



# Sect. Anat. for Med. Imaging-23172

## RADR-2340

RT 2022 Section 2 3 Credits 08/23/2021 to 12/12/2021 Modified 08/03/2021

### Course Meetings

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#### Course Modality

Classroom Lecture

#### Meeting Days

Tuesdays

#### Meeting Times

8:00a to 10:50a

#### Meeting Location

Coleman Tower Room 309

### Welcome and Instructor Information

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#### Instructor: Roger Bumgardner

Email: [roger.bumgardner@hccs.edu](mailto:roger.bumgardner@hccs.edu)

Office: Room 528

Phone: 713-178-7649

#### What's Exciting About This Course

Applying your anatomical knowledge to advanced imaging modalities.

#### My Personal Welcome

I am glad to have you back on campus. As my friends and former students will tell you, I love sharing in person. I hope you will enjoy the content of this course as much as I enjoy teaching it.

#### Preferred Method of Contact

Email [roger.bumgardner@hccs.edu](mailto:roger.bumgardner@hccs.edu)

#### Office Hours

Tuesday, 1:00 PM to 4:00 PM, Coleman Room 528

All day on Thursdays Thru September

# Course Overview

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## Requisites

### Prerequisites and/or Co-Requisites

Admission to the Radiography Program. Please carefully read and consider the repeater policy in the [HCCS Student Handbook](https://www.hccs.edu/resources-for/current-students/student-handbook/) (<https://www.hccs.edu/resources-for/current-students/student-handbook/>)

## Core Curriculum Objectives (CCOs)

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- **Critical Thinking.** Students will demonstrate the ability to engage in inquiry and analysis, evaluation and synthesis of information, and creative thinking by completing a written assignment such as a book report, research paper, or essay.
- **Communication Skills.** Students will demonstrate effective development, interpretation and expression of ideas through written, oral, and visual communication by completing a written assignment such as a book report, research paper, or essay.
- **Quantitative and Empirical Literacy.** Students will demonstrate the ability to draw conclusions based on the systematic analysis of topics using observation, experiment, and/or numerical skills by completing textbook reading assignments, completing assignments, and answering questions on quizzes and exams that pertain to Course Student Learning Outcome.

## Student Learning Outcomes and Objectives

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As outlined in the learning plan, Apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry.

Can be found at: <https://www.hccs.edu/programs/areas-of-study/health-sciences/radiography/>  
(<https://www.hccs.edu/programs/areas-of-study/health-sciences/radiography/>)

## Departmental Practices and Procedures

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### Expectations

Students are expected to conduct themselves while in the classroom/lab, in the same professional manner that they are expected to display in the clinical environment. Any exceptions to these policies will be considered a major infraction.

### Program Policies

- Students are expected to comply with all program regulations during this course.
- Cell phones may be left on in vibrate or silence mode during regular class times. They are to be off during testing and stored away. Smart watch or watch phone are not to worn during testing.
- Examinations will start promptly at the beginning of class. All examinations and quizzes are timed. Late arrivals will be given no extra time to complete the quiz or test.
- Students may not leave the F2F classroom or remote testing while an exam is in progress or before the exam is completed. I
- Recording devices may not be used during test reviews and when otherwise stated by the instructor.
- Students may not use abusive or foul language.
- Students may not fight, physically or verbally, on college property.
- Students may not falsify attendance.
- Students may not steal program or college property.
- Students will not be allowed to bring audio recording devices in to the classroom.
- Students are not allowed to record lectures in audio or visually.

# Instructional Materials and Resources

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## Instructional Materials

The [HCC Online Bookstore \(https://hccs.bnccollege.com/shop/hccs-central/page/find-textbooks\)](https://hccs.bnccollege.com/shop/hccs-central/page/find-textbooks) provides searchable information on textbooks for all courses. Check with your instructor before purchasing textbooks because the book might be included in your course fees.

