

Date: Wednesday, April 23, 2008
From: Jan Gibson, Radiologic Technology
To: Lynne Rowan, School of Speech Pathology and Audiology
Re: Basic Data Sheets

Enclosed is the proposal, CCP, BDS, Catalog Changes and Requirement Sheet for the changes in the RADT and RIS programs. Please forward them to Dr. Arhar's office in the College of EHHS. Thank you.

4/24/08
Lynne,
The SPA faculty
voted this week
to support these
changes.
Lynne

KENT STATE UNIVERSITY

CERTIFICATION OF CURRICULUM PROPOSAL

Preparation Date **1-Apr-08**

Curriculum Bulletin _____

Effective Date **Fall 2009**

Approved by EPC _____

Department **EH**
College **RC - Regional Campuses**
Proposal **Revise Course**
Course Subject **RIS** Course Number **44002**
Course Title **Nuclear Medicine Procedures I**
Minimum Credits **03** Maximum Credits **03**

Selected items are new	<input type="checkbox"/> Subject	<input type="checkbox"/> Cross-Listed / Slash
	<input type="checkbox"/> Number	<input type="checkbox"/> Grade Rule
	<input type="checkbox"/> Title	<input type="checkbox"/> Credit by Exam
	<input type="checkbox"/> Title Abbreviation	<input type="checkbox"/> Course Fee
	<input type="checkbox"/> Credit Hours	<input type="checkbox"/> Liberal Education Requirements (LER)
	<input checked="" type="checkbox"/> Prerequisites	<input type="checkbox"/> Writing-Intensive
	<input checked="" type="checkbox"/> Description	<input type="checkbox"/> Diversity
	<input type="checkbox"/> Schedule Type	<input type="checkbox"/> Other

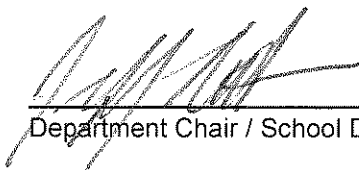
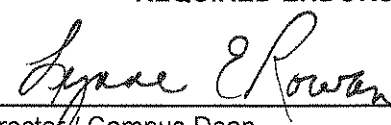
Describe impact on other policies, programs or procedures (e.g., encroachment and duplication issues; enrollment and staffing considerations; need, audience, prerequisites):

No impact on any other programs.

Units consulted (other departments, programs or campuses affected by this proposal):

School of Speech Pathology and Audiology, College of EHHS

REQUIRED ENDORSEMENTS

Department Chair / School Director / Campus Dean

4,24,08

College Dean

____/____/____

Executive Dean of Regional Campuses

____/____/____

Provost

____/____/____

BASIC DATA SHEET

All data entered below should reflect revised information.

Preparation Date **1-Apr-08** Requested Effective Term **Fall 2009**
 Course Subject **RIS** Course Number **44002**
 Course Title **Nuclear Medicine Procedures I**
 Title Abbreviation **NM Procedures I**
 Maximum 30 spaces, with no punctuation or special characters (exception: forward slash "/" is allowed with no spaces before or after the slash)
 Slash Course **/ /** Cross-listed with
4/5, 4/5/7 or 6/7
 Minimum Credit **03** ☐ to ☐ or Maximum Credit **03** (e.g., 3 to 3 credits, 1 to 12 credits, 2 or 4 credits)
 Contact Hours ☒ Lecture Minimum Hours **03** ☐ to ☐ or Maximum Hours **03**
 Per Week ☐ Laboratory Minimum Hours ☐ to ☐ or Maximum Hours
☐ Other Minimum Hours ☐ to ☐ or Maximum Hours
 Contact hours should be per week.
 Repeat Status **NR - Course may not be repeated**
 If repeats, course limit **OR** maximum hours
 Course Level **UG - Undergraduate**
 Grade Rule **B - Letter**
 Schedule Type(s) **LEC - Lecture**
 Course Attribute(s) **None**
 Credit By Exam **D - Credit by Exam as Approved by Department**

COMPLETE ONLY WHAT IS APPLICABLE TO THE COURSE

Prerequisite

Course(s) **RIS major**

Test Score(s)

Corequisite(s) **RIS 44001, 44005, 44006, 44011**

Registration is by permission only ☒ Yes ☐ No

Restrict Registration **RIS majors**

(e.g., VCD majors, East Liverpool Campus, sophomore level and above, graduate standing, BA-CHEM program)

COMPLETED BY PROVOST OFFICE

OBR Program Code _____

OBR Subsidy Code _____

OBR Course Level _____

CIP Code _____

Catalog Description **An anatomical and physiological review of the skeletal, cardiovascular, gastrointestinal, endocrine, genitourinary, respiratory, lymphatic, and central nervous organ systems. Basic nuclear medicine imaging procedures as related to the above listed organ systems is covered.**

Previous Title

Previous Subject

Previous Number

Content Outline (include contact hours for each section)

Contact Hours	Outline
3.00	Orientation to the human body
6.00	Skeletal System
9.00	Cardiovascular System
9.00	Digestive System
6.00	Endocrine System
3.00	Genitourinary System
3.00	Lymphatic System
3.00	Respiratory System
3.00	Central Nervous System

45.00 Total Contact Hours

Textbook(s) Used in this Course **Nuclear Medicine Technology Procedures and Quick Reference**
 Writing Expectations **None**
 Instructor(s) Expected To Teach **Janet Berger**
 Instructor(s) Contributing to Content

REQUIRED ENDORSEMENT



 Department Chair / School Director / Campus Dean

4/24/08

KENT STATE UNIVERSITY

CERTIFICATION OF CURRICULUM PROPOSAL

Preparation Date **1-Apr-08**

Curriculum Bulletin _____

Effective Date **Fall 2009**

Approved by EPC _____

Department **EH**
College **RC - Regional Campuses**
Proposal **Revise Course**
Course Subject **RIS** Course Number **44005**
Course Title **Nuclear Medicine Clinical Education I**
Minimum Credits **03** Maximum Credits **03**

Selected items are new

<input type="checkbox"/> Subject	<input type="checkbox"/> Cross-Listed / Slash
<input type="checkbox"/> Number	<input type="checkbox"/> Grade Rule
<input type="checkbox"/> Title	<input type="checkbox"/> Credit by Exam
<input type="checkbox"/> Title Abbreviation	<input type="checkbox"/> Course Fee
<input type="checkbox"/> Credit Hours	<input type="checkbox"/> Liberal Education Requirements (LER)
<input checked="" type="checkbox"/> Prerequisites	<input type="checkbox"/> Writing-Intensive
<input checked="" type="checkbox"/> Description	<input type="checkbox"/> Diversity
<input type="checkbox"/> Schedule Type	<input type="checkbox"/> Other

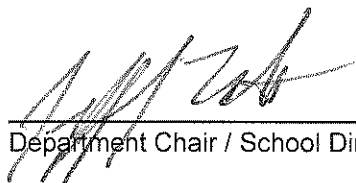
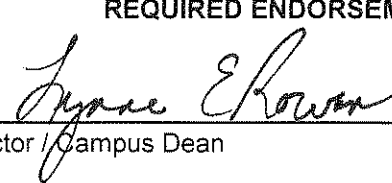
Describe impact on other policies, programs or procedures (e.g., encroachment and duplication issues; enrollment and staffing considerations; need, audience, prerequisites):

No impact on any other programs.

Units consulted (other departments, programs or campuses affected by this proposal):

School of Speech Pathology and Audiology, College of EHHS

REQUIRED ENDORSEMENTS

Department Chair / School Director / Campus Dean

4/24/08

College Dean

____/____/____

Executive Dean of Regional Campuses

____/____/____

Provost

____/____/____

BASIC DATA SHEET

All data entered below should reflect revised information.

Preparation Date **1-Apr-08** Requested Effective Term **Fall 2009**
 Course Subject **RIS** Course Number **44005**
 Course Title **Nuclear Medicine Clinical Education I**
 Title Abbreviation **NM Clinical Ed I**
 Maximum 30 spaces, with no punctuation or special characters (exception: forward slash "/" is allowed with no spaces before or after the slash)
 Slash Course **/ /** Cross-listed with
4/5, 4/5/7 or 6/7
 Minimum Credit **3** ☐ to ☐ or Maximum Credit **03** (e.g., 3 to 3 credits, 1 to 12 credits, 2 or 4 credits)
 Contact Hours ☐ Lecture Minimum Hours ☐ to ☐ or Maximum Hours
 Per Week ☒ Laboratory Minimum Hours **02** ☐ to ☐ or Maximum Hours
☒ Other Minimum Hours **24** ☐ to ☐ or Maximum Hours
 Contact hours should be per week.
 Repeat Status **NR - Course may not be repeated**
 If repeats, course limit OR maximum hours
 Course Level **UG - Undergraduate**
 Grade Rule **B - Letter**
 Schedule Type(s) **LAB - Laboratory CLN - Clinic**
 Course Attribute(s) **None**
 Credit By Exam **D - Credit by Exam as Approved by Department**

COMPLETE ONLY WHAT IS APPLICABLE TO THE COURSE

Prerequisite

Course(s) **RIS major**

Test Score(s)

Corequisite(s) **RIS 44001, 44002, 44006, 44011**

Registration is by permission only ☒ Yes ☐ No

Restrict Registration **RIS majors**

(e.g., VCD majors, East Liverpool Campus, sophomore level and above, graduate standing, BA-CHEM program)

COMPLETED BY PROVOST OFFICE

OBR Program Code _____

OBR Subsidy Code _____

OBR Course Level _____

CIP Code _____

Catalog Description **The student will acquire clinical experience in nuclear medicine procedures and patient care at the assigned clinical education site. The course includes an orientation to program and policies, observations of procedures, patient management, radiopharmacy, radiation safety, quality control, and equipment orientation. Competency testing begins.**

Previous Title

Previous Subject

Previous Number

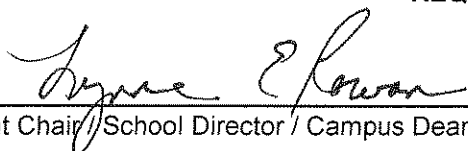
Content Outline (include contact hours for each section)

Contact Hours	Outline
10.00	Venipuncture
8.00	Instrumentation
9.00	Image evaluation
8.00	Nuclear Medicine procedures
10.00	Radiation safety and protection
8.00	Radiopharmacy

45.00 Total Contact Hours

Textbook(s) Used in this Course	Nuclear Medicine Technology Procedures and Quick Reference
Writing Expectations	Clinical Journal/Clinical Notebook
Instructor(s) Expected To Teach	Debra Stull
Instructor(s) Contributing to Content	Janet Berger

REQUIRED ENDORSEMENT



 Department Chair / School Director / Campus Dean

4,24,08

KENT STATE UNIVERSITY

CERTIFICATION OF CURRICULUM PROPOSAL

Preparation Date **1-Apr-08**

Curriculum Bulletin _____

Effective Date **Fall 2009**

Approved by EPC _____

Department **EH**
College **RC - Regional Campuses**
Proposal **Revise Course**
Course Subject **RIS** Course Number **44006**
Course Title **Nuclear Medicine Physics and Instrumentation I**
Minimum Credits **04** Maximum Credits **04**

Selected items are new

<input type="checkbox"/> Subject	<input type="checkbox"/> Cross-Listed / Slash
<input type="checkbox"/> Number	<input type="checkbox"/> Grade Rule
<input type="checkbox"/> Title	<input type="checkbox"/> Credit by Exam
<input type="checkbox"/> Title Abbreviation	<input type="checkbox"/> Course Fee
<input type="checkbox"/> Credit Hours	<input type="checkbox"/> Liberal Education Requirements (LER)
<input checked="" type="checkbox"/> Prerequisites	<input type="checkbox"/> Writing-Intensive
<input checked="" type="checkbox"/> Description	<input type="checkbox"/> Diversity
<input type="checkbox"/> Schedule Type	<input type="checkbox"/> Other

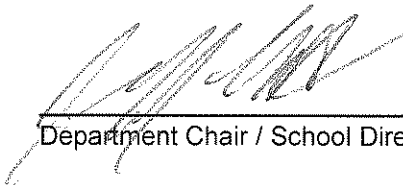
Describe impact on other policies, programs or procedures (e.g., encroachment and duplication issues; enrollment and staffing considerations; need, audience, prerequisites):

No impact on any other programs.

Units consulted (other departments, programs or campuses affected by this proposal):

School of Speech Pathology and Audiology, College of EHHS

REQUIRED ENDORSEMENTS

 Lynne E. Rowan
Department Chair / School Director / Campus Dean

4/24/08

College Dean

____/____/____

Executive Dean of Regional Campuses

____/____/____

Provost

____/____/____

BASIC DATA SHEET

All data entered below should reflect revised information.

Preparation Date **1-Apr-08** Requested Effective Term **Fall 2009**
 Course Subject **RIS** Course Number **44006**
 Course Title **Nuclear Medicine Physics and Instrumentation I**
 Title Abbreviation **NM Physics I**
 Maximum 30 spaces, with no punctuation or special characters (exception: forward slash "/" is allowed with no spaces before or after the slash)
 Slash Course **/ /** Cross-listed with
4/5, 4/5/7 or 6/7
 Minimum Credit **04** ☐ to ☐ or Maximum Credit **04** (e.g., 3 to 3 credits, 1 to 12 credits, 2 or 4 credits)
 Contact Hours ☒ Lecture Minimum Hours **04** ☐ to ☐ or Maximum Hours **04**
 Per Week ☐ Laboratory Minimum Hours ☐ to ☐ or Maximum Hours
☐ Other Minimum Hours ☐ to ☐ or Maximum Hours
 Contact hours should be per week.
 Repeat Status **NR - Course may not be repeated**
 If repeats, course limit OR maximum hours
 Course Level **UG - Undergraduate**
 Grade Rule **B - Letter**
 Schedule Type(s) **LEC - Lecture**
 Course Attribute(s) **None**
 Credit By Exam **D - Credit by Exam as Approved by Department**

COMPLETE ONLY WHAT IS APPLICABLE TO THE COURSE

Prerequisite

Course(s) **RIS major**

Test Score(s)

Corequisite(s) **RIS 44001, 44002, 44005, 44011**

Registration is by permission only ☒ Yes ☐ No

Restrict Registration **RIS majors**

(e.g., VCD majors, East Liverpool Campus, sophomore level and above, graduate standing, BA-CHEM program)

COMPLETED BY PROVOST OFFICE

OBR Program Code _____

OBR Subsidy Code _____

OBR Course Level _____

CIP Code _____

Catalog Description **Explores the concepts of the physical principles of nuclear medicine physics including interactions with matter. Information regarding radiation detectors and laboratory equipment and their applications, functions and limitations is included.**

Previous Title

Previous Subject

Previous Number

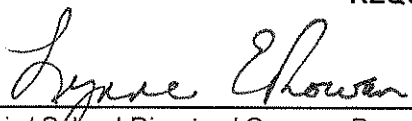
Content Outline (include contact hours for each section)

Contact Hours	Outline
10.00	The atom, nuclides and nature of radiation
10.00	Methods of radioactive decay and interactions with matter
12.00	Principles of radioactive decay
12.00	Principles of Radiation Detection
16.00	Instrumentation and Quality Control

60.00 Total Contact Hours

Textbook(s) Used in this Course **Nuclear Medicine and PET/CT Technology and Techniques**
 Writing Expectations **None**
 Instructor(s) Expected To Teach **Janet Berger**
 Instructor(s) Contributing to Content

REQUIRED ENDORSEMENT



 Department Chair / School Director / Campus Dean

4/24/08

KENT STATE UNIVERSITY

CERTIFICATION OF CURRICULUM PROPOSAL

Preparation Date **1-Apr-08**

Curriculum Bulletin _____

Effective Date **Fall 2009**

Approved by EPC _____

Department **EH**
College **RC - Regional Campuses**
Proposal **Revise Course**
Course Subject **RIS** Course Number **44010**
Course Title **Nuclear Medicine Clinical Education II**
Minimum Credits **03** Maximum Credits **03**

Selected items are new

<input type="checkbox"/> Subject	<input type="checkbox"/> Cross-Listed / Slash
<input type="checkbox"/> Number	<input type="checkbox"/> Grade Rule
<input type="checkbox"/> Title	<input type="checkbox"/> Credit by Exam
<input type="checkbox"/> Title Abbreviation	<input type="checkbox"/> Course Fee
<input type="checkbox"/> Credit Hours	<input type="checkbox"/> Liberal Education Requirements (LER)
<input checked="" type="checkbox"/> Prerequisites	<input type="checkbox"/> Writing-Intensive
<input checked="" type="checkbox"/> Description	<input type="checkbox"/> Diversity
<input type="checkbox"/> Schedule Type	<input type="checkbox"/> Other


Describe impact on other policies, programs or procedures (e.g., encroachment and duplication issues; enrollment and staffing considerations; need, audience, prerequisites):

No impact on any other programs.

