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Build CurricUNET Home Courses

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277A CT Basics SSTRAD-Special Studies Rad Tech SHULTZ, JOSEPH

CT Basics SSTRAD 277A Existing proposal. Remember to fill out all requirements on the course checklist. Course Cover must be marked complete.

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Course Cover

Page Last Saved on Friday, Sep 13, 2013 at 11:44 AM

By Kelli O'Rourke

Subject SSTRAD-Special Studies Rad Tech **Course Number Discipline** Radiological Technology

Control.

Computerized Tomography

will cover the didactic

for national examination

an accredited radiologic

technology school.

Tomography (CT).

certification eligibility.

Applications, and Quality

Physical Principals, Clinical

The medical field is in need of

(CT) certification. This course

Instructor and classroom space.

Students must be a graduate of

This course will be utilized as

a post-radiologic technology

certification introduction to the specialty of Computerized

radiologic technologists with

their Computerized Tomography

component of the requirements

Course Title CT Basics

Course was formerly: **Cross Listed Course Catalog Course Description**

Statement of Need as it pertains to the mission of Fresno City College:

Anticipated Costs: Special Requirements:

Relationship to existing courses:

Program Placement: Is this course part of an existing or new program? Is this a stand-alone course? Requesting placement for Pattern Number for AA/AS **Degree General Education**

Area Local Articulation with Reedley College:

FCC faculty have communicated about this course with appropriate faculty No

at Reedley College? This course is acceptable in lieu of a course at Reedley College.

4-year Institution Articulation:

No

Yes

Nο

Contact the Articulation Officer in the Counseling Center for assistance in determining the correct placement.

Request Transfer CSU list No Request UC transfer Request placement in Pattern Number for: Articulates with a CSU Fresno No

course:

Proposal Information

Proposed Start Requested Credit Classification (Applicable)

Year: 2014 Semester: Summer Credit - Degree Applicable

Transferable[]

Credit - Degree Applicable Non Transferable[]

Credit - Nondegree Applicable

[X]

Noncredit[]

Course Checklist

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Please enter information into all appropriate fields.

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Course Intensity

Nondegree-Applicable Credit

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Course Units/Hours

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Class Hours

Variable Hour Exist Number of Weeks

Units: Min: 3.00
Weekly Lecture
Hours
Weekly Lab
Hours
Total Contact
Min: 54.00

Hours
Times Repeated 0
Justification

Grading Methods Letter Grade

Open Entry /
Open Exit

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Objectives

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Done

Upon satisfactory completion of the course, students will be able to:

- 1. Describe the historical perspectives of the multiple generations of Computerized Tomography (CT) development.
- 2. Identify the various types of CT scanners utilized in the facilities.
- 3. Explain the process of data acquisition, image reconstruction and image display.
- 4. Evaluate technical factors and determine the least exposure to the patient.
- 5. Explain the manipulation of window width and window level.
- 6. Define the scanning protocols for the various areas of the body.

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Enter course objective and hit add. There is no outlining tool here so objectives are added one at a time.

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Student Learning Outcomes

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Done

Student Learning Outcomes Include:

1. Describe the differences in the multiple generations of ${\tt CT}$ scanners.

Examination.

2. Explain the proper exposure factor for any given anatomical body part.

Examination.

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Lecture Content

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If the course units are combined lecture and lab hours, lecture content supports lab content.

I. Computed Tomography: an Overview

II. Introduction to Computers

III. Digital Image Processing

IV. Physical Principals of Computed Tomography

V. Data Acquisition Concepts

VI. Image Reconstruction

VII. Basic Instrumentation

VIII. Image Postprocessing and Visualiztion Tools

IX. Image Quality

X. Radiation Dose in Computed Tomography

XI. Single-Slice Spiral/ Helical Computed
Tomography: Physical Principals and Instrumentation

XII. Multislice Spiral/ Helical Computed

Tomography: Physical Principals and Instrumentation

XIII. Other Technical Applications of Computed Tomography Imaging: Basic Principals

XIV. Three-Dimensional Computed Tomography: Basic

Concepts
XV. Virtual Reality Imaging

XVI. Positron Emission Tomography/Computed Tomography

Scanners
XVII. Computed Tomgraphy of the Head, Cerebral Vessels,

Neck, and Spine

XVIII. Computed Tomography of the Body

XIX. Pediatric Computed Tomography
XX. Quality Control for Computed Tomography Scanners

Done

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Help If the text in the content area has been cut and pasted, causing a different font and/or difficulty in formating the outline. do the following: Select all text, then type Ctrl 0 (zero). This will put the text into an editable outline form and into the right font that will match the rest of the outline. Then edit the old text by backspacing to undo the outline form so you can use the

outline formatting tools in curricunet.