Sectional Anatomy for Medical Imaging Title: Sectional Anatomy for Imaging Professionals, Fourth Edition. Author: Kelly and Petersen. Publisher: Elsevier/Mosby

ISBN-13: 978-0323414876

ISBN-10: 0323414877

## Course Requirements

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### Assignments, Exams, and Activities

| Type                           | Weight | Topic | Notes   |
|--------------------------------|--------|-------|---|
| Quizzes, Modules & Discussions | 10%    |       | This will be done throughout the semester.  |
| Exams                          | 50%    |       | 2 exams taken in the computer lab.  |
| Project                        | 15%    |       | Research a healthcare practice that is not typically seen in the Medical Center. You will present your research to the class. |
| Final Exam                     | 25%    |       | Final is comprehensive.   |
|                                |        |       |   |

### Grading Formula

| Grade | Range     | Notes |
|-------|-----------|-------|
| A     | 90 to 100 |       |
| B     | 80 to 89  |       |
| C     | 75 to 79  |       |
| D     | 60 to 74  |       |
| F     | Below 60  |       |

## Instructor's Practices and Procedures

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### Incomplete Policy

An Incomplete may be given due to catastrophic circumstances. In all cases, the instructor reserves the right to decline a student's request to receive a grade of Incomplete.

### Missed Assignments/Make-Up Policy

All students are expected to take announced exams. There will be no make-up exams. When an Announced Major Exam is missed, the percentage of that missed exam will be added to the Final Exam percentage for the grade. (Example: if Exam I is missed it normally would count 25%, then that 25% will be added to the Final Exam making it worth 50% rather than 25%.)

If there is a documented catastrophic event, an extension may be granted:

## Academic Integrity

Here's the link to the HCC information about academic integrity (Scholastic Dishonesty and Violation of Academic Scholastic Dishonesty and Grievance):

<https://www.hccs.edu/about-hcc/procedures/student-rights-policies--procedures/student-procedures/>  
(<https://www.hccs.edu/about-hcc/procedures/student-rights-policies--procedures/student-procedures/>)

## Attendance Procedures

While attendance is not part of the grade, students are encouraged to attend all lectures.

Attendance will be taken at each class meeting.

Students absent from this course for more than 12.5% of the total hours of instruction may be administratively dropped. This class has 48 contact hours. A student may be dropped after 6 hours of absence. Any student who is absent from the class for more than 25% of the class session will be counted absent for the day.

The last day to withdraw with a "W" is Friday October 29 by 4:30pm

## Student Conduct

Students are expected to conduct themselves while in the classroom/lab, in the same professional manner that they are expected to display in the clinical environment. Any exceptions to these policies will be considered a major infraction. The policies listed below must be followed:

- Students are expected to comply with all program regulations during this class.
- Cell phones may be left on in vibrate or silence mode during regular class times. They are to be off during testing and stored. Smart watch or watch phone are not to worn during testing. Examinations will start promptly at the beginning of class. All examinations and quizzes are timed. Late arrivals will be given no extra time to complete the quiz or test.

## Instructor's Course-Specific Information

As your Instructor, it is my responsibility to:

- Provide the grading scale and detailed grading formula explaining how student grades are to be derived
- Facilitate an effective learning environment through learner-centered instructional techniques
- Provide a description of any special projects or assignments
- Inform students of policies such as attendance, withdrawal, tardiness, and making up assignments
- Provide the course outline and class calendar that will include a description of any special projects or assignments
- Arrange to meet with individual students before and after class as required

## Devices

Recording Devices are allowed in class. No devices can be used in the testing area.

## Faculty Statement about Student Success

As a student, it is your responsibility to:

- Attend class in person and/or online
- Participate actively by reviewing course material, interacting with classmates, and responding promptly in your communication with me
- Read and comprehend the textbook
- Complete the required assignments and exams

- Ask for help when there is a question or problem
- Keep up to date with all paperwork, including this syllabus, handouts, and assignments
- Be aware of and comply with academic honesty policies in the [HCCS Student Handbook](#)

## Faculty-Specific Information Regarding Canvas

This course section will use Canvas (<https://eagleonline.hccs.edu> (<https://eagleonline.hccs.edu>)) to supplement in-class assignments, exams, and activities.