Units consulted (other departments, programs or campuses affected by this proposal):

School of Speech Pathology and Audiology, College of EHHS

REQUIRED ENDORSEMENTS



Department Chair / School Director / Campus Dean

4, 24, 08

College Dean

Executive Dean of Regional Campuses

Provost

BASIC DATA SHEET

All data entered below should reflect revised information.

Preparation Date **1-Apr-08** Requested Effective Term **Fall 2009**
 Course Subject **RIS** Course Number **44010**
 Course Title **Nuclear Medicine Clinical Education II**
 Title Abbreviation **NM Clinical Ed II**
 Maximum 30 spaces, with no punctuation or special characters (exception: forward slash "/" is allowed with no spaces before or after the slash)
 Slash Course **/ /** Cross-listed with
4/5, 4/5/7 or 6/7
 Minimum Credit **3** ☐ to ☐ or Maximum Credit **03** (e.g., 3 to 3 credits, 1 to 12 credits, 2 or 4 credits)
 Contact Hours ☐ Lecture Minimum Hours ☐ to ☐ or Maximum Hours
 Per Week ☒ Laboratory Minimum Hours **02** ☐ to ☐ or Maximum Hours
☒ Other Minimum Hours **24** ☐ to ☐ or Maximum Hours
 Contact hours should be per week.
 Repeat Status **NR - Course may not be repeated**
 If repeats, course limit OR maximum hours
 Course Level **UG - Undergraduate**
 Grade Rule **B - Letter**
 Schedule Type(s) **LAB - Laboratory CLN - Clinic**
 Course Attribute(s) **None**
 Credit By Exam **D - Credit by Exam as Approved by Department**

COMPLETE ONLY WHAT IS APPLICABLE TO THE COURSE

Prerequisite

Course(s) **RIS 44005**

Test Score(s)

Corequisite(s) **RIS 44012, 44014, 44017**

Registration is by permission only ☒ Yes ☐ No

Restrict Registration **RIS majors**

(e.g., VCD majors, East Liverpool Campus, sophomore level and above, graduate standing, BA-CHEM program)

COMPLETED BY PROVOST OFFICE

OBR Program Code _____

OBR Subsidy Code _____

OBR Course Level _____

CIP Code _____

Catalog Description **Continuation of Clinical Education I will be instructed at both the clinical education sites and Salem Campus, with particular emphasis on Clinical procedures covered in RIS 44002 (NM Procedures I) and RIS 44012 (Procedures II). Clinical correlation for Radiopharmacy rotations and RIS 44014 (NM Physics and Instrumentation II) will be included. Competency testing continues; proficiency testing begins.**

Previous Title

Previous Subject

Previous Number

Content Outline (include contact hours for each section)

Contact Hours	Outline
5.00	Venipuncture
10.00	Instrumentation
10.00	Image evaluation
10.00	Nuclear Medicine Procedures
10.00	Radiopharmacy

45.00 Total Contact Hours

Textbook(s) Used in this Course	Nuclear Medicine Technology Procedures and Quick Reference
Writing Expectations	Clinical Journals/Clinical Notebook
Instructor(s) Expected To Teach	Debra Stull
Instructor(s) Contributing to Content	Janet Berger

REQUIRED ENDORSEMENT



 Department Chair / School Director / Campus Dean

4,24,08

KENT STATE UNIVERSITY

CERTIFICATION OF CURRICULUM PROPOSAL

Preparation Date **1-Apr-08**

Curriculum Bulletin _____

Effective Date **Fall 2009**

Approved by EPC _____

Department **EH**
College **RC - Regional Campuses**
Proposal **Revise Course**
Course Subject **RIS** Course Number **44012**
Course Title **Nuclear Medicine Procedures II**
Minimum Credits **03** Maximum Credits **03**

Selected items are new

<input type="checkbox"/> Subject	<input type="checkbox"/> Cross-Listed / Slash
<input type="checkbox"/> Number	<input type="checkbox"/> Grade Rule
<input type="checkbox"/> Title	<input type="checkbox"/> Credit by Exam
<input type="checkbox"/> Title Abbreviation	<input type="checkbox"/> Course Fee
<input type="checkbox"/> Credit Hours	<input type="checkbox"/> Liberal Education Requirements (LER)
<input checked="" type="checkbox"/> Prerequisites	<input type="checkbox"/> Writing-Intensive
<input checked="" type="checkbox"/> Description	<input type="checkbox"/> Diversity
<input type="checkbox"/> Schedule Type	<input type="checkbox"/> Other

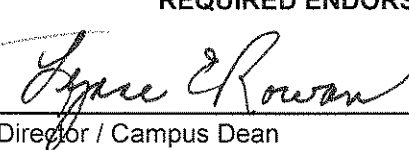
Describe impact on other policies, programs or procedures (e.g., encroachment and duplication issues; enrollment and staffing considerations; need, audience, prerequisites):

No impact on any other programs.

Units consulted (other departments, programs or campuses affected by this proposal):

School of Speech Pathology and Audiology, College of EHHS

REQUIRED ENDORSEMENTS

Department Chair / School Director / Campus Dean

4/24/08

College Dean

____/____/____

Executive Dean of Regional Campuses

____/____/____

Provost

____/____/____

BASIC DATA SHEET

All data entered below should reflect revised information.

Preparation Date **1-Apr-08** Requested Effective Term **Fall 2009**
 Course Subject **RIS** Course Number **44012**
 Course Title **Nuclear Medicine Procedures II**
 Title Abbreviation **NM Procedures II**
 Maximum 30 spaces, with no punctuation or special characters (exception: forward slash "/" is allowed with no spaces before or after the slash)
 Slash Course **/ /** Cross-listed with
4/5, 4/5/7 or 6/7
 Minimum Credit **03** ☐ to ☐ or Maximum Credit **03** (e.g., 3 to 3 credits, 1 to 12 credits, 2 or 4 credits)
 Contact Hours ☒ Lecture Minimum Hours **03** ☐ to ☐ or Maximum Hours **03**
 Per Week ☐ Laboratory Minimum Hours ☐ to ☐ or Maximum Hours
☐ Other Minimum Hours ☐ to ☐ or Maximum Hours
 Contact hours should be per week.
 Repeat Status **NR - Course may not be repeated**
 If repeats, course limit OR maximum hours
 Course Level **UG - Undergraduate**
 Grade Rule **B - Letter**
 Schedule Type(s) **LEC - Lecture**
 Course Attribute(s) **None**
 Credit By Exam **D - Credit by Exam as Approved by Department**

COMPLETE ONLY WHAT IS APPLICABLE TO THE COURSE

Prerequisite

Course(s) **RIS 44002**

Test Score(s)

Corequisite(s) **RIS 44010**

Registration is by permission only ☒ Yes ☐ No

Restrict Registration **RIS majors**

(e.g., VCD majors, East Liverpool Campus, sophomore level and above, graduate standing, BA-CHEM program)

COMPLETED BY PROVOST OFFICE

OBR Program Code _____

OBR Subsidy Code _____

OBR Course Level _____

CIP Code _____

Catalog Description **Biological, anatomical, physiological and procedural aspects of nuclear medicine as related to the cardiovascular system, the endocrine system, the genitourinary system, inflammatory and tumor imaging, the central nervous system, the gastrointestinal system, the respiratory system and the skeletal system.**

Previous Title

Previous Subject

Previous Number

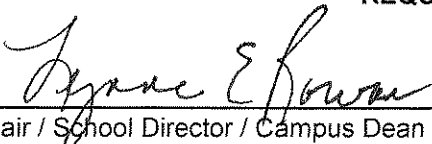
Content Outline (include contact hours for each section)

Contact Hours	Outline
6.00	Genitourinary System
6.00	Gastrointestinal System
6.00	Inflammatory Process and Tumor Imaging
6.00	Central Nervous System
6.00	Endocrine System
3.00	Respiratory System
6.00	Cardiovascular System
3.00	Skeletal System
3.00	All system review

45.00 Total Contact Hours

Textbook(s) Used in this Course	Mettler, Essentials of Nuclear Medicine Imaging
Writing Expectations	Article Summaries
Instructor(s) Expected To Teach	Janet Berger
Instructor(s) Contributing to Content	

REQUIRED ENDORSEMENT


 Department Chair / School Director / Campus Dean

4/24/08

KENT STATE UNIVERSITY

CERTIFICATION OF CURRICULUM PROPOSAL

Preparation Date **1-Apr-08**

Curriculum Bulletin _____

Effective Date **Fall 2009**

Approved by EPC _____

Department **EH**
College **RC - Regional Campuses**
Proposal **Revise Course**
Course Subject **RIS** Course Number **44014**
Course Title **Nuclear Medicine Physics and Instrumentation II**
Minimum Credits **3** Maximum Credits **3**

Selected items are new

<input type="checkbox"/> Subject	<input type="checkbox"/> Cross-Listed / Slash
<input type="checkbox"/> Number	<input type="checkbox"/> Grade Rule
<input type="checkbox"/> Title	<input type="checkbox"/> Credit by Exam
<input type="checkbox"/> Title Abbreviation	<input type="checkbox"/> Course Fee
<input type="checkbox"/> Credit Hours	<input type="checkbox"/> Liberal Education Requirements (LER)
<input checked="" type="checkbox"/> Prerequisites	<input type="checkbox"/> Writing-Intensive
<input checked="" type="checkbox"/> Description	<input type="checkbox"/> Diversity
<input type="checkbox"/> Schedule Type	<input type="checkbox"/> Other


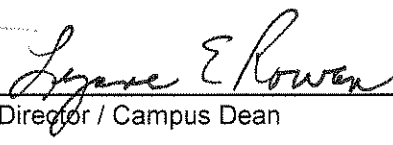
Describe impact on other policies, programs or procedures (e.g., encroachment and duplication issues; enrollment and staffing considerations; need, audience, prerequisites):

No impact on any other programs.

Units consulted (other departments, programs or campuses affected by this proposal):

School of Speech Pathology and Audiology, College of EHHS

REQUIRED ENDORSEMENTS

 _____ Department Chair / School Director / Campus Dean	 _____ 4/24/08
_____ College Dean	_____/_____/____
_____ Executive Dean of Regional Campuses	_____/_____/____
_____ Provost	_____/_____/____

BASIC DATA SHEET

All data entered below should reflect revised information.

Preparation Date **1-Aug-08** Requested Effective Term **Fall 2009**
 Course Subject **RIS** Course Number **44014**
 Course Title **Nuclear Medicine Physics and Instrumentation II**
 Title Abbreviation **NM Physics And Inst II**
 Maximum 30 spaces, with no punctuation or special characters (exception: forward slash "/" is allowed with no spaces before or after the slash)
 Slash Course **/ /** Cross-listed with
4/5, 4/5/7 or 6/7
 Minimum Credit **3** ☐ to ☐ or Maximum Credit **3** (e.g., 3 to 3 credits, 1 to 12 credits, 2 or 4 credits)
 Contact Hours ☒ Lecture Minimum Hours **3** ☐ to ☐ or Maximum Hours **3**
 Per Week ☐ Laboratory Minimum Hours ☐ to ☐ or Maximum Hours
☐ Other Minimum Hours ☐ to ☐ or Maximum Hours
 Contact hours should be per week.
 Repeat Status
 If repeats, course limit OR maximum hours
 Course Level **UG - Undergraduate**
 Grade Rule **B - Letter**
 Schedule Type(s) **LEC - Lecture**
 Course Attribute(s) **None**
 Credit By Exam **D - Credit by Exam as Approved by Department**

COMPLETE ONLY WHAT IS APPLICABLE TO THE COURSE

Prerequisite

Course(s) **RIS 44006**

Test Score(s)

Corequisite(s) **RIS 44010**

Registration is by permission only ☒ Yes ☐ No

Restrict Registration **RIS majors**

(e.g., VCD majors, East Liverpool Campus, sophomore level and above, graduate standing, BA-CHEM program)

COMPLETED BY PROVOST OFFICE

OBR Program Code _____

OBR Subsidy Code _____

OBR Course Level _____

CIP Code _____

Catalog Description **Explores the use and quality control of all nuclear medicine instrumentation, the function of radiation detection devices to include counting and imaging equipment, SPECT and PET instrumentation. Computer applications as related to nuclear medicine is addressed.**

Previous Title

Previous Subject

Previous Number

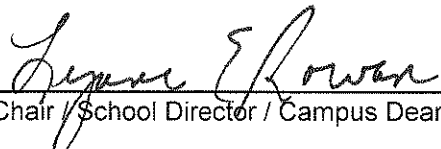
Content Outline (include contact hours for each section)

Contact Hours	Outline
7.50	Quality Control of Nuclear Medicine Instrumentation
6.00	Considerations of Counting and Imaging
6.00	Emission Computed Tomography (ECT)
10.50	Computer Science/Laboratory equipment
7.50	Principles of Single Photon Emission Computed Tomography Imaging (SPECT)
7.50	Fundamentals of Molecular Imaging with PET

45.00 Total Contact Hours

Textbook(s) Used in this Course	Nuclear Medicine and PET/CT Technology & Techniques
Writing Expectations	Quality Control Assignments
Instructor(s) Expected To Teach	Janet Berger
Instructor(s) Contributing to Content	

REQUIRED ENDORSEMENT



 Department Chair / School Director / Campus Dean

4/24/08

KENT STATE UNIVERSITY

CERTIFICATION OF CURRICULUM PROPOSAL

Preparation Date **1-Apr-08**

Curriculum Bulletin _____

Effective Date **Fall 2009**

Approved by EPC _____

Department **EH**
College **RC - Regional Campuses**
Proposal **Revise Course**
Course Subject **RIS** Course Number **44015**
Course Title **Nuclear Medicine Clinical Education III**
Minimum Credits **02** Maximum Credits **02**

Selected items are new

<input type="checkbox"/> Subject	<input type="checkbox"/> Cross-Listed / Slash
<input type="checkbox"/> Number	<input type="checkbox"/> Grade Rule
<input type="checkbox"/> Title	<input type="checkbox"/> Credit by Exam
<input type="checkbox"/> Title Abbreviation	<input type="checkbox"/> Course Fee
<input type="checkbox"/> Credit Hours	<input type="checkbox"/> Liberal Education Requirements (LER)
<input checked="" type="checkbox"/> Prerequisites	<input type="checkbox"/> Writing-Intensive
<input checked="" type="checkbox"/> Description	<input type="checkbox"/> Diversity
<input type="checkbox"/> Schedule Type	<input type="checkbox"/> Other

Describe impact on other policies, programs or procedures (e.g., encroachment and duplication issues; enrollment and staffing considerations; need, audience, prerequisites):

No impact on any other programs.