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Evaluation Methods

Student Achievement Measurement

Methods of Evaluation to determine whether stated objectives have been met.

Students in this course will be graded in at least one of the following categories.

For degree applicable credit: a minimum of one category (A, B and/or C) must be checked.

Oral Assessment

A. WRITTEN
ASSIGNMENTS
B. PROBLEMSOLVING

D. OTHER

NO other (specify) Short composition informal. other (specify)

Proficiency in scanning protocols, technique manipulation and exposure factors.

C. SKILL DEMONSTRATION

e.g. student presentations, discussion, debate, etc. In depth discussions of aspects of Computerized Tomography. Testing and Short Answers e.g. matching, multiple choice

e.g. matching, multiple choice questions, true/false, fill-ins, quizzes, short tests, etc.

Multiple choice, matching and fill-in examinations.

.....

Done

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Course Methods of Instruction

Methods
Lecture/Discussion
Media/Audiovisual
Other (Specify)

Other Methods Discussion of the various types of CT scanners and their safe operation.

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Help

Please check any type of evaluation methods that may be used by instructors of this course. If there are any evaluation methods that are not listed, please check "other" and list them in the box provided. "Lab work" may only be claimed for a class that has lab hours. Note that if the course could be offered through distributed education, a new page will appear on the checklist which must be filled out.

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Course Textbooks/Resources

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Textbooks such as the following are appropriate:

Level

Oprimarily College Level
Oprimarily NOT College Level

How Determined Professional Judgment

Save

Textbooks

1. Required Seeram, E.. Computed Tomography, Third ed. Burnaby, British Columbia, Canada: Elsvier, 2009, ISBN: 978-1-4160-2895-6.

Manuals

You have no manuals defined.

Periodicals

You have no periodicals defined.

Software

You have no software defined.

Other

You have no other defined.

Notes

You have no notes defined.

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Help

This is a list of representative texts. They are not the textbook that an instructor must use. Where available, texts listed in the course outline should be no more than five years old. This item plays an important role in articulation of the course.

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Requisites

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Edit/Delete Requisites

Prerequisite
Student must be a graduate of an accredited school of radiologic technology

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Analysis

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Help In order to add

requisites, a requisite analysis must have been performed on the previous pages. For content review, it is required that the requisites and requisite analysis be reviewed and approved. To add a requisite, choose the appropriate type from the dropdown menu, then click "Add." Then choose a course number and title. If none are present, you must first perform a requisite analysis on the previous pages. A minimum grade that is acceptable for this requisite is unnecessary since all prerequisites have a minimum grade of C already defined. If students must take this course "and" another course, or if



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Content Review

You have not defined content review.

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General Education/Degree/Transfer Course

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Out of Class Assignments Required Reading

Text book.

Required Writing

Chapter summaries.

Other Critical Thinking

Class participation and assignments require and develop critical thinking (see Expected Outcomes/Objectives) Application of the information and general principals mastered in the radiologic technology school will be extended to the specialty of Computerized Tomography (CT). Class will develop the physical understanding, clinical applications, quality control and safe operation of a CT unit.

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Special Studies

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Sponsoring Health Sciences Division/Area Subject Area

Radiologic Technology

Semester of Semester: Summer

Year:2014

No. of time previously offered

Times/Days

Offering

Start Date: 05/19/2014 If short-term, End Date: 08/08/2014 indicate dates

Room: HS200

Start time: 18:00 End time: 20:50

Tue

Additional Room: Times/Days(if

Start time: End time: applicable) Instructor of Instructor: Richard Davis

Record Load Type: PT **Additional** Instructor: Instructor Load Type:

Section Capacity 36

Instructor

Consent No

Required

Health Fee No Exempt Tuition Exempt No Open Entry / No Open Exit

GL Number

Special Student must be a graduate of an

accredited radiologic technology program. Requirements

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Library Resources

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