HCCS Open Lab locations may be used to access the Internet and Canvas. For best performance, Canvas should be used on the current or first previous major release of Chrome, Firefox, Edge, or Safari. Because it's built using web standards, Canvas runs on Windows, Mac, Linux, iOS, Android, or any other device with a modern web browser.

Canvas only requires an operating system that can run the latest compatible web browsers. Your computer operating system should be kept up to date with the latest recommended security updates and upgrades.

## Social Justice Statement

Add Content Here

## HCC Policies and Information

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### HCC Radiography Grading System

HCC uses the following standard grading system:

| Grade | Grade Interpretation  | Grade Points |
|-------|---|--------------|
| A     | Excellent (90-100)  | 4            |
| B     | Good (80-89)  | 3            |
| C     | Fair (75-79)  | 2            |
| D     | Passing (60-74) (considered failing in Radiography)   | 1            |
| F     | Failing (59 and below)  | 0            |
| FX    | Failing due to non-attendance   | 0            |
| W     | Withdrawn   | 0            |
| I     | Incomplete  | 0            |
| AUD   | Audit   | 0            |
| IP    | In Progress. Given only in certain developmental courses. A student must re-enroll to receive credit. | 0            |
| COM   | Completed. Given in non-credit and continuing education courses.                                      | 0            |

## Link to Policies in Student Handbook

Here's the link to the HCC Student Handbook <https://www.hccs.edu/resources-for/current-students/student-handbook/> (<https://www.hccs.edu/resources-for/current-students/student-handbook/>) In it you will find information about the following:

- Academic Information
- Academic Support
- Attendance, Repeating Courses, and Withdrawal
- Career Planning and Job Search
- Childcare
- disAbility Support Services
- Electronic Devices
- Equal Educational Opportunity
- Financial Aid TV (FATV)
- General Student Complaints
- Grade of FX
- Incomplete Grades
- International Student Services
- Health Awareness
- Libraries/Bookstore
- Police Services & Campus Safety
- Student Life at HCC
- Student Rights and Responsibilities
- Student Services
- Testing
- Transfer Planning
- Veteran Services

## Link to HCC Academic Integrity Statement

<https://www.hccs.edu/resources-for/faculty/student-conduct-resources-for-faculty/> (<https://www.hccs.edu/resources-for/faculty/student-conduct-resources-for-faculty/>)

## Campus Carry Link

Here's the link to the HCC information about Campus Carry:

<https://www.hccs.edu/departments/police/campus-carry/> (<https://www.hccs.edu/departments/police/campus-carry/>)

## HCC Email Policy

When communicating via email, HCC requires students to communicate only through the HCC email system to protect your privacy. If you have not activated your HCC student email account, you can go [to HCC Eagle ID \(https://www.hccs.edu/resources-for/current-students/student-e-maileagle-id/\)](https://www.hccs.edu/resources-for/current-students/student-e-maileagle-id/) and activate it now. You may also use Canvas Inbox to communicate.

## Office of Institutional Equity

Use the link below to access the HCC Office of Institutional Equity, Inclusion, and Engagement (<https://www.hccs.edu/departments/institutional-equity/> (<https://www.hccs.edu/departments/institutional-equity/>))

## Ability Services

HCC strives to make all learning experiences as accessible as possible. If you anticipate or experience academic barriers based on your disability (including long and short term conditions, mental health, chronic or temporary medical conditions), please meet with a campus Abilities Counselor as soon as possible in order to establish reasonable accommodations. Reasonable accommodations are established through an interactive process between you, your instructor(s) and Ability Services. It is the policy and practice of HCC to create inclusive and accessible learning environments consistent with federal and state law. For more information, please go to <https://www.hccs.edu/support-services/ability-services/> (<https://www.hccs.edu/support-services/ability-services/>)