Units consulted (other departments, programs or campuses affected by this proposal):

School of Speech Pathology and Audiology, College of EHHS

REQUIRED ENDORSEMENTS

Department Chair / School Director / Campus Dean

4,24,08

College Dean

____/____/____

Executive Dean of Regional Campuses

____/____/____

Provost

____/____/____

BASIC DATA SHEET

All data entered below should reflect revised information.

Preparation Date **1-Apr-08** Requested Effective Term **Fall 2009**
 Course Subject **RIS** Course Number **44015**
 Course Title **Nuclear Medicine Clinical Education III**
 Title Abbreviation **Nm Clinical Ed Iii**
 Maximum 30 spaces, with no punctuation or special characters (exception: forward slash "/" is allowed with no spaces before or after the slash)
 Slash Course **/ /** Cross-listed with
4/5, 4/5/7 or 6/7
 Minimum Credit **02** ☐ to ☐ or Maximum Credit **02** (e.g., 3 to 3 credits, 1 to 12 credits, 2 or 4 credits)
 Contact Hours ☐ Lecture Minimum Hours ☐ to ☐ or Maximum Hours
 Per Week ☒ Laboratory Minimum Hours **02** ☐ to ☐ or Maximum Hours
☒ Other Minimum Hours **24** ☐ to ☐ or Maximum Hours
 Contact hours should be per week.
 Repeat Status **NR - Course may not be repeated**
 If repeats, course limit OR maximum hours
 Course Level **UG - Undergraduate**
 Grade Rule **B - Letter**
 Schedule Type(s) **LEC - Lecture**
 Course Attribute(s) **None**
 Credit By Exam **D - Credit by Exam as Approved by Department**

COMPLETE ONLY WHAT IS APPLICABLE TO THE COURSE

Prerequisite

Course(s) **RIS 44010**

Test Score(s)

Corequisite(s) **RIS 44016**

Registration is by permission only ☒ Yes ☐ No

Restrict Registration **RIS majors**

(e.g., VCD majors, East Liverpool Campus, sophomore level and above, graduate standing, BA-CHEM program)

COMPLETED BY PROVOST OFFICE

OBR Program Code _____

OBR Subsidy Code _____

OBR Course Level _____

CIP Code _____

Catalog Description **Clinical Education III will be instructed at both the clinical education sites and Salem Campus. Clinical III will emphasize clinical procedures covered in RIS 44012 (NM Procedures II) and RIS 44014 (NM Physics and Instrumentation II). Competency testing and proficiency testing continues.**

Previous Title

Previous Subject

Previous Number


Content Outline (include contact hours for each section)

Contact Hours	Outline
8.00	Instrumentation
8.00	Image evaluation
8.00	Nuclear Medicine Procedures
6.00	Radiopharmacy

30.0 Total Contact Hours

Textbook(s) Used in this Course	Nuclear Medicine Technology Procedures and Quick Reference
Writing Expectations	Clinical Journal/Clinical Notebook
Instructor(s) Expected To Teach	Debra Stull
Instructor(s) Contributing to Content	Janet Berger

REQUIRED ENDORSEMENT


 Department Chair / School Director / Campus Dean

4/24/08

KENT STATE UNIVERSITY

CERTIFICATION OF CURRICULUM PROPOSAL

Preparation Date **1-Apr-08**

Curriculum Bulletin _____

Effective Date **Fall 2009**

Approved by EPC _____

Department **EH**
College **RC - Regional Campuses**
Proposal **Revise Course**
Course Subject **RIS** Course Number **44016**
Course Title **Nuclear Medicine Procedures III**
Minimum Credits **03** Maximum Credits **03**

Selected items are new

<input type="checkbox"/> Subject	<input type="checkbox"/> Cross-Listed / Slash
<input type="checkbox"/> Number	<input type="checkbox"/> Grade Rule
<input type="checkbox"/> Title	<input type="checkbox"/> Credit by Exam
<input type="checkbox"/> Title Abbreviation	<input type="checkbox"/> Course Fee
<input type="checkbox"/> Credit Hours	<input type="checkbox"/> Liberal Education Requirements (LER)
<input checked="" type="checkbox"/> Prerequisites	<input type="checkbox"/> Writing-Intensive
<input checked="" type="checkbox"/> Description	<input type="checkbox"/> Diversity
<input type="checkbox"/> Schedule Type	<input type="checkbox"/> Other

Describe impact on other policies, programs or procedures (e.g., encroachment and duplication issues; enrollment and staffing considerations; need, audience, prerequisites):

No impact on any other programs.

Units consulted (other departments, programs or campuses affected by this proposal):

School of Speech Pathology and Audiology, College of EHHS

REQUIRED ENDORSEMENTS

Department Chair / School Director / Campus Dean

4/24/08

College Dean

____/____/____

Executive Dean of Regional Campuses

____/____/____

Provost

____/____/____

BASIC DATA SHEET

All data entered below should reflect revised information.

Preparation Date **1-Apr-08** Requested Effective Term **Fall 2009**
 Course Subject **RIS** Course Number **44016**
 Course Title **Nuclear Medicine Procedures III**
 Title Abbreviation **NM Procedures III**
 Maximum 30 spaces, with no punctuation or special characters (exception: forward slash "/" is allowed with no spaces before or after the slash)
 Slash Course **/ /** Cross-listed with
4/5, 4/5/7 or 6/7
 Minimum Credit **03** ☐ to ☐ or Maximum Credit **03** (e.g., 3 to 3 credits, 1 to 12 credits, 2 or 4 credits)
 Contact Hours ☒ Lecture Minimum Hours **03** ☐ to ☐ or Maximum Hours **03**
 Per Week ☐ Laboratory Minimum Hours ☐ to ☐ or Maximum Hours
☐ Other Minimum Hours ☐ to ☐ or Maximum Hours
 Contact hours should be per week.
 Repeat Status **NR - Course may not be repeated**
 If repeats, course limit OR maximum hours
 Course Level **UG - Undergraduate**
 Grade Rule **B - Letter**
 Schedule Type(s) **LEC - Lecture**
 Course Attribute(s) **None**
 Credit By Exam **D - Credit by Exam as Approved by Department**

COMPLETE ONLY WHAT IS APPLICABLE TO THE COURSE

Prerequisite

Course(s) **RIS 44012**

Test Score(s)

Corequisite(s) **RIS 44015**

Registration is by permission only ☒ Yes ☐ No

Restrict Registration **RIS majors**

(e.g., VCD majors, East Liverpool Campus, sophomore level and above, graduate standing, BA-CHEM program)

COMPLETED BY PROVOST OFFICE

OBR Program Code _____

OBR Subsidy Code _____

OBR Course Level _____

CIP Code _____

Catalog Description **Nuclear Medicine hematology and immunology, radionuclide therapy, pediatric imaging, and emerging technologies, including PET oncology imaging. Includes a review of all nuclear medicine procedures covered in RIS 44002 and RIS 44012.**

Previous Title

Previous Subject

Previous Number


Content Outline (include contact hours for each section)

Contact Hours	Outline
6.00	Radionuclide Therapy
6.00	Hematopoietic Syste
6.00	Pediatric Imaging
6.00	Clinical Oncology including PET
21.00	Review of Systems and Nuclear Medicine Procedures

45.00 Total Contact Hours

Textbook(s) Used in this Course **Review of Nuclear Medicine Technology**
 Writing Expectations **None**
 Instructor(s) Expected To Teach **Janet Berger**
 Instructor(s) Contributing to Content

REQUIRED ENDORSEMENT



 Department Chair / School Director / Campus Dean

4,24,08

Title

Revision of courses offered in the Associate of Applied Science in Radiologic Technology, Associate of Technical Study in Radiology Management Technology, and the Bachelor of Radiologic and Imaging Sciences Technology degree

Subject Specifications

The intent of this proposal is to revise courses in Radiologic Technology (RADT) and Radiologic and Imaging Sciences (RIS) majors.

Background Information

In 2007, many changes were made in the Associate of Applied Science in Radiologic Technology and the Bachelor of Radiologic and Imaging Sciences Technology degree. Those changes have created the need to alter pre-requisites in some courses because it is affecting Banner and student registration. Because of these changes, some course descriptions were updated to comply with the national curriculum for radiology. MATH 12001 should be removed as a choice from RADT Associate of Technical Study: Radiologic Technology Management.

Alternative and Consequences

No alternative

Specific Recommendations

Change in Course Description:

RADT 14000-Introduction to Radiologic Technology

- Change delineates lecture, lab and clinical hours

Change in Pre-requisite and Course Descriptions

RADT 14004-Radiologic Physics

RADT 14010-Clinical Education I

RADT 14019-Radiographic Exposure and Imaging I

RADT 24001-Radiologic Pathology

RADT 24048-Radiographic Techniques

RIS 44002-NM Procedures I

RIS 44005-NM Clinical Education I

RIS 44006-NM Physics and Instrumentation I

RIS 44010-NM Clinical Education II

RIS 44012-NM Procedures II

RIS 44014-NM Physics and Instrumentation II

RIS 44015-NM Clinical Education III

RIS 44016-NM Procedures III

RIS 44017-NM Radiation Safety

RIS 44020-NM Clinical Education IV

Change in Pre-requisite

RIS 34065 Ultrasound Clinical Education III

RIS 44083 Pathophysiology for Medical Imaging

MATH 12001-Algebra & Trigonometry

For the Associate of Technical Study: Radiology Department Management Technology degree, delete MATH 12001 Algebra & Trigonometry as a choice of math.

Inactivate RADT 24000 Medical Terminology course (2 hr)

Students currently take HED 14020 Medical Terminology for Radiologic Technology. Course has not been offered in many years and should be inactivated.

Program Assessment

The changes do not alter the outcome assessment program for these majors.

Timetable and Actions Required

April 22, 2008: Review by the School of Speech Pathology and Audiology FC meeting

May 2, 2008: Review by the UC of the College of EHHS

Fall 2008: Review by EPC

KENT STATE UNIVERSITY

CERTIFICATION OF CURRICULUM PROPOSAL

Preparation Date **11-Apr-08**

Curriculum Bulletin _____

Effective Date **Fall 2009**

Approved by EPC _____

Department **EH**
College **RC - Regional Campuses**
Proposal **Revise Course**
Course Subject **RADT** Course Number **14000**
Course Title **Introduction to Radiologic Technology**
Minimum Credits **3** Maximum Credits **03**

Selected items are new

<input type="checkbox"/> Subject	<input type="checkbox"/> Cross-Listed / Slash
<input type="checkbox"/> Number	<input type="checkbox"/> Grade Rule
<input type="checkbox"/> Title	<input type="checkbox"/> Credit by Exam
<input type="checkbox"/> Title Abbreviation	<input type="checkbox"/> Course Fee
<input type="checkbox"/> Credit Hours	<input type="checkbox"/> Liberal Education Requirements (LER)
<input type="checkbox"/> Prerequisites	<input type="checkbox"/> Writing-Intensive
<input checked="" type="checkbox"/> Description	<input type="checkbox"/> Diversity
<input checked="" type="checkbox"/> Schedule Type	<input type="checkbox"/> Other


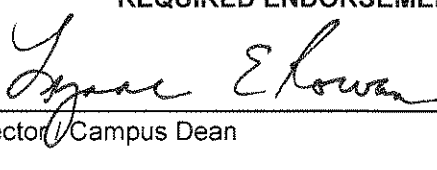
Describe impact on other policies, programs or procedures (e.g., encroachment and duplication issues; enrollment and staffing considerations; need, audience, prerequisites):

Impacts only Radiologic Technology Programs at Ashtabula and Salem Campus

Units consulted (other departments, programs or campuses affected by this proposal):

School of Speech Pathology and Audiology and College of EHHS

REQUIRED ENDORSEMENTS

Department Chair / School Director / Campus Dean

4, 24, 08

College Dean

____/____/____

Executive Dean of Regional Campuses

____/____/____

Provost

____/____/____

BASIC DATA SHEET

All data entered below should reflect revised information.

Preparation Date **11-Apr-08** Requested Effective Term **Fall 2009**
 Course Subject **RADT** Course Number **14000**
 Course Title **Introduction to Radiologic Technology**
 Title Abbreviation **Intro To Radiologic Technology**
 Maximum 30 spaces, with no punctuation or special characters (exception: forward slash "/" is allowed with no spaces before or after the slash)
 Slash Course **/ /** Cross-listed with
4/5, 4/5/7 or 6/7
 Minimum Credit **3** ☒ to ☐ or Maximum Credit **3** (e.g., 3 to 3 credits, 1 to 12 credits, 2 or 4 credits)
 Contact Hours ☒ Lecture Minimum Hours **15** ☐ to ☐ or Maximum Hours
 Per Week ☒ Laboratory Minimum Hours **5** ☐ to ☐ or Maximum Hours
☒ Other Minimum Hours **80** ☐ to ☐ or Maximum Hours
 Contact hours should be per week.
 Repeat Status **NR - Course may not be repeated**
 If repeats, course limit **OR** maximum hours
 Course Level **UG - Undergraduate**
 Grade Rule **B - Letter**
 Schedule Type(s) **LLB - Combined Lecture and Laboratory CLN - Clinic**
 Course Attribute(s) **None**
 Credit By Exam **D - Credit by Exam as Approved by Department**

COMPLETE ONLY WHAT IS APPLICABLE TO THE COURSE

Prerequisite

Course(s) **Program Admission**

Test Score(s)

Corequisite(s)

Registration is by permission only ☒ Yes ☐ No

Restrict Registration **RADT majors**

(e.g., VCD majors, East Liverpool Campus, sophomore level and above, graduate standing, BA-CHEM program)

COMPLETED BY PROVOST OFFICE

OBR Program Code _____

OBR Subsidy Code _____

OBR Course Level _____

CIP Code _____

Catalog Description **Introduction to radiologic technology program, general anatomy, introduction to radiologic procedures and positioning, imaging equipment, radiographic exposure, radiation protection, professional organizations and clinical education. Lecture and lab plus clinical hours based on program requirements.**

Previous Title

Previous Subject

Previous Number

Content Outline (include contact hours for each section)

Contact Hours	Outline
3.00	Introduction to Radiologic Technology program and handbook
1.00	Introduction to general human anatomy
4.00	Introduction to radiologic procedures and positioning
3.00	Introduction to radiographic equipment and imaging techniques
2.00	Introduction to radiation protection
1.00	Clinical survival skills
1.00	Radiology professional organizations
15.00	Total lecture hours
2.00	Radiographic procedures
2.00	Radiographic equipment
1.00	Clinical education primer
5.00	Total lab hours
60.00	Minimum clinical education hours

100.00 Total Contact Hours

Textbook(s) Used in this Course	Introduction to Radiologic Technology
Writing Expectations	Short essays
Instructor(s) Expected To Teach	Jan Gibson, Margie Iagulli, Jackie Hammonds
Instructor(s) Contributing to Content	Clinical Coordinators

REQUIRED ENDORSEMENT


 Department Chair / School Director / Campus Dean

4,24,08

KENT STATE UNIVERSITY

CERTIFICATION OF CURRICULUM PROPOSAL

Preparation Date **11-Apr-08**

Curriculum Bulletin _____

Effective Date **Fall 2009**

Approved by EPC _____

Department **EH**
College **RC - Regional Campuses**
Proposal **Revise Course**
Course Subject **RADT** Course Number **14004**
Course Title **Radiologic Physics**
Minimum Credits **4** Maximum Credits **4**

Selected items are new	<input type="checkbox"/> Subject	<input type="checkbox"/> Cross-Listed / Slash
	<input type="checkbox"/> Number	<input type="checkbox"/> Grade Rule
	<input type="checkbox"/> Title	<input type="checkbox"/> Credit by Exam
	<input type="checkbox"/> Title Abbreviation	<input type="checkbox"/> Course Fee
	<input type="checkbox"/> Credit Hours	<input type="checkbox"/> Liberal Education Requirements (LER)
	<input checked="" type="checkbox"/> Prerequisites	<input type="checkbox"/> Writing-Intensive
	<input checked="" type="checkbox"/> Description	<input type="checkbox"/> Diversity
	<input type="checkbox"/> Schedule Type	<input type="checkbox"/> Other


Describe impact on other policies, programs or procedures (e.g., encroachment and duplication issues; enrollment and staffing considerations; need, audience, prerequisites):

Affects radiologic technology programs at Ashtabula and Salem campuses

Units consulted (other departments, programs or campuses affected by this proposal):

School of Speech Pathology and Audiology and College of EHHS

REQUIRED ENDORSEMENTS



Department Chair / School Director / Campus Dean

4 / 24 / 08

College Dean

____ / ____ / ____

Executive Dean of Regional Campuses

____ / ____ / ____

Provost

____ / ____ / ____

BASIC DATA SHEET

All data entered below should reflect revised information.

