. Students are expected to check their CBC email on a frequent and regular basis to stay current with college-related communications, recognizing that certain communications may be time-critical.

Copyright Law and Intellectual Property Rights Policy: Copyright is the right of an author, artist, composer or other creator of a work of authorship to control the use of his or her work by others. Protection extends to literary works, musical works, dramatic works, pantomimes and choreographic works, pictorial and graphic works, sculpture, motion pictures and other audiovisual works, sound recordings and architectural works. Generally speaking, a copyrighted work may not be reproduced by others without the copyright owner's permission. The public display or performance of copyrighted works is similarly restricted. Generally, the unauthorized reproduction, performance or distribution of a copyrighted work is copyright infringement and may subject the infringer to civil and criminal penalties. The Fair Use Doctrine outlines exceptions to this Law and is outlined in Coastal Bend College Policy, CT (Legal).

Coastal Bend College, its faculty, students and employees must comply with Copyright Law. Detailed information on Copyright Law and Intellectual Property Rights is available in Coastal Bend College Policy CT (Legal) and CT (Local).

Questions regarding this information should be directed to the Director of Library Services at: library@coastalbend.edu or the Office of Marketing and Public Relations at: socialmedia@coastalbend.edu.

Intellectual Property: Student /Third Party Works: Rights to copyrightable or patentable works created by a student or a third party, that is, not a College District employee, shall reside with the author/ creator. Detailed information on Copyright Law and Intellectual Property Rights is available in Coastal Bend College Policy CT (Legal) and CT (Local).

Questions regarding this information should be directed to the Director of Library Services at: library@coastalbend.edu or the Office of Marketing and Public Relations at: socialmedia@coastalbend.edu.

NOTE: The College website (http://coastalbend.edu) serves as the main source with the most current version of the Coastal Bend College Board Policies and the Coastal Bend College Catalog.

Student success is our number one priority at Coastal Bend College and we realize that prompt, effective communication (such as emails, assignment feedback, discussion boards and announcements) plays a significant role in achieving that goal. It is vitally important that you have the proper contact information for your instructor. This should include their phone number, email address, and if applicable, their office number, and office hours. Faculty schedules can be located online at http://coastalbend.edu/hb2504/

If you have any problems contacting your instructor, or do not receive a prompt response to your inquiries, please contact the Dean or Division Coordinator/Program Director as soon as possible. Their contact information is provided below:

Dean of Nursing and Allied Health:	Director of Radiography:
Loana Hernandez, RN	Virginia Wall, BSRS, R.T.(R)
361-664-2981 ext. 3037	361-354-2501
<u>Ihernandez@coastalbend.edu</u>	vtwall@coastalbend.edu

We wish you all the best in your education and encourage you to contact us if you have any questions or concerns.

Keeping student success in sight, faculty in each of the courses will review the course information, including specific reading schedules, assignments, and testing information, with students during the first week of class.

Additionally, the course information will be posted to Blackboard.

This master syllabus is subject to change due to unforeseen circumstances.