## Title IX

Houston Community College is committed to cultivating an environment free from inappropriate conduct of a sexual or gender-based nature including sex discrimination, sexual assault, sexual harassment, and sexual violence. Sex discrimination includes all forms of sexual and gender-based misconduct and violates an individual's fundamental rights and personal dignity. Title IX prohibits discrimination on the basis of sex-including pregnancy and parental status in educational programs and activities. If you require an accommodation due to pregnancy please contact an Abilities Services Counselor. The Director of EEO/Compliance is designated as the Title IX Coordinator and Section 504 Coordinator. All inquiries concerning HCC policies, compliance with applicable laws, statutes, and regulations (such as Title VI, Title IX, and Section 504), and complaints may be directed to:

David Cross

Director EEO/Compliance

Office of Institutional Equity & Diversity

3100 Main

(713) 718-8271

Houston, TX 77266-7517 or [Institutional.Equity@hccs.edu](mailto:Institutional.Equity@hccs.edu) (<mailto:Institutional.Equity@hccs.edu>)

<http://www.hccs.edu/departments/institutional-equity/title-ix-know-your-rights/> (<http://www.hccs.edu/departments/institutional-equity/title-ix-know-your-rights/>)

## Office of the Dean of Students

Contact the office of the Dean of Students to seek assistance in determining the correct complaint procedure to follow or to identify the appropriate academic dean or supervisor for informal resolution of complaints.

<https://www.hccs.edu/about-hcc/procedures/student-rights-policies--procedures/student-complaints/speak-with-the-dean-of-students/> (<https://www.hccs.edu/about-hcc/procedures/student-rights-policies--procedures/student-complaints/speak-with-the-dean-of-students/>)

## Student Success

Expect to spend at least twice as many hours per week outside of class as you do in class studying the course content.

Additional time will be required for written assignments. The assignments provided will help you use your study hours wisely.

Successful completion of this course requires a combination of the following:

- Reading the textbook
- Attending class in person and/or online
- Completing assignments
- Participating in class activities

There is no short cut for success in this course; it requires reading (and probably re-reading) and studying the material using the course objectives as a guide.

## Canvas Learning Management System

Canvas is HCC's Learning Management System (LMS), and can be accessed at the following URL:

<https://eagleonline.hccs.edu> (<https://eagleonline.hccs.edu>)

HCCS Open Lab locations may be used to access the Internet and Canvas. For best performance, Canvas should be used on the current or first previous major release of Chrome, Firefox, Edge, or Safari. Because it's built using web standards, Canvas runs on Windows, Mac, Linux, iOS, Android, or any other device with a modern web browser.

Canvas only requires an operating system that can run the latest compatible web browsers. Your computer operating system should be kept up to date with the latest recommended security updates and upgrades.

## HCC Online Information and Policies

Here is the link to information about HCC Online classes, which includes access to the required Online Information Class Preview for all fully online classes: <https://www.hccs.edu/online/> (<https://www.hccs.edu/online/>)

## Scoring Rubrics, Sample Assignments, etc.

Look in Canvas for the scoring rubrics for assignments, samples of class assignments, and other information to assist you in the course. <https://eagleonline.hccs.edu/login/ldap> (<https://eagleonline.hccs.edu/login/ldap>)

## Instructor and Student Responsibilities

As your Instructor, it is my responsibility to:

- Provide the grading scale and detailed grading formula explaining how student grades are to be derived
- Facilitate an effective learning environment through learner-centered instructional techniques
- Provide a description of any special projects or assignments
- Inform students of policies such as attendance, withdrawal, tardiness, and making up assignments
- Provide the course outline and class calendar that will include a description of any special projects or assignments
- Arrange to meet with individual students during office hours, and before and after class as required

As a student, it is your responsibility to:

- Attend class in person and/or online
- Participate actively by reviewing course material, interacting with classmates, and responding promptly in your communication with me
- Read and comprehend the textbook
- Complete the required assignments and exams
- Ask for help when there is a question or problem
- Keep copies of all paperwork, including this syllabus, handouts, and all assignments
- Be aware of and comply with academic honesty policies in the [HCCS Student Handbook \(https://www.hccs.edu/resources-for/current-students/student-handbook/\)](https://www.hccs.edu/resources-for/current-students/student-handbook/)