Preparation Date **11-Apr-08** Requested Effective Term **Fall 2009**
 Course Subject **RADT** Course Number **14004**
 Course Title **Radiologic Physics**
 Title Abbreviation **Radiologic Physics**
 Maximum 30 spaces, with no punctuation or special characters (exception: forward slash "/" is allowed with no spaces before or after the slash)
 Slash Course **/ /** Cross-listed with
4/5, 4/5/7 or 6/7
 Minimum Credit **04** ☐ to ☐ or Maximum Credit **04** (e.g., 3 to 3 credits, 1 to 12 credits, 2 or 4 credits)
 Contact Hours ☒ Lecture Minimum Hours **04** ☐ to ☐ or Maximum Hours **04**
 Per Week ☐ Laboratory Minimum Hours ☐ to ☐ or Maximum Hours
☐ Other Minimum Hours ☐ to ☐ or Maximum Hours
 Contact hours should be per week.
 Repeat Status **NR - Course may not be repeated**
 If repeats, course limit **OR** maximum hours
 Course Level **UG - Undergraduate**
 Grade Rule **B - Letter**
 Schedule Type(s) **LEC - Lecture**
 Course Attribute(s) **None**
 Credit By Exam **D - Credit by Exam as Approved by Department**

COMPLETE ONLY WHAT IS APPLICABLE TO THE COURSE

Prerequisite

Course(s) **RADT 14019**

Test Score(s)

Corequisite(s) **RADT 24024**

Registration is by permission only ☒ Yes ☐ No

Restrict Registration **RADT majors**

(e.g., VCD majors, East Liverpool Campus, sophomore level and above, graduate standing, BA-CHEM program)

COMPLETED BY PROVOST OFFICE

OBR Program Code _____

OBR Subsidy Code _____

OBR Course Level _____

CIP Code _____

Catalog Description **Introduction to general physics, units and measurement, atomic structure, electricity, magnetism, electromagnetism, x-ray circuitry equipment, x-ray production.**

Previous Title

Previous Subject

Previous Number

Content Outline (include contact hours for each section)

Contact Hours	Outline
2.00	Introduction to general physics
5.00	Atomic structure
6.00	Electromagnetic Spectrum, Electromagnetic wave characteristics
9.00	Electrostatics and electrodynamics
2.00	Magnetism
9.00	Electromagnetism, Generators, Motors
9.00	Voltage Selection & Production, Variable Resistors, Rectification
9.00	X-ray Production
9.00	X-ray Circuitry

60.00 Total Contact Hours

Textbook(s) Used in this Course	Radiographic Imaging
Writing Expectations	none
Instructor(s) Expected To Teach	RADT program personnel
Instructor(s) Contributing to Content	Jan Gibson

REQUIRED ENDORSEMENT


 Department Chair / School Director / Campus Dean

4/24/08

KENT STATE UNIVERSITY

CERTIFICATION OF CURRICULUM PROPOSAL

Preparation Date **11-Apr-08**

Curriculum Bulletin _____

Effective Date **Fall 2009**

Approved by EPC _____

Department **EH**
College **RC - Regional Campuses**
Proposal **Revise Course**
Course Subject **RADT** Course Number **14010**
Course Title **Clinical Education I**
Minimum Credits **1** Maximum Credits **1**

Selected items are new

<input type="checkbox"/> Subject	<input type="checkbox"/> Cross-Listed / Slash
<input type="checkbox"/> Number	<input type="checkbox"/> Grade Rule
<input type="checkbox"/> Title	<input type="checkbox"/> Credit by Exam
<input type="checkbox"/> Title Abbreviation	<input type="checkbox"/> Course Fee
<input type="checkbox"/> Credit Hours	<input type="checkbox"/> Liberal Education Requirements (LER)
<input checked="" type="checkbox"/> Prerequisites	<input type="checkbox"/> Writing-Intensive
<input type="checkbox"/> Description	<input type="checkbox"/> Diversity
<input type="checkbox"/> Schedule Type	<input type="checkbox"/> Other

Describe impact on other policies, programs or procedures (e.g., encroachment and duplication issues; enrollment and staffing considerations; need, audience, prerequisites):

Affects radiologic technology programs at Ashtabula and Salem campuses

Units consulted (other departments, programs or campuses affected by this proposal):

School of Speech Pathology and Audiology, College of EHHS

REQUIRED ENDORSEMENTS

Department Chair / School Director / Campus Dean

4,24,08

College Dean

____/____/____

Executive Dean of Regional Campuses

____/____/____

Provost

____/____/____

BASIC DATA SHEET

All data entered below should reflect revised information.

Preparation Date **11-Apr-08** Requested Effective Term **Fall 2009**
 Course Subject **RADT** Course Number **14010**
 Course Title **Clinical Education I**
 Title Abbreviation **Clinical Education I**
 Maximum 30 spaces, with no punctuation or special characters (exception: forward slash "/" is allowed with no spaces before or after the slash)
 Slash Course **/ /** Cross-listed with
4/5, 4/5/7 or 6/7
 Minimum Credit **01** ☐ to ☐ or Maximum Credit **01** (e.g., 3 to 3 credits, 1 to 12 credits, 2 or 4 credits)
 Contact Hours ☐ Lecture Minimum Hours ☐ to ☐ or Maximum Hours
 Per Week ☐ Laboratory Minimum Hours ☐ to ☐ or Maximum Hours
☒ Other Minimum Hours **1** ☐ to ☐ or Maximum Hours **01**
 Contact hours should be per week.
 Repeat Status **NR - Course may not be repeated**
 If repeats, course limit **OR** maximum hours
 Course Level **UG - Undergraduate**
 Grade Rule **C - Letter and In Progress (IP)**
 Schedule Type(s) **CLN - Clinic**
 Course Attribute(s) **None**
 Credit By Exam **D - Credit by Exam as Approved by Department**

COMPLETE ONLY WHAT IS APPLICABLE TO THE COURSE

Prerequisite

Course(s) **RADT 14001**

Test Score(s)

Corequisite(s) **RADT 14020**

Registration is by permission only ☒ Yes ☐ No

Restrict Registration **RADT Majors**

(e.g., VCD majors, East Liverpool Campus, sophomore level and above, graduate standing, BA-CHEM program)

COMPLETED BY PROVOST OFFICE

OBR Program Code _____

OBR Subsidy Code _____

OBR Course Level _____

CIP Code _____

Catalog Description **Supervised experience and observation with emphasis on *clinical* practice of basic skills of radiologic technology and the exams covered in Radiographic Procedures I. Competency testing begins. Students assigned to clinical education setting 24 hours per week.**

Previous Title

Previous Subject

Previous Number

Content Outline (include contact hours for each section)

Contact
Hours

Outline

15.00 Clinical practice and competency testing**15.00 Total Contact Hours**

Textbook(s) Used in this Course

None

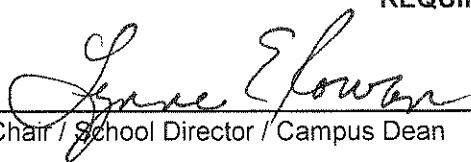
Writing Expectations

None

Instructor(s) Expected To Teach

Gail Schroeder and Carol Kuner

Instructor(s) Contributing to Content

Jan Gibson**REQUIRED ENDORSEMENT**


 Department Chair / School Director / Campus Dean

4/24/08

KENT STATE UNIVERSITY

CERTIFICATION OF CURRICULUM PROPOSAL

Preparation Date **11-Apr-08**

Curriculum Bulletin _____

Effective Date **Fall 2009**

Approved by EPC _____

Department **EH**
College **RC - Regional Campuses**
Proposal **Revise Course**
Course Subject **RADT** Course Number **14019**
Course Title **Radiographic Exposure and Imaging I**
Minimum Credits **3** Maximum Credits **3**

Selected items are new

<input type="checkbox"/> Subject	<input type="checkbox"/> Cross-Listed / Slash
<input type="checkbox"/> Number	<input type="checkbox"/> Grade Rule
<input type="checkbox"/> Title	<input type="checkbox"/> Credit by Exam
<input type="checkbox"/> Title Abbreviation	<input type="checkbox"/> Course Fee
<input type="checkbox"/> Credit Hours	<input type="checkbox"/> Liberal Education Requirements (LER)
<input checked="" type="checkbox"/> Prerequisites	<input type="checkbox"/> Writing-Intensive
<input type="checkbox"/> Description	<input type="checkbox"/> Diversity
<input type="checkbox"/> Schedule Type	<input type="checkbox"/> Other


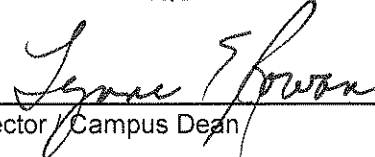
Describe impact on other policies, programs or procedures (e.g., encroachment and duplication issues; enrollment and staffing considerations; need, audience, prerequisites):

Affects radiologic technology programs at Ashtabula and Salem campuses

Units consulted (other departments, programs or campuses affected by this proposal):

Radiologic Technology Program at Ashtabula Campus, School of Speech Pathology and Audiology and College of EHHS.

REQUIRED ENDORSEMENTS

Department Chair / School Director / Campus Dean

4/24/08

College Dean

____/____/____

Executive Dean of Regional Campuses

____/____/____

Provost

____/____/____

BASIC DATA SHEET

All data entered below should reflect revised information.

Preparation Date **11-Apr-08** Requested Effective Term **Fall 2009**
 Course Subject **RADT** Course Number **14019**
 Course Title **Radiographic Exposure and Imaging I**
 Title Abbreviation **Rad Exposure And Imaging I**
 Maximum 30 spaces, with no punctuation or special characters (exception: forward slash "/" is allowed with no spaces before or after the slash)
 Slash Course **/ /** Cross-listed with
4/5, 4/5/7 or 6/7
 Minimum Credit **3** ☐ to ☐ or Maximum Credit **3** (e.g., 3 to 3 credits, 1 to 12 credits, 2 or 4 credits)
 Contact Hours ☒ Lecture Minimum Hours **3** ☐ to ☐ or Maximum Hours **3**
 Per Week ☐ Laboratory Minimum Hours ☐ to ☐ or Maximum Hours
☐ Other Minimum Hours ☐ to ☐ or Maximum Hours
 Contact hours should be per week.
 Repeat Status **NR - Course may not be repeated**
 If repeats, course limit OR maximum hours
 Course Level **UG - Undergraduate**
 Grade Rule **B - Letter**
 Schedule Type(s) **LEC - Lecture**
 Course Attribute(s) **None**
 Credit By Exam **D - Credit by Exam as Approved by Department**

COMPLETE ONLY WHAT IS APPLICABLE TO THE COURSE

Prerequisite

Course(s) **RADT 14000**

Test Score(s)

Corequisite(s) **RADT 14010**

Registration is by permission only ☒ Yes ☐ No

Restrict Registration **RADT majors**

(e.g., VCD majors, East Liverpool Campus, sophomore level and above, graduate standing, BA-CHEM program)

COMPLETED BY PROVOST OFFICE

OBR Program Code _____

OBR Subsidy Code _____

OBR Course Level _____

CIP Code _____

Catalog Description **Equipment used in medical imaging including radiographic x-ray tubes, filtration, beam restrictors, grids, imaging detectors used in intensifying screens and digital imaging, radiographic film and automatic processing.**

Previous Title **same**

Previous Subject **same** Previous Number **0**

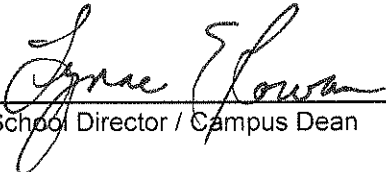
Content Outline (include contact hours for each section)

Contact Hours	Outline
3.00	Overview of x-ray circuitry and equipment
3.00	Introduction to Computers as used in medical imaging
3.00	X-ray Tube and Production of X-rays
3.00	Filtration
3.00	Beam Restrictors
6.00	Grids
6.00	Intensifying screens
6.00	Computed radiography equipment
3.00	Digital radiography equipment
3.00	Radiographic Film
6.00	Automatic Processing of film

45 Total Contact Hours

Textbook(s) Used in this Course	Radiographic Imaging
Writing Expectations	Research Paper
Instructor(s) Expected To Teach	Jan Gibson and Jackie Hammonds
Instructor(s) Contributing to Content	

REQUIRED ENDORSEMENT



 Department Chair / School Director / Campus Dean

4/24/08

KENT STATE UNIVERSITY

CERTIFICATION OF CURRICULUM PROPOSAL

Preparation Date **11-Apr-08**

Curriculum Bulletin _____

Effective Date **Fall 2009**

Approved by EPC _____

Department **EH**
College **RC - Regional Campuses**
Proposal **Revise Course**
Course Subject **RADT** Course Number **24001**
Course Title **Radiologic Pathology**
Minimum Credits **3** Maximum Credits **3**

Selected items are new

<input type="checkbox"/> Subject	<input type="checkbox"/> Cross-Listed / Slash
<input type="checkbox"/> Number	<input type="checkbox"/> Grade Rule
<input type="checkbox"/> Title	<input type="checkbox"/> Credit by Exam
<input type="checkbox"/> Title Abbreviation	<input type="checkbox"/> Course Fee
<input type="checkbox"/> Credit Hours	<input type="checkbox"/> Liberal Education Requirements (LER)
<input checked="" type="checkbox"/> Prerequisites	<input type="checkbox"/> Writing-Intensive
<input checked="" type="checkbox"/> Description	<input type="checkbox"/> Diversity
<input type="checkbox"/> Schedule Type	<input type="checkbox"/> Other

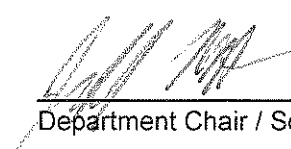
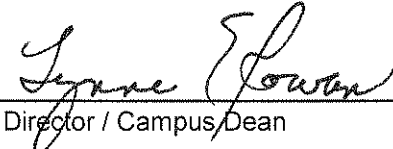
Describe impact on other policies, programs or procedures (e.g., encroachment and duplication issues; enrollment and staffing considerations; need, audience, prerequisites):

Affects radiologic technology programs at Ashtabula and Salem campuses

Units consulted (other departments, programs or campuses affected by this proposal):

School of Speech Pathology and Audiology and College of EHHS

REQUIRED ENDORSEMENTS

 _____ Department Chair / School Director / Campus Dean	 _____ Lynne E. Lowan	<u>4/24/08</u>
_____ College Dean		<u> / / </u>
_____ Executive Dean of Regional Campuses		<u> / / </u>
_____ Provost		<u> / / </u>

BASIC DATA SHEET

All data entered below should reflect revised information.

Preparation Date **11-Apr-08** Requested Effective Term **Fall 2009**
 Course Subject **RADT** Course Number **24001**
 Course Title **Radiologic Pathology**
 Title Abbreviation **Radiologic Pathology**
 Maximum 30 spaces, with no punctuation or special characters (exception: forward slash "/" is allowed with no spaces before or after the slash)
 Slash Course **/ /** Cross-listed with
4/5, 4/5/7 or 6/7
 Minimum Credit **3** ☐ to ☐ or Maximum Credit **3** (e.g., 3 to 3 credits, 1 to 12 credits, 2 or 4 credits)
 Contact Hours ☒ Lecture Minimum Hours **3** ☐ to ☐ or Maximum Hours **3**
 Per Week ☐ Laboratory Minimum Hours ☐ to ☐ or Maximum Hours
☐ Other Minimum Hours ☐ to ☐ or Maximum Hours
 Contact hours should be per week.
 Repeat Status **NR - Course may not be repeated**
 If repeats, course limit **OR** maximum hours
 Course Level **UG - Undergraduate**
 Grade Rule **B - Letter**
 Schedule Type(s) **LEC - Lecture**
 Course Attribute(s) **None**
 Credit By Exam **D - Credit by Exam as Approved by Department**

COMPLETE ONLY WHAT IS APPLICABLE TO THE COURSE

Prerequisite

Course(s) **BSCI 11010, 11020, HED 14020, RADT 24024**

Test Score(s)

Corequisite(s) **RADT 24011**

Registration is by permission only ☒ Yes ☐ No

Restrict Registration **RADT majors**

(e.g., VCD majors, East Liverpool Campus, sophomore level and above, graduate standing, BA-CHEM program)

COMPLETED BY PROVOST OFFICE

OBR Program Code _____

OBR Subsidy Code _____

OBR Course Level _____

CIP Code _____

Catalog Description **Introduction to disease and injury states and their application to radiologic imaging. Each anatomical system and radiologic imaging modality is discussed.**

Previous Title

Previous Subject

Previous Number

Content Outline (include contact hours for each section)

Contact Hours	Outline
6.00	Introduction to pathology, processes and modality information
6.00	Skeletal system
6.00	Digestive system and hepatobiliary systems
3.00	Urinary system
6.00	Reproductive systems
3.00	Respiratory system
6.00	Cardiovascular and lymphatic system
9.00	Student presentations of various pathologies and imaging modalities

45.00 Total Contact Hours

Textbook(s) Used in this Course	Radiologic Pathology
Writing Expectations	Research paper
Instructor(s) Expected To Teach	RADT program personnel
Instructor(s) Contributing to Content	Margie Iagulli

REQUIRED ENDORSEMENT



 Department Chair / School Director / Campus Dean

4/24/08

KENT STATE UNIVERSITY

CERTIFICATION OF CURRICULUM PROPOSAL

Preparation Date **11-Apr-08**

Curriculum Bulletin _____

Effective Date **Fall 2009**

Approved by EPC _____

Department **EH**
College **RC - Regional Campuses**
Proposal **Revise Course**
Course Subject **RADT** Course Number **24048**
Course Title **Radiographic Techniques**
Minimum Credits **03** Maximum Credits **03**

Selected items are new

<input type="checkbox"/> Subject	<input type="checkbox"/> Cross-Listed / Slash
<input type="checkbox"/> Number	<input type="checkbox"/> Grade Rule
<input type="checkbox"/> Title	<input type="checkbox"/> Credit by Exam
<input type="checkbox"/> Title Abbreviation	<input type="checkbox"/> Course Fee
<input type="checkbox"/> Credit Hours	<input type="checkbox"/> Liberal Education Requirements (LER)
<input checked="" type="checkbox"/> Prerequisites	<input type="checkbox"/> Writing-Intensive
<input checked="" type="checkbox"/> Description	<input type="checkbox"/> Diversity
<input type="checkbox"/> Schedule Type	<input type="checkbox"/> Other

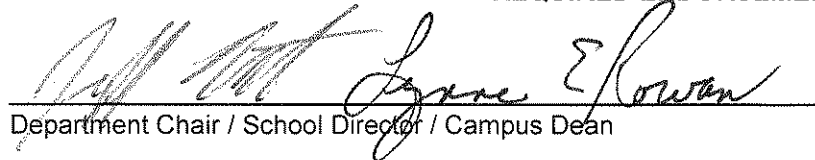
Describe impact on other policies, programs or procedures (e.g., encroachment and duplication issues; enrollment and staffing considerations; need, audience, prerequisites):

Impacts Radiologic Technology programs at Ashtabula and Salem campuses only.

Units consulted (other departments, programs or campuses affected by this proposal):

School of Speech Pathology and Audiology, College of EHHS

REQUIRED ENDORSEMENTS



Department Chair / School Director / Campus Dean

4, 24, 08

College Dean

____/____/____

Executive Dean of Regional Campuses

____/____/____

Provost

____/____/____

BASIC DATA SHEET

All data entered below should reflect revised information.

Preparation Date **17-Mar-08** Requested Effective Term **Fall 2009**
 Course Subject **RADT** Course Number **24048**
 Course Title **Radiologic Techniques**
 Title Abbreviation **Radiologic Techniques**
 Maximum 30 spaces, with no punctuation or special characters (exception: forward slash "/" is allowed with no spaces before or after the slash)
 Slash Course **/ /** Cross-listed with
4/5, 4/5/7 or 6/7
 Minimum Credit **3** ☐ to ☐ or Maximum Credit **03** (e.g., 3 to 3 credits, 1 to 12 credits, 2 or 4 credits)
 Contact Hours ☒ Lecture Minimum Hours **03** ☐ to ☐ or Maximum Hours **03**
 Per Week ☐ Laboratory Minimum Hours ☐ to ☐ or Maximum Hours
☐ Other Minimum Hours ☐ to ☐ or Maximum Hours
 Contact hours should be per week.
 Repeat Status **RP - Course may be repeated**
 If repeats, course limit **1** OR maximum hours
 Course Level **UG - Undergraduate**
 Grade Rule **B - Letter**
 Schedule Type(s) **LEC - Lecture**
 Course Attribute(s) **None**
 Credit By Exam **D - Credit by Exam as Approved by Department**

COMPLETE ONLY WHAT IS APPLICABLE TO THE COURSE

Prerequisite

Course(s) **BSCI 11020,RADT 14002,14004,14022,24002,24020**

Test Score(s)

Corequisite(s)

Registration is by permission only ☒ Yes ☐ No

Restrict Registration **Ashtabula and Salem campus only**

(e.g., VCD majors, East Liverpool Campus, sophomore level and above, graduate standing, BA-CHEM program)

COMPLETED BY PROVOST OFFICE

OBR Program Code _____

OBR Subsidy Code _____

OBR Course Level _____

CIP Code _____

Catalog Description **Review of radiologic technology to include patient care, anatomy and physiology, radiologic procedures, equipment and image production, radiologic physics, and radiation protection in preparation for the radiography certification exam.**

Previous Title

Previous Subject

Previous Number


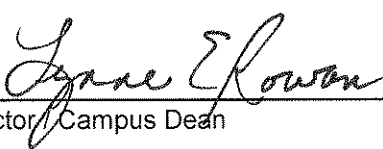
Content Outline (include contact hours for each section)

Contact Hours	Outline
3.00	Pre-test
3.00	Review of patient care
9.00	Review of radiographic anatomy and procedures
6.00	Review of image production
6.00	Review of equipment operation and maintenance
3.00	Review of radiobiology and radiation protection
12.00	Simulated exams
3.00	Graduate assessment exam and its review

45.00 Total Contact Hours

Textbook(s) Used in this Course	Comprehensive Review of Radiography
Writing Expectations	None
Instructor(s) Expected To Teach	Jan Gibson, Margie Iagulli, Jackie Hammonds
Instructor(s) Contributing to Content	Jan Gibson

REQUIRED ENDORSEMENT

 Department Chair / School Director / Campus Dean

4/24/08

KENT STATE UNIVERSITY

CERTIFICATION OF CURRICULUM PROPOSAL

Preparation Date **11-Apr-08**

Curriculum Bulletin _____

Effective Date **Fall 2009**

Approved by EPC _____

Department **EH**
College **RC - Regional Campuses**
Proposal **Revise Course**
Course Subject **RIS** Course Number **34065**
Course Title **Ultrasound Clinical Education III**
Minimum Credits **02** Maximum Credits **02**

Selected items are new	<input type="checkbox"/> Subject	<input type="checkbox"/> Cross-Listed / Slash
	<input type="checkbox"/> Number	<input checked="" type="checkbox"/> Grade Rule
	<input type="checkbox"/> Title	<input type="checkbox"/> Credit by Exam
	<input type="checkbox"/> Title Abbreviation	<input type="checkbox"/> Course Fee
	<input type="checkbox"/> Credit Hours	<input type="checkbox"/> Liberal Education Requirements (LER)
	<input checked="" type="checkbox"/> Prerequisites	<input type="checkbox"/> Writing-Intensive
	<input type="checkbox"/> Description	<input type="checkbox"/> Diversity
	<input checked="" type="checkbox"/> Schedule Type	<input type="checkbox"/> Other

Describe impact on other policies, programs or procedures (e.g., encroachment and duplication issues; enrollment and staffing considerations; need, audience, prerequisites):

No impact on any other programs.

Units consulted (other departments, programs or campuses affected by this proposal):

School of Speech Pathology and Audiology, College of EHHS

REQUIRED ENDORSEMENTS



Department Chair / School Director / Campus Dean

4/24/08

College Dean

____/____/____

Executive Dean of Regional Campuses

____/____/____

Provost

____/____/____

BASIC DATA SHEET

All data entered below should reflect revised information.

Preparation Date **11-Apr-08** Requested Effective Term **Fall 2009**
 Course Subject **RIS** Course Number **34065**
 Course Title **Ultrasound Clinical Education III**
 Title Abbreviation **Ultrasound Clinical Ed. III**
 Maximum 30 spaces, with no punctuation or special characters (exception: forward slash "/" is allowed with no spaces before or after the slash)
 Slash Course **/ /** Cross-listed with
4/5, 4/5/7 or 6/7
 Minimum Credit ☐ to ☐ or Maximum Credit (e.g., 3 to 3 credits, 1 to 12 credits, 2 or 4 credits)
 Contact Hours ☐ Lecture Minimum Hours ☐ to ☐ or Maximum Hours
 Per Week ☐ Laboratory Minimum Hours ☐ to ☐ or Maximum Hours
☐ Other Minimum Hours ☐ to ☐ or Maximum Hours
 Contact hours should be per week.
 Repeat Status **NR - Course may not be repeated**
 If repeats, course limit OR maximum hours
 Course Level **UG - Undergraduate**
 Grade Rule **C - Letter and In Progress (IP)**
 Schedule Type(s) **LAB - Laboratory CLN - Clinic**
 Course Attribute(s) **None**
 Credit By Exam **D - Credit by Exam as Approved by Department**

COMPLETE ONLY WHAT IS APPLICABLE TO THE COURSE

Prerequisite

Course(s) **RIS 34055**

Test Score(s)

Corequisite(s) **44072**

Registration is by permission only ☒ Yes ☐ No

Restrict Registration **RIS majors**

(e.g., VCD majors, East Liverpool Campus, sophomore level and above, graduate standing, BA-CHEM program)

COMPLETED BY PROVOST OFFICE

OBR Program Code _____

OBR Subsidy Code _____

OBR Course Level _____

CIP Code _____

Catalog Description **Provides clinical education and experience at a clinical site to allow students the opportunity to practice skills necessary to obtain quality sonographic images, to alter protocols based on patients and to identify image quality problems.**

Previous Title

Previous Subject

Previous Number

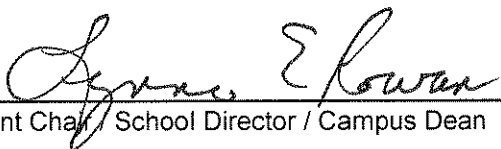
Content Outline (include contact hours for each section)

Contact Hours	Outline
9.00	Instrumentation
9.00	Scanning techniques
9.00	Examination protocols
9.00	Clinical objectives
9.00	Competency evaluation

45.00 Total Contact Hours

Textbook(s) Used in this Course	Sonographic Techniques in Obstetrics-Gynecology
Writing Expectations	Journal entries
Instructor(s) Expected To Teach	Sheri Tilton
Instructor(s) Contributing to Content	Cynthia Peterson

REQUIRED ENDORSEMENT


 Department Chair / School Director / Campus Dean

4,24,08

KENT STATE UNIVERSITY

CERTIFICATION OF CURRICULUM PROPOSAL

Preparation Date **1-Apr-08**

Curriculum Bulletin _____

Effective Date **Fall 2009**

Approved by EPC _____

Department **EH**
College **RC - Regional Campuses**
Proposal **Revise Course**
Course Subject **RIS** Course Number **44017**
Course Title **Nuclear Medicine Radiation Safety**
Minimum Credits **03** Maximum Credits **03**

Selected items are new

<input type="checkbox"/> Subject	<input type="checkbox"/> Cross-Listed / Slash
<input type="checkbox"/> Number	<input type="checkbox"/> Grade Rule
<input type="checkbox"/> Title	<input type="checkbox"/> Credit by Exam
<input type="checkbox"/> Title Abbreviation	<input type="checkbox"/> Course Fee
<input type="checkbox"/> Credit Hours	<input type="checkbox"/> Liberal Education Requirements (LER)
<input checked="" type="checkbox"/> Prerequisites	<input type="checkbox"/> Writing-Intensive
<input checked="" type="checkbox"/> Description	<input type="checkbox"/> Diversity
<input type="checkbox"/> Schedule Type	<input type="checkbox"/> Other

Describe impact on other policies, programs or procedures (e.g., encroachment and duplication issues; enrollment and staffing considerations; need, audience, prerequisites):

No impact on any other programs.

Units consulted (other departments, programs or campuses affected by this proposal):

School of Speech Pathology and Audiology, College of EHHS

REQUIRED ENDORSEMENTS

Department Chair / School Director / Campus Dean

4,24,08

College Dean

____/____/____

Executive Dean of Regional Campuses

____/____/____

Provost

____/____/____

BASIC DATA SHEET

All data entered below should reflect revised information.