## EGLS3

The EGLS<sup>3</sup> ([Evaluation for Greater Learning Student Survey System \(https://www.hccs.edu/resources-for/current-students/egls3-evaluate-your-professors/\)](https://www.hccs.edu/resources-for/current-students/egls3-evaluate-your-professors/)) will be available for most courses near the end of the term until finals start. This brief survey will give invaluable information to your faculty about their teaching. Results are anonymous and will be available to faculty and division chairs after the end of the term. EGLS<sup>3</sup> surveys are only available for the Fall and Spring semesters. -EGLS3 surveys are not offered during the Summer semester due to logistical constraints.

<https://www.hccs.edu/resources-for/current-students/egls3-evaluate-your-professors/> (<https://www.hccs.edu/resources-for/current-students/egls3-evaluate-your-professors/>)

## Housing and Food Assistance for Students

Any student who faces challenges securing their foods or housing and believes this may affect their performance in the course is urged to contact the Dean of Students at their college for support. Furthermore, please notify the professor if you are comfortable in doing so.

This will enable HCC to provide any resources that HCC may possess.

## Student Resources

### Tutoring

HCC provides free, confidential, and convenient academic support, including writing critiques, to HCC students in an online environment and on campus. Tutoring is provided by HCC personnel in order to ensure that it is contextual and appropriate. Visit the [HCC Tutoring Services \(https://www.hccs.edu/resources-for/current-students/tutoring/\)](https://www.hccs.edu/resources-for/current-students/tutoring/) website for services provided.

### Libraries

The HCC Library System consists of 9 libraries and 6 Electronic Resource Centers (ERCs) that are inviting places to study and



collaborate on projects. Librarians are available both at the libraries and online to show you how to locate and use the resources you need. The libraries maintain a large selection of electronic resources as well as collections of books, magazines, newspapers, and audiovisual materials. The portal to all libraries' resources and services is the HCCS library web page at <https://library.hccs.edu> (<https://library.hccs.edu>).

## Supplementary Instruction

Supplemental Instruction is an academic enrichment and support program that uses peer-assisted study sessions to improve student retention and success in historically difficult courses. Peer Support is provided by students who have already succeeded in completion of the specified course, and who earned a grade of A or B. Find details at <https://www.hccs.edu/resources-for/current-students/supplemental-instruction/> (<https://www.hccs.edu/resources-for/current-students/supplemental-instruction/>).

## Resources for Students:

<https://www.hccs.edu/resources-for/current-students/communicable-diseases/resources-for-students/>  
(<https://www.hccs.edu/resources-for/current-students/communicable-diseases/resources-for-students/>)

## Basic Needs Resources:

<https://www.hccs.edu/support-services/counseling/hcc-cares/basic-needs-resources/> (<https://www.hccs.edu/support-services/counseling/hcc-cares/basic-needs-resources/>)

## Student Basic Needs Application:

[https://hccs.co1.qualtrics.com/jfe/form/SV\\_25WyNx7NwMRz1FH](https://hccs.co1.qualtrics.com/jfe/form/SV_25WyNx7NwMRz1FH)  
([https://hccs.co1.qualtrics.com/jfe/form/SV\\_25WyNx7NwMRz1FH](https://hccs.co1.qualtrics.com/jfe/form/SV_25WyNx7NwMRz1FH))

## COVID-19

Here's the link to the HCC information about COVID-19:

<https://www.hccs.edu/resources-for/current-students/communicable-diseases/> (<https://www.hccs.edu/resources-for/current-students/communicable-diseases/>)

## Sensitive or Mature Course Content

In this college-level course, we may occasionally discuss sensitive or mature content. All members of the classroom environment, from your instructor to your fellow students, are expected to handle potentially controversial subjects with respect and consideration for one another's varied experiences and values.