Preparation Date **1-Apr-08** Requested Effective Term **Fall 2009**
 Course Subject **RIS** Course Number **44017**
 Course Title **Nuclear Medicine Radiation Safety**
 Title Abbreviation **Nm Radiation Safety**
 Maximum 30 spaces, with no punctuation or special characters (exception: forward slash "/" is allowed with no spaces before or after the slash)
 Slash Course **/ /** Cross-listed with
4/5, 4/5/7 or 6/7
 Minimum Credit **03** ☐ to ☐ or Maximum Credit **03** (e.g., 3 to 3 credits, 1 to 12 credits, 2 or 4 credits)
 Contact Hours ☒ Lecture Minimum Hours **03** ☐ to ☐ or Maximum Hours **03**
 Per Week ☐ Laboratory Minimum Hours ☐ to ☐ or Maximum Hours
☐ Other Minimum Hours ☐ to ☐ or Maximum Hours
 Contact hours should be per week.
 Repeat Status **NR - Course may not be repeated**
 If repeats, course limit **OR** maximum hours
 Course Level **UG - Undergraduate**
 Grade Rule **B - Letter**
 Schedule Type(s) **LEC - Lecture**
 Course Attribute(s) **None**
 Credit By Exam **D - Credit by Exam as Approved by Department**

COMPLETE ONLY WHAT IS APPLICABLE TO THE COURSE

Prerequisite

Course(s) **RIS 44006**

Test Score(s)

Corequisite(s) **RIS 44014**

Registration is by permission only ☒ Yes ☐ No

Restrict Registration **RIS majors**

(e.g., VCD majors, East Liverpool Campus, sophomore level and above, graduate standing, BA-CHEM program)

COMPLETED BY PROVOST OFFICE

OBR Program Code _____

OBR Subsidy Code _____

OBR Course Level _____

CIP Code _____

Catalog Description **Includes the units of radiation measurement, radiation exposure dose limits, radiation safety regulations and monitoring devices, safe handling and contamination control of radioactive materials. Also presented are biologic effects of radiation, patient dosimetry, NRC/ODH licensing requirements, rules and regulations, including Title 10CFR Parts 19, 20, and 35.**

Previous Title

Previous Subject

Previous Number


Content Outline (include contact hours for each section)

Contact Hours	Outline
6.00	Review of Nuclear Medicine Physics
12.00	Radiation Safety in Nuclear Medicine
6.00	Biologic Effect of Radiation and Dosimetry
18.00	NRC Rules and Regulations
3.00	Nuclear Reactor and Radiation Accidents

45.00 Total Contact Hours

Textbook(s) Used in this Course	Nuclear Medicine Technology and PET/CT Techniques
Writing Expectations	Radiation Hormesis Research Paper
Instructor(s) Expected To Teach	Janet Berger
Instructor(s) Contributing to Content	

REQUIRED ENDORSEMENT


 Department Chair / School Director / Campus Dean

4/24/08

KENT STATE UNIVERSITY

CERTIFICATION OF CURRICULUM PROPOSAL

Preparation Date **1-Apr-08**

Curriculum Bulletin _____

Effective Date **Fall 2009**

Approved by EPC _____

Department **EH**
College **RC - Regional Campuses**
Proposal **Revise Course**
Course Subject **RIS** Course Number **44020**
Course Title **Nuclear Medicine Clinical Education IV**
Minimum Credits **02** Maximum Credits **02**

Selected items are new	<input type="checkbox"/> Subject	<input type="checkbox"/> Cross-Listed / Slash
	<input type="checkbox"/> Number	<input type="checkbox"/> Grade Rule
	<input type="checkbox"/> Title	<input type="checkbox"/> Credit by Exam
	<input type="checkbox"/> Title Abbreviation	<input type="checkbox"/> Course Fee
	<input type="checkbox"/> Credit Hours	<input type="checkbox"/> Liberal Education Requirements (LER)
	<input checked="" type="checkbox"/> Prerequisites	<input type="checkbox"/> Writing-Intensive
	<input checked="" type="checkbox"/> Description	<input type="checkbox"/> Diversity
	<input type="checkbox"/> Schedule Type	<input type="checkbox"/> Other


Describe impact on other policies, programs or procedures (e.g., encroachment and duplication issues; enrollment and staffing considerations; need, audience, prerequisites):

No impact on any other programs.

Units consulted (other departments, programs or campuses affected by this proposal):

School of Speech Pathology and Audiology, College of EHHS

REQUIRED ENDORSEMENTS



Department Chair / School Director / Campus Dean

4, 24, 08

College Dean

____/____/____

Executive Dean of Regional Campuses

____/____/____

Provost

____/____/____

BASIC DATA SHEET

All data entered below should reflect revised information.

Preparation Date **1-Apr-08** Requested Effective Term **Fall 2009**
 Course Subject **RIS** Course Number **44020**
 Course Title **Nuclear Medicine Clinical Education IV**
 Title Abbreviation **NM Clinical Ed IV**
 Maximum 30 spaces, with no punctuation or special characters (exception: forward slash "/" is allowed with no spaces before or after the slash)
 Slash Course **/ /** Cross-listed with
4/5, 4/5/7 or 6/7
 Minimum Credit **02** ☐ to ☐ or Maximum Credit **02** (e.g., 3 to 3 credits, 1 to 12 credits, 2 or 4 credits)
 Contact Hours ☐ Lecture Minimum Hours ☐ to ☐ or Maximum Hours
 Per Week ☒ Laboratory Minimum Hours **02** ☐ to ☐ or Maximum Hours
☒ Other Minimum Hours **24** ☐ to ☐ or Maximum Hours
 Contact hours should be per week.
 Repeat Status **NR - Course may not be repeated**
 If repeats, course limit OR maximum hours
 Course Level **UG - Undergraduate**
 Grade Rule **B - Letter**
 Schedule Type(s) **LEC - Lecture**
 Course Attribute(s) **None**
 Credit By Exam **D - Credit by Exam as Approved by Department**

COMPLETE ONLY WHAT IS APPLICABLE TO THE COURSE

Prerequisite

Course(s) **none**

Test Score(s)

Corequisite(s)

Registration is by permission only ☒ Yes ☐ No

Restrict Registration **RIS majors**

(e.g., VCD majors, East Liverpool Campus, sophomore level and above, graduate standing, BA-CHEM program)

COMPLETED BY PROVOST OFFICE

OBR Program Code _____

OBR Subsidy Code _____

OBR Course Level _____

CIP Code _____

Catalog Description **Clinical Education IV will be instructed at both the clinical education sites and Salem Campus. The course will emphasize advanced procedures, SPECT and PET scanning, advanced and emerging technologies, teleradiology and PACS, and critical thinking skills for the clinical site. Competency testing will be completed. Graduate competency evaluations will be performed. There will be a comprehensive review of all nuclear medicine procedures, physics and instrumentation, radiopharmacy, and radiation health safety. Prerequisite RIS 44015 NM Clinical Education III.**

Previous Title

Previous Subject

Previous Number


Content Outline (include contact hours for each section)

Contact Hours	Outline
6.00	Instrumentation
6.00	Image Evaluation
6.00	Nuclear Medicine procedures
6.00	Radiopharmacy
6.00	Radiation Safety

30.00 Total Contact Hours

Textbook(s) Used in this Course	Nuclear Medicine Technology Procedures and Quick Reference
Writing Expectations	Clinical Journal/Clinical Notebook
Instructor(s) Expected To Teach	Debra Stull
Instructor(s) Contributing to Content	Janet Berger

REQUIRED ENDORSEMENT


 Department Chair / School Director / Campus Dean

4,24,08

KENT STATE UNIVERSITY

CERTIFICATION OF CURRICULUM PROPOSAL

Preparation Date **11-Apr-08**

Curriculum Bulletin _____

Effective Date **Fall 2009**

Approved by EPC _____

Department **EH**
College **RC - Regional Campuses**
Proposal **Revise Course**
Course Subject **RIS** Course Number **44083**
Course Title **Pathophysiology for Medical Imaging**
Minimum Credits **03** Maximum Credits **03**

Selected items are new	<input type="checkbox"/> Subject	<input type="checkbox"/> Cross-Listed / Slash
	<input type="checkbox"/> Number	<input type="checkbox"/> Grade Rule
	<input type="checkbox"/> Title	<input type="checkbox"/> Credit by Exam
	<input checked="" type="checkbox"/> Title Abbreviation	<input type="checkbox"/> Course Fee
	<input type="checkbox"/> Credit Hours	<input type="checkbox"/> Liberal Education Requirements (LER)
	<input checked="" type="checkbox"/> Prerequisites	<input type="checkbox"/> Writing-Intensive
	<input type="checkbox"/> Description	<input type="checkbox"/> Diversity
	<input type="checkbox"/> Schedule Type	<input type="checkbox"/> Other


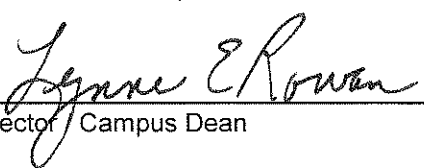
Describe impact on other policies, programs or procedures (e.g., encroachment and duplication issues; enrollment and staffing considerations; need, audience, prerequisites):

No impact on any other programs.

Units consulted (other departments, programs or campuses affected by this proposal):

School of Speech Pathology and Audiology, College of EHHS

REQUIRED ENDORSEMENTS

Department Chair / School Director / Campus Dean

4,24,08

College Dean

____/____/____

Executive Dean of Regional Campuses

____/____/____

Provost

____/____/____

BASIC DATA SHEET

All data entered below should reflect revised information.

Preparation Date **11-Apr-08** Requested Effective Term **Fall 2009**
 Course Subject **RIS** Course Number **44083**
 Course Title **Pathophysiology for Medical Imaging**
 Title Abbreviation **Pathophysiology Med Imaging**
 Maximum 30 spaces, with no punctuation or special characters (exception: forward slash "/" is allowed with no spaces before or after the slash)
 Slash Course **/ /** Cross-listed with
4/5, 4/5/7 or 6/7
 Minimum Credit **03** ☐ to ☐ or Maximum Credit **03** (e.g., 3 to 3 credits, 1 to 12 credits, 2 or 4 credits)
 Contact Hours ☒ Lecture Minimum Hours **03** ☐ to ☐ or Maximum Hours **03**
 Per Week ☐ Laboratory Minimum Hours ☐ to ☐ or Maximum Hours
☐ Other Minimum Hours ☐ to ☐ or Maximum Hours
 Contact hours should be per week.
 Repeat Status **NR - Course may not be repeated**
 If repeats, course limit **OR** maximum hours
 Course Level **UG - Undergraduate**
 Grade Rule **C - Letter and In Progress (IP)**
 Schedule Type(s) **LEC - Lecture**
 Course Attribute(s) **None**
 Credit By Exam **D - Credit by Exam as Approved by Department**

COMPLETE ONLY WHAT IS APPLICABLE TO THE COURSE

Prerequisite

Course(s) **Program Admission**

Test Score(s)

Corequisite(s)

Registration is by permission only ☒ Yes ☐ No

Restrict Registration **RIS majors**

(e.g., VCD majors, East Liverpool Campus, sophomore level and above, graduate standing, BA-CHEM program)

COMPLETED BY PROVOST OFFICE

OBR Program Code _____

OBR Subsidy Code _____

OBR Course Level _____

CIP Code _____

Catalog Description **Provides students with basic information on the causes of disease and the body's response, as well as the medical imaging modalities that will demonstrate them.**

Previous Title

Previous Subject

Previous Number

Content Outline (include contact hours for each section)

Contact Hours	Outline
3.00	Disease and its process
3.00	Causes of disease
6.00	Central nervous system
6.00	Cardiovascular system
3.00	Respiratory system
6.00	Digestive system
6.00	Urinary system
6.00	Reproductive system
3.00	Endocrine system
3.00	Musculoskeletal system

45.00 Total Contact Hours

Textbook(s) Used in this Course	Pathophysiology
Writing Expectations	Research paper
Instructor(s) Expected To Teach	Cynthia Peterson
Instructor(s) Contributing to Content	

REQUIRED ENDORSEMENT



 Department Chair / School Director / Campus Dean

4, 24, 08

KENT STATE UNIVERSITY

CERTIFICATION OF CURRICULUM PROPOSAL

Preparation Date 11-Apr-08

Curriculum Bulletin _____

Effective Date Fall 2009

Approved by EPC _____

Department EH
College RC - Regional Campuses
Degree ATS - Associate of Technical Studies
Program Name **RADT** Program Code **RDMT**
Concentration(s) Radiology Dept. Management Technology Concentration(s) Code(s)
Proposal Revise Program

Description of proposal:

Delete MATH 12001 as a math choice

Does proposed revision change program's total credit hours? ☐ Yes ☒ No

If yes, current total credit hours proposed total credit hours

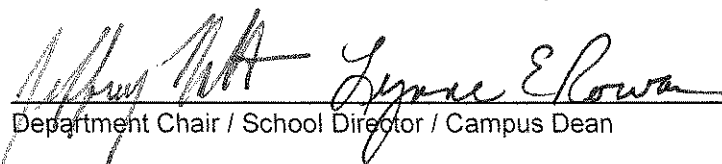
Describe impact on other programs, policies or procedures (e.g., encroachment and duplication issues; enrollment and staffing considerations; need, audience, prerequisites)

The change only affects the radiology completion program in radiology department management technology at the Salem campus.

Units consulted (other departments, programs or campuses affected by this proposal):

School of Speech Pathology and Audiology, College of Education, Health and Human Services.

REQUIRED ENDORSEMENTS



Department Chair / School Director / Campus Dean

4/24/08

College Dean

____/____/____

Executive Dean of Regional Campuses

____/____/____

Senior Vice President for Academic Affairs and Provost

____/____/____

KENT STATE UNIVERSITY

CERTIFICATION OF CURRICULUM PROPOSAL

Preparation Date 11-Apr-08

Curriculum Bulletin _____

Effective Date Fall 2009

Approved by EPC _____

Department EH
College RC - Regional Campuses
Degree AAS - Associate of Applied Science
Program Name **RADT** Program Code
Concentration(s) Concentration(s) Code(s)
Proposal Revise Program

Description of proposal:

Revisions in the AAS in Radiologic Technology courses to include revision of prerequisites of some courses and inactivation of RADT 24000 as an elective.

Does proposed revision change program's total credit hours? ☐ Yes ☒ No

If yes, current total credit hours proposed total credit hours

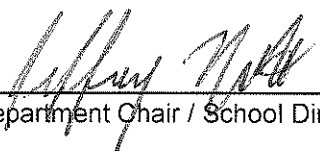
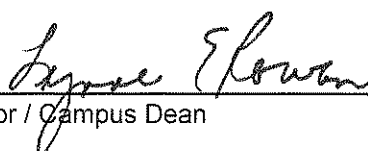
Describe impact on other programs, policies or procedures (e.g., encroachment and duplication issues; enrollment and staffing considerations; need, audience, prerequisites)

The changes affect only the radiologic technology programs at Ashtabula and Salem campuses

Units consulted (other departments, programs or campuses affected by this proposal):

School of Speech Pathology and Audiology, College of Education, Health and Human Services.

REQUIRED ENDORSEMENTS

Department Chair / School Director / Campus Dean

4,24,08

College Dean

____/____/____

Executive Dean of Regional Campuses

____/____/____

Senior Vice President for Academic Affairs and Provost

____/____/____

KENT STATE UNIVERSITY

CERTIFICATION OF CURRICULUM PROPOSAL

Preparation Date 11-Apr-08

Curriculum Bulletin _____

Effective Date Fall 2009

Approved by EPC _____

Department EH
College RC - Regional Campuses
Degree BRIT - Bachelor of Radiologic Imaging Sciences
Program Name **RIS** Program Code **RTAS**
Concentration(s) Diagnostic Medical Sonography AAS entry Concentration(s) Code(s)
Proposal Revise Program

Description of proposal:

Revisions in the prerequisites for RIS 34065 and RIS 44083 for the AAS of the Diagnostic Medical Sonography concentration of the Radiologic and Imaging Sciences major.