## Instructional Modalities

### In-Person (P)

Safe, face-to-face course with scheduled dates and times

### Online on a Schedule (WS)

Fully online course with virtual meetings at scheduled dates and times

### Online Anytime (WW)

Traditional online course without scheduled meetings

### Hybrid (H)

Course that meets safely 50% face-to-face and 50% virtually

### Hybrid Lab (HL)

Lab class that meets safely 50% face-to-face and 50% virtually

## Syllabus Modifications:

The instructor reserves the right to modify the syllabus at any time during the semester and will promptly notify students in writing, typically by e-mail, of any such changes.

| Week | Dates   | Time     | Topic/What's due                                     | Activity/Reading                        |
|------|---------|----------|--|---|
| 1    | Aug. 24 | 8a – 11a | Review Syllabus<br>Introduction to Sectional Anatomy | Chapter 1                               |
| 2    | Aug. 31 | 12p – 3p | Cranium and Facial Bones                             | Chapter 2<br>Switch times with Mr. Daza |
| 3    | Sep. 7  | 8a – 11a | Brain  | Chapter 3                               |
| 4    | Sep. 14 | 8a – 11a | Brain  | Chapter 3                               |
| 5    | Sep. 21 | 8a – 11a | Neck   | Chapter 5                               |
| 6    | Sep. 28 | 8a – 11a | Spine  | Chapter 4                               |
| 7    | Oct. 5  | 8a – 11a | Exam 1 & Review of Test                              | Module 8 Test Due                       |
| 8    | Oct. 12 | 8a – 11a | Thorax   | Chapter 6                               |
| 9    | Oct. 19 | 8a – 11a | Work on Project<br>& Module 9                        | Work on your own                        |
| 10   | Oct. 26 | 8a – 11a | Abdomen  | Chapter 7                               |
| 11   | Nov. 2  | 8a – 11a | Pelvis   | Chapter 8                               |
| 12   | Nov. 9  | 8a – 11a | Exam 2 & Review of Test                              | Module 9 Test Due                       |
| 13   | Nov. 16 | 8a – 11a | Projects Group 1                                     | Presentations                           |
| 14   | Nov. 23 | 8a – 11a | Project Group 2                                      | Presentations                           |
| 15   | Nov. 30 | 8a – 11a | Upper and Lower Extremities and Review<br>for Final  | Chapter 9 & 10                          |
| 16   | Dec. 7  | 8a – 11a | FINAL EXAM   | Computer Lab                            |

**Goal:**

The project is to investigate a religious, cultural, racial or ethnic belief about health care and medicine as compared to current practices and beliefs in the predominate medical community.

**Objectives:**

- Identify a particular group to investigate
- Provide a description of that group and their demographics
- Investigate one or more beliefs or practices of the group
- Discuss the origin of the belief or practice
- Offer ideas and suggestions for respecting and dealing with the practice or belief as related to our current medical practice

**The Specifics:**

- Two person presentation team (both **MUST** present)
- Must be 10 to 15 minutes in length
- Must have some type of visual aid (power point, video, objects, poster, or models) you may use more than one
- Must use two documented sources
- May also use personal interviews (recommended)
- An electronic copy of the presentation **MUST** be submitted to me prior to

**The presentation will be graded on:**

**Verbal Presentation:**

The presentation will be graded on the speaker's knowledge and delivery of the subject matter, speaking tone, use of visual aids and time.

**40 Points**

**Visual Presentation**

The Visual Aide will be graded on its quality and value. Did it demonstrate what the speaker was presenting?

**40 points**

**Documentation:**

Electronic copy submitted.

**10 points**

**Evaluation of other Presenters:**

Following directions of Instructor

**10 points**

**RADR 2340 Project 2**

**Goal:**

The Project is to investigate the important contributions made to Houston and the World by one of the organizations or operations in the Medical Center

1. The Memorial Hermann Life Flight Operation, Dr. Michael E. DeBakey as shown in The Michael E. DeBakey Museum and Library at Baylor College of Medicine, MD Anderson Cancer Center, Texas Children's Hospital, or Shriners' Hospital.

**Objectives:**

- Provide the history of the organization/ operation
- Provide a description of the organization/operation
- Investigate and the major contributions of the organization/operation

- Discuss the importance of the organization/operation
- Present information on how the organization/operation has changed Houston, Medicine, and the World

**The Specifics:**

- Two persons presentation team (both **MUST** present)
- Must be 10 to 15 minutes in length
- Must have some type of visual aide (power point, video, overheads, objects, poster, or models) you may use more than one
- Must use two documented sources
- Must Visit the Organization or Operation
- May also use personal interviews (recommended)
- An electronic copy of the presentation **MUST** be submitted prior to the

**The presentation will be graded on:**

**Verbal Presentation:**

The presentation will be graded on the speaker’s knowledge and delivery of the subject matter, speaking tone, and use of visual aids.

**40 Points**

**Visual Presentation**

The Visual Aide will be graded on its quality and value. Did it demonstrate what the speaker was presenting?

**40 points**

**Documentation:**

Electronic Copy submitted.

**10 points**

**Evaluation of other Presenters:**

Following directions of Instructor

**10 points**

## Additional Information

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### Departmental/Program Information

#### Radiography

The two-year AAS Radiography program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 N. Wacker Dr., Suite 2850, Chicago, IL 60606, Telephone: 312.704.5300. Graduates are eligible to apply for the American Registry of Radiologic Technologists (ARRT) Certification Examination, 1255 Northland Dr., St. Paul, MN 55120-1155 and obtain a license from the Texas Department of State Health Services, P.O. Box 149347, Austin, TX, 78714.

The Bureau of Labor Statistics, as of 2007 says, “Radiographers produce x-ray images of the human body for use in diagnosing medical problems. They prepare patients for radiologic examinations by explaining the procedure, removing articles such as jewelry, through which x rays cannot pass, and positioning patients so that the parts of the body can be appropriately radiographed. To prevent unnecessary radiation exposure, technologists surround the exposed area with radiation protection devices, such as lead shields, or limit the size of the x-ray beam.

Radiographers position radiographic equipment at the correct angle and height over the appropriate area of a patient’s body. Using instruments similar to a measuring tape, technologists may measure the thickness of the section to be radiographed and set controls on the machine to produce radiographs of the appropriate density, detail, and contrast. They place the x-ray cassettes under the part of the patient’s body to be examined and make the exposure. They develop or process the images.

For fluoroscopic exams, radiographers prepare a solution of contrast medium for the patient to drink, allowing the radiologist, a physician who interprets images, to see soft tissues in the body. Radiologic technologists must follow physicians' orders precisely and conform to regulations concerning use of radiation to protect themselves, their patients, and coworkers from unnecessary exposure. In addition to preparing patients and operating equipment, radiologic technologists keep patient records and adjust and maintain equipment. They may also prepare work schedules, evaluate equipment purchases, or manage a radiology department."

## Computed Tomography

The Computed Tomography program is a one-semester evening program leading to an Enhanced Skills Certificate (ESC) or, in some cases, Continuing Education Units (CEUs). Courses have both theory and a competency-based clinical component. All CT courses must be enrolled in concurrently. Those who are accepted into the program will be required to pay a liability insurance fee, which protects the student against losses resulting from malpractice claims. Accepted students must also pay a radiation monitoring badge fee. The badge is required in all clinical education courses.

## Process for Expressing Concerns about the Course

If you have concerns about any aspect of this course, please reach out to your instructor for assistance first. If your instructor is not able to assist you, then you may wish to contact the Clinical Coordinator. If the Clinical Coordinator is not able to assist you, then you may contact the Department Chair.

Program Director: Christopher Daza

Email address: [Christopher.daza1@hccs.edu](mailto:Christopher.daza1@hccs.edu) (<mailto:%20Christopher.daza1@hccs.edu>)

Office phone number: 713-718-7645