Does proposed revision change program's total credit hours? ☐ Yes ☒ No

If yes, current total credit hours proposed total credit hours

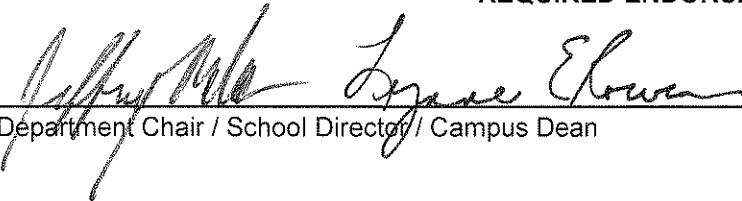
Describe impact on other programs, policies or procedures (e.g., encroachment and duplication issues; enrollment and staffing considerations; need, audience, prerequisites)

The changes affect only the RIS major at the Salem campus.

Units consulted (other departments, programs or campuses affected by this proposal):

School of Speech Pathology and Audiology, College of Education, Health and Human Services.

REQUIRED ENDORSEMENTS



Department Chair / School Director / Campus Dean

4,24,08

College Dean

____/____/____

Executive Dean of Regional Campuses

____/____/____

Senior Vice President for Academic Affairs and Provost

____/____/____

KENT STATE UNIVERSITY

CERTIFICATION OF CURRICULUM PROPOSAL

Preparation Date 11-Apr-08

Curriculum Bulletin _____

Effective Date Fall 2009

Approved by EPC _____

Department EH
College RC - Regional Campuses
Degree BRIT - Bachelor of Radiologic Imaging Sciences
Program Name **RIS** Program Code
Concentration(s) Diagnostic Medical Sonography Freshman Ent Concentration(s) Code(s)
Proposal Revise Program

Description of proposal:

Revisions in the prerequisites for RIS 34065 and RIS 44083 for the Freshman Entry of the Diagnostic Medical Sonography concentration of the Radiologic and Imaging Sciences major.

Does proposed revision change program's total credit hours? ☐ Yes ☒ No

If yes, current total credit hours proposed total credit hours

Describe impact on other programs, policies or procedures (e.g., encroachment and duplication issues; enrollment and staffing considerations; need, audience, prerequisites)

The changes affect only the RIS major at the Salem campus.

Units consulted (other departments, programs or campuses affected by this proposal):


School of Speech Pathology and Audiology, College of Education, Health and Human Services.

REQUIRED ENDORSEMENTS



Department Chair / School Director / Campus Dean

4/24/08



College Dean

____/____/____

Executive Dean of Regional Campuses

____/____/____

Senior Vice President for Academic Affairs and Provost

____/____/____

KENT STATE UNIVERSITY

CERTIFICATION OF CURRICULUM PROPOSAL

Preparation Date 11-Apr-08

Curriculum Bulletin _____

Effective Date Fall 2009

Approved by EPC _____

Department EH
College RC - Regional Campuses
Degree BRIT - Bachelor of Radiologic Imaging Sciences
Program Name **RIS** Program Code **HATS**
Concentration(s) Diagnostic Medical Sonography Hosp Based Concentration(s) Code(s)
Proposal Revise Program

Description of proposal:

Revisions in the prerequisites for RIS 34065 and RIS 44083 for the Hospital Based Entry of the Diagnostic Medical Sonography concentration of the Radiologic and Imaging Sciences major

Does proposed revision change program's total credit hours? ☐ Yes ☒ No

If yes, current total credit hours proposed total credit hours

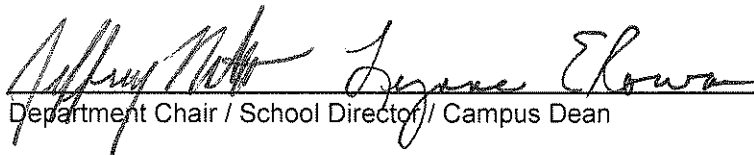
Describe impact on other programs, policies or procedures (e.g., encroachment and duplication issues; enrollment and staffing considerations; need, audience, prerequisites)

The changes affect only the RIS major at the Salem campus.

Units consulted (other departments, programs or campuses affected by this proposal):

School of Speech Pathology and Audiology, College of Education, Health and Human Services.

REQUIRED ENDORSEMENTS



Department Chair / School Director / Campus Dean

4, 24, 08

College Dean

____/____/____

Executive Dean of Regional Campuses

____/____/____

Senior Vice President for Academic Affairs and Provost

____/____/____

KENT STATE UNIVERSITY

CERTIFICATION OF CURRICULUM PROPOSAL

Preparation Date 11-Apr-08

Curriculum Bulletin _____

Effective Date Fall 2009

Approved by EPC _____

Department EH
College RC - Regional Campuses
Degree BRIT - Bachelor of Radiologic Imaging Sciences
Program Name RIS Program Code
Concentration(s) CT, DMS, MRI, NM, RTH Concentration(s) Code(s)
Proposal Revise Program

Description of proposal:

Revision of pre-requisites for RIS 34065 and 44983

Does proposed revision change program's total credit hours? ☐ Yes ☒ No

If yes, current total credit hours proposed total credit hours


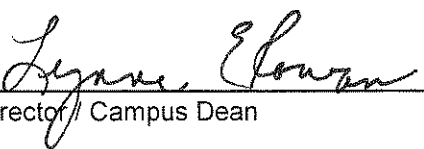
Describe impact on other programs, policies or procedures (e.g., encroachment and duplication issues; enrollment and staffing considerations; need, audience, prerequisites)

The changes affect only the Radiologic and Imaging Sciences majors at the Salem Campus

Units consulted (other departments, programs or campuses affected by this proposal):

School of Speech Pathology and Audiology, College of Education, Health and Human Services.

REQUIRED ENDORSEMENTS

Department Chair / School Director / Campus Dean

4/24/08

College Dean

____/____/____

Executive Dean of Regional Campuses

____/____/____

Senior Vice President for Academic Affairs and Provost

____/____/____

Program Requirement Sheet
 Associate of Technical Study
 Category B

Student Name: _____
 Campus: _____

RADIOLOGY DEPARTMENT MANAGEMENT TECHNOLOGY **Completion Program** **2008-2009**

DEVELOPMENTAL PRESCRIPTION COURSES

Determined by Basic Skills Assessment (Check Required Courses)

Dept.	Course Number	Title	Credit Hours	Sem./Yr. Complete
<input type="checkbox"/>	ENG 11001	Intro. to College Writing S (3)	6	_____
<input type="checkbox"/>	ENG 11002	College Writing I - Stretch (3)	1	_____
<input type="checkbox"/>	MATH 10031	Fundamentals of Math I	1	_____
<input type="checkbox"/>	MATH 10032	Fundamentals of Math II	1	_____
<input type="checkbox"/>	MATH 10033	Fundamentals of Math III	1	_____
<input type="checkbox"/>	MATH 10034	Fundamentals of Math IV	1	_____
<input type="checkbox"/>	MATH 10035	Fundamentals of Math V	1	_____
<input type="checkbox"/>	MATH 10036	Fundamentals of Math VI	1	_____
<input type="checkbox"/>	US 10003	Reading Strat/College Success	3	_____
<input type="checkbox"/>	US 10006	Study Strat/for College Success	3	_____

TECHNICAL COURSES

Thirty-two (32) semester hours are awarded on the basis of certification by the American Registry of Radiologic Technologists (attach a copy of the certification card).

Dates and Place of Attendance _____ Date Certificate Awarded _____

Total Technical Course Hours 32

RELATED COURSES

Dept.	Course Number	Title	Credit Hours	Sem./Yr. Completed
BMRT	11000	Introduction to Business	3	_____
BMRT	11009	Introduction to Management Technology	3	_____
BMRT	21006	Human Resources Management	3	_____
BMRT	21008	Case Studies in Management Technology	3	_____
BMRT	21096	Individual Investigation	2	_____
COMT	11000	Introduction to Computer Systems	3	_____
RADT	21095	ST: Contemp. Issues in Radiologic Tech.	3	_____

Total Related Course Hours 20

GENERAL STUDIES COURSES

Dept.	Course Number	Title	Credit Hours	Sem./Yr. Completed
COMM	15000	Introduction to Human Communication	3	_____
ENG	11011	College Writing I	3	_____
ENG	20002	Introduction to Technical Writing	3	_____
US	10097	First Year College Exp Fresh Point	1	_____

General Studies Elective

Select one of the following pairs

<input type="checkbox"/>	BSCI 10001	Human Biology (3)	_____
<input type="checkbox"/>	BSCI 10002	Ecology, Evolution & Soc. (3)	_____
<input type="checkbox"/>	ECON 22060	Principles of Microeconomics (3)	_____
<input type="checkbox"/>	ECON 22061	Principles of Macroeconomics (3)	_____

Choose from

<input type="checkbox"/>	MATH 11010	Algebra for Calculus (3)	_____
<input type="checkbox"/>	MATH 12001	Algebra & Trig. (4)	_____
<input type="checkbox"/>	MATH 11012	Intuitive Calculus (3)	_____
<input type="checkbox"/>	PSYC 11762	General Psychology (3)	_____
<input type="checkbox"/>	PSYC 21211	Psychology of Adjustment (3)	_____

Total General Studies Course Hours 16-17

TOTAL REQUIREMENTS

68-69

Student Signature _____

Date _____

Advisor Signature _____

Date _____

NOTES: The total degree will consist of 68-69 hours. Coursework may be pursued at any Kent Campus, but students must be advised by the Director of Radiologic Technology housed at the Salem Campus.

ENG 11011 College Writing I	3
20002 Introduction to Technical Writing	3
PSYC 11762 General Psychology	3
US 10097 First Year Experience FLASH Point	1
General studies electives	4
<i>Select from the LER list in this Catalog, in consultation with an academic advisor.</i>	

TOTAL	65
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Coursework may be pursued at any Regional Campus, but students must be advised at the Geauga or Trumbull campuses.

Radiologic Technology Completion Program

The Salem Campus offers associate degree completion programs for certified radiologic technologists and diagnostic medical sonographers who have completed their training at an accredited institution and have been certified by the American Registry of Radiologic Technologists or American Registry of Diagnostic Medical Sonographers.

Students interested in one of these programs should apply to the Salem Campus and meet with the director of radiologic technology for additional application details. Upon admission to these programs, students will be granted 32 credit hours on the basis of their certification. In addition, they must successfully complete a minimum of 32 or 33 hours of courses selected in accordance with the following curricula:

- Associate of Technical Study in Diagnostic Medical Sonography
- Associate of Technical Study in Nuclear Medicine Technology
- Associate of Technical Study in Radiation Therapy Technology
- Associate of Technical Study in Radiologic Technology

Credits awarded on the basis of certification	32
Basic Sciences*, Math**, Computer Technology	15
ENG 11011 College Writing I	3
21011 College Writing II	3
Humanities and Fine Arts	3
Social Sciences	9
US 10097 First Year Experience FLASH Point	1
TOTAL	66

*Up to six semester hours of RADT 14096 or 24196, Individual Investigation, may be used for this requirement.

**MATH 10004 Developmental Mathematics and MATH 10005 Introduction to College Mathematics and MATH 10031 through 10036 Fundamentals of Mathematics I-VI cannot be included in this section.

The total degree will consist of 66 hours. Coursework may be pursued at any Regional Campus, but students must be advised by the director of radiologic technology, housed at the Salem Campus.

Radiology Department Management Technology

Radiology Department Management Technology is a concentration within the A.T.S. in Radiologic Technology. Thirty-two credits are awarded on the basis of certification as radiologic technologist.

I. TECHNICAL COURSES	32
<i>(Credits awarded on the basis of certification.)</i>	
II. RELATED COURSES	20
BMRT 11000 Introduction to Business	3
11009 Introduction to Management Technology	3
21006 Human Resources Management	3
21008 Case Studies in Management Technology	3
21096 Individual Investigation	2
COMT 11000 Introduction to Computer Systems	3
RADT 24196 Individual Investigation in Advanced Readings in Radiologic Technology	3
III. GENERAL STUDIES COURSES	16-17
COMM 15000 Introduction to Human Communication	3
ENG 11011 College Writing I	3
20002 Introduction to Technical Writing	3
US 10097 First Year Experience FLASH Point	1
One of the following pairs:	6-7
BSCI 10001 and 10002	
ECON 22060 and 22061	
MATH 11012 and (11010 or 12004)	
PSYC 11762 and 21211	

TOTAL	68-69
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The total degree will consist of 68-69 hours. Coursework may be pursued at any Regional Campus offering appropriate courses, but students must be advised by the director of radiologic technology, housed at the Salem Campus.

See attached changes

40383 Psychological Interventions (3)

Application of psychological principles and techniques to the problems of the individual. This course is designed to introduce the field of clinical psychology, including models of understanding abnormal behavior, treatment of individuals, and ethics and professional issues. Prerequisite: PSYC 11762.

40461 Psychology of Language (3)

Investigates psychological processes involved in language production, comprehension and development. Within each broad area, emphasis is on theories, psychological experiments, key findings and the relationships between theory, method and data. Prerequisites: PSYC 11762 and 30445.

40625 Development of Gender Role and Identity (3)

A life span, developmental model is used to analyze the changes which occur with age in gender-related role performance and identity formation. Prerequisite: PSYC 11762. This course may be used to satisfy the diversity requirement.

40974 History of Psychology (3)

Course examines the historical context, influences and individuals instrumental in the development of psychology. Course organization is designed to compare and contrast systems, theories and fundamental issues with which psychologists have concerned themselves in past and contemporary stages of the science. Prerequisites: PSYC 11762 and special approval.

41282 Personality (3)

A review of the data, concepts and theories of psychology that contribute to our understanding of personality. Prerequisite: PSYC 11762.

41363 Biopsychology (3)

Covers the relationship between brain and behavior at the physiological, chemical and anatomical levels. Focuses on the association between the central nervous system and various processes and behaviors such as learning, emotions, neurological disorders and psychopathology. Prerequisite: PSYC 11762.

41495 Special Topics in Psychology (3)

(Repeated registration permissible) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of research, theory or methodology may be covered. Specific topics announced. Prerequisites: junior standing and special approval.

41498 Individual Investigation (1-6)

(Repeatable for a total of 16 credit hours but see arts and sciences and psychology major/minor requirements for applicability limits) Involves participation in empirical research, review of psychological literature and preparation of a paper or annotated bibliography. IP grade permissible. Prerequisite: PSYC 11762 and special approval.

41532 Social Psychology (3)

Study of environmental/situational influences on our own and others' thoughts, behaviors and feelings—focus on topics, such as aggression, attitudes and behaviors, conformity, helping, personal relationships and social cognition. Prerequisite: PSYC 11762.

41573 Laboratory Experience in Psychological Research: Social/Clinical (3)

Intensive experience in the conduct, analysis and reporting of empirical research in social or clinical psychology. Specific content will vary with the instructor. Repeatable once with instructor and departmental special approval if topic is different. Prerequisites: 3.2 GPA; PSYC 11762, 21621 and 31574. This course may be used to satisfy the writing-intensive requirement.

41574 Laboratory Experience in Psychological Research: Cognitive/Learning (3)

Intensive experience in the conduct, analysis and reporting of empirical research in cognitive psychology or human/animal learning. Specific content will vary with the instructor. Repeatable once with instructor and departmental special approval if topic is different. Prerequisites: 3.2 GPA; PSYC 11762, 21621, 31574 and special approval. This course may be used to satisfy the writing-intensive requirement.

41581 Health Psychology (3)

Role of psychological and social factors in health and illness, typically covering three general areas: 1) psychological factors affecting disease, 2) psychological and social consequences of illness, and 3) psychotherapeutic interventions. Prerequisite: PSYC 11762.

41990 Writing in Psychology (1)

Writing-intensive course taken in conjunction with a 3-credit-hour upper-division psychology course (except PSYC 31498, 41498, 41573, 41574 or 41993). Prerequisite: departmental special approval. This course may be used to satisfy the writing-intensive requirement with approval of major department.

41993 Variable Title Workshop in Psychology (1-6)

Variable topic offered as need arises. Specific topics are announced in the *Schedule of Classes*. S/U grading. Prerequisites: PSYC 11762 and special approval.

RADIOLOGIC TECHNOLOGY (RADT)**

14000 Introduction to Radiologic Technology (3)
Introduction to: radiologic technology, radiographic anatomy and physiology, imaging equipment, radiographic procedures, radiation protection, radiographic terminology, X-ray tube and production, and X-ray film. Two-hour lecture, three-hour laboratory weekly. Prerequisite: admission to program.

14001 Orientation to Clinical Radiography (2)
Radiographic positioning of the chest and abdomen. Darkroom chemistry, beam restriction devices and introduction to contrast mediums. One hour lecture, three hours laboratory weekly. Prerequisite: RADT 14000 and HED 14020.

14002 Introduction to Patient Care (3)
Medicolegal aspects of patient care, ethics, nursing procedures for radiographic examinations, techniques, radiography and taking and recording vital signs. Introduction to venipuncture and clinical pharmacology. Prerequisite: RADT 14000 and HED 14020.

14004 Radiologic Physics (4)
Introduction to concepts of physics. Study of the X-ray machine circuit and components, the production of X-rays and their interaction with matter. Prerequisite: admission to program.

14010 Clinical Education I (1)
Supervised experience and observation with emphasis on basic radiological examinations, patient care, professionalism and the procedures covered in RADT 14020. Competency testing begins. Assigned to a clinical education center 16-20 hours per week. Prerequisite: RADT 14001. Corequisites: RADT 14020 and BSCI 11000.

14011 Clinical Education II (1)
Continuation of Clinical Education I, with emphasis on clinical practice of basic skills of radiologic technology and the examinations covered in RADT 14021. Competency testing continues. Assigned to a clinical education center 16-20 hours per week. Prerequisite: RADT 14010, 14019, 14020; BSCI 11000. Corequisite: RADT 14021.

14012 Clinical Education III (1)
Continuation of Clinical Education II, with more emphasis on independent clinical practice of procedures previously mastered and problem solving. Competency testing continues. Assigned to a clinical education center for 40 hours per week for five weeks. Prerequisite: RADT 14011, 14021, 14022.

*Course ineligible to be repeated for GPA recalculation—effective spring 2008.

**Courses offered only at Regional Campuses.

14013 Clinical Education IV (1)

Continuation of Clinical Education III, with emphasis on individual performance and instruction of radiographic procedures and the ability to adapt to unusual situations. Competency testing continues. Assigned to a clinical education center for 40 hours per week for five weeks. Prerequisite: RADT 14012.

14019 Radiographic Exposure and Imaging I (2)

Brems and characteristic radiation, Planck's Quantum Theory, radiographic artifacts, silver recovery, intensifying screens, radiographic grids, preparation of exposure charts and introduction to radiographic quality. Two-hour lecture weekly. Prerequisite: RADT 14001. Corequisite: RADT 14020.

14020 Radiographic Procedures I (5)

Radiographic anatomy and positioning of the upper and lower extremities, pelvic and pectoral girdles, skull, facial bones, sinuses, vertebral column and bony thorax. Four hours lecture, two hours laboratory weekly. Prerequisite: RADT 14002. Corequisite: BSCI 11000.

14021 Radiographic Procedures II (4)

Radiographic anatomy and positioning of the gastrointestinal system, urinary and biliary systems, and trauma patients. Three hours lecture, two hours laboratory weekly. Prerequisite: RADT 14020 and BSCI 11000.

14022 Radiographic Exposure and Imaging II (3)

Aspects of radiographic quality, fluoroscopic equipment, X-ray timers and tomography. Experiments involving the factors that influence radiographic quality. Two hours lecture, two hours laboratory weekly. Prerequisite: RADT 14019.

14096 Individual Investigation in Directed Readings in RADT (3)*

Student selects prescribed number of medical journals, completes questions, paper and presentation. Prerequisite: program admission or graduate of medical imaging program.

21095 Special Topics in Radiologic Technology (2-4)*

(Repeated registration permissible) Student participation course on topics pertinent to radiologic technology. Topics are chosen by the instructor. Students may enroll in course more than once. Prerequisite: special approval of instructor.

24000 Medical Terminology (2)

Method of construction and recognition of medical terms from Greek and Latin prefixes, suffixes, word roots and combining forms. Radiologic terminology is emphasized. Prerequisite: admission to the program.

24001 Radiologic Pathology (3)

Introduction to disease and injury states and their application to radiologic technology. Each anatomical system is discussed and appropriate imaging modalities demonstrated. Prerequisites: BSCI 11000; HED 14020; RADT 14002, 24010 and 24020.

24002 Radiation Protection (3)

Fundamentals of radiation safety. Introduction to state and federal regulations. Radiation biology. A brief survey of biophysics. Introduction to radiation therapy and oncology. Prerequisites: BSCI 11000 and RADT 14004.

24010 Clinical Education V (1)

Continuation of Clinical Education IV, with emphasis on clinical practice. Begin participation in procedures covered in RADT 24020. Competency testing continues. Assigned to a clinical education center 24 hours per week. Prerequisite: RADT 14013. Corequisite: RADT 24020.

24011 Clinical Education VI (1)

Continuation of Clinical Education V, emphasis on advanced clinical practice. Independent performance on radiographic examinations, participation in specialized radiographic areas covered in RADT 24020. Assigned to a clinical education center 24 hours per week. Prerequisites: RADT 14004, 24001, 24010, 24020. Corequisite: RADT 24022.

24020 Radiographic Procedures III (3)

Advanced radiographic procedures of the nervous, circulatory, urinary, reproductive and digestive systems. Pediatric and geriatric radiography and specialized procedures and equipment. Prerequisite: RADT 14021.

24022 Radiographic Exposure and Imaging III (3)

Evaluation of radiographic systems to assure consistency in the production of quality images. Two hours lecture, two hours laboratory weekly. Prerequisite: RADT 14022.

24048 Radiographic Techniques (3)

Course integrates concepts in radiologic technology for preparation of the radiography certification exam. Prerequisites: BSCI 11000, RADT 14002, 14004, 14022, 24002, 24010, 24020 or program special approval.

24058 Diversified Employment (3)

Course features multiple topics in medical imaging to prepare graduates for employment in healthcare. Prerequisite: program admission or graduate of medical imaging program.

24096 Individual Investigation in Radiologic Technology (1)*

Directed research of special interest or need in the student's program. A research paper will be written on an assigned topic in radiologic technology. Prerequisite: RADT 14000.

24196 Individual Investigation in Advanced Readings in RADT (3)*

Course permits scholarly activities for research, study and summary of medical journal articles. Information aids in understanding recent advancements in medical imaging. Prerequisite: program admission or graduate of medical imaging program.

RADIOLOGIC AND IMAGING SCIENCES (RIS)****34003 Radiation Therapy Principles/Practice I (3)**

An overview of cancer, radiation therapy and its physical and technical aspects. Includes the roles/responsibilities of the therapist, treatment parameters, documentation and delivery of patient care, education and procedures. IP grade permissible. Prerequisite: program admission.

34004 Radiation Therapy Patient Management (3)

Provides the basic concepts in patient assessment and evaluation. Includes communication skills, infection control, nutrition, medications, exams, emergencies, patient transfer techniques, medical ethics and law as applied to radiation therapy. IP grade permissible. Prerequisite: program admission.

34008 Radiation Therapy Physics I (3)

Introduction to radiation therapy physics, including the fundamentals of atomic structure, radiation properties, radiation production, radiation quality, interactions of radiation with matter and principles of radiation detectors. IP grade permissible. Prerequisite: program admission.

34030 Radiation Therapy Clinical Education I (1)

Observation and supervised clinical education with emphasis on administering radiation therapy treatments, simulation, block formation and patient care. Students are assigned to a clinical education site for approximately 16 hours per week. IP grade permissible. Prerequisite: program admission.

34042 Abdominal Sonography I (3)

Anatomy, physiology and pathology of the abdomen; instrumentation and scanning techniques; normal and abnormal sonographic appearances of abdominal structures will be presented. Prerequisite: program admission.

Delete
Inactivate

34044 Ultrasound Physics and Instrumentation (3)

Ultrasound principles to include interaction of sound with matter, propagation of sound in tissue, physical units, transducer parameters, image storage and display, quality assurance, bioeffects, image artifacts and physical principles of Doppler. Prerequisite: program admission.

34045 Ultrasound Clinical Education I (2)

Provides clinical education and experience at a clinical site to allow students the opportunity to practice skills necessary to obtain high quality sonographic images, to alter protocols based on patients and to identify image quality problems. IP grade permissible. Prerequisite: program admission.

34052 Abdominal Sonography II (3)

Continuation of RIS 34042; anatomy, physiology, and pathology of the abdomen; instrumentation and scanning techniques; normal and abnormal sonographic appearance of abdominal structures will be presented. Prerequisites: RIS 34042, 34044, 34045, 34083. Corequisite: RIS 44083.

34055 Ultrasound Clinical Education II (3)

Provides clinical education and experience at clinical sites to allow students the opportunity to practice skills necessary to obtain high quality sonographic images, to alter protocols based on patients and to identify image quality problems. IP grade permissible. Prerequisite: RIS 34045. Corequisite: RIS 34062.

34062 Obstetrics and Gynecology Sonography I (3)

Anatomy and pathophysiology of the nonpregnant female pelvis; instrumentation and scanning techniques; normal and abnormal sonographic appearances; and findings of the uterus, fallopian tubes and ovaries will be covered. Prerequisites: RIS 34044, 34045, 34052 and 34083. Corequisites: RIS 34055, 44083.

34065 Ultrasound Clinical Education III (2)

Provides clinical education and experience at a clinical site to allow students the opportunity to practice skills necessary to obtain high quality sonographic images, to alter protocols based on patients and to identify image quality problems. IP grade permissible. Prerequisite: special approval. Corequisite: RIS 44072.

34082 Small Parts Sonography (1)

Anatomy and pathophysiology of superficial structures; instrumentation and scanning techniques; normal and abnormal sonographic appearances of small structures; correlation with laboratory findings and other imaging modalities will be presented. Prerequisites: RIS 34044, 34083, 44083. Corequisite: RIS 44075.

34083 Sectional Anatomy in Medical Imaging (3)

Presentation of sectional anatomy of the body in the transverse (axial), sagittal and coronal planes as seen in medical images in CT, MRI and diagnostic medical sonography. Prerequisites: program admission and BSC1 11000 or 20020.

41095 Special Topics in Radiologic and Imaging Sciences (1-3)

Courses will consist of various topics in medical imaging designed to enhance learning outcomes. Prerequisites: special approval. Enrollment in RIS concentration: CT, MRI, diagnostic medical sonography or nuclear medicine.

44001 Patient Management in Nuclear Medicine (2)

Provides a working knowledge of a health care facility's function, basic patient care skills, emergency care, patient communications and professionalism. Includes interactions and care of diverse populations. Prerequisite: program admission.

44002 Nuclear Medicine Procedures I (3)

An introduction to imaging "in vivo" nuclear medicine procedures. Course focuses on the biological, anatomical and physiological aspects involving the skeletal, cardiovascular, respiratory, genitourinary and gastrointestinal organ systems. Prerequisite: program admission.

44005 Nuclear Medicine Clinical Education I (3)

Provides clinical experience at assigned clinical site. Includes orientation to program and policies, observation of procedures, patient management, radiation safety, equipment orientation and the competency procedure. IP grade permissible. Prerequisite: program admission.

44006 Nuclear Medicine Physics and Instrumentation I (4)

Presents concepts and physical principles of nuclear medicine physics including interactions with matter. Also presents information on radiation detectors and their applications, functions and limitations. Prerequisite: program admission. Corequisite: RIS 44010.

44010 Nuclear Medicine Clinical Education II (3)

Continuation of RIS 44005. Students apply principles of patient care, structure and function, physics, instrumentation, radiation safety and protection, imaging techniques and radiopharmacy to clinical education. Students begin performing clinical competency exams. IP grade permissible. Prerequisite: RIS 44005.

44011 Nuclear Medicine Radiopharmacy (3)

Includes methodologies, calculations and basic properties of radionuclides. Radiopharmaceutical chemistry is applied and localized and quality control is examined. Includes radiopharmacy management and governing rules and regulations. Prerequisites: RIS 44001, 44002, 44005, 44006, 44010. Corequisites: RIS 44012, 44014, 44015, 44017.

44012 Nuclear Medicine Procedures II (3)

Emphasis on the biological, anatomical and physiological aspects of nuclear medicine procedures involving the endocrine and central nervous systems, as well as inflammatory, tumor, miscellaneous and pediatric studies. Prerequisites: RIS 44001, 44002, 44005, 44006, 44010. Corequisites: RIS 44011, 44014, 44015, 44017.

44013 Radiation Therapy Principles/Practice II (3)

Examines the multidisciplinary treatment approaches. Consists of advanced topics in therapy, chemotherapy, immunotherapy and surgical interventions for combined modalities, for benign conditions and for managing side effects and emergencies. IP grade permissible. Prerequisite: RIS 34003.

44014 Nuclear Medicine Physics and Instrumentation II (2)

Physics and instrumentation of imaging devices is presented to include basic functions, application of principles, quality control and computer applications. Prerequisites: RIS 44002, 44005, 44006, 44010. Corequisites: RIS 44011, 44012, 44015, 44017.

44015 Nuclear Medicine Clinical Education III (2)

Continuation of RIS 44010 with emphasis on clinical procedures covered in RIS 44012 and equipment in RIS 44014. Competency testing continues. IP grade permissible. Prerequisites: RIS 44001, 44002, 44005, 44006 and 44010. Corequisites: RIS 44011, 44012, 44014 and 44017.

44016 Nuclear Medicine Procedures III (3)

Emphasis on in vitro procedures, immunology, radionuclide therapy, SPECT and PET scanning. Also includes a review of all nuclear medicine procedures. Prerequisites: RIS 44011, 44012, 44014, 44015, 44017. Corequisite: RIS 44020.

44017 Nuclear Medicine Radiation Safety (3)

Presents the units of radiation measurement, dose limits, safety and monitoring devices, safe handling of radioactive materials, licensing requirements, therapeutic doses and the effects of radiation on the body. Prerequisites: RIS 44001, 44002, 44005, 44006, 44010. Corequisites: RIS 44011, 44012, 44014, 44015.

*Course ineligible to be repeated for GPA recalculation—effective spring 2008.

**Courses offered only at Regional Campuses.

2007-2008 Kent State University Undergraduate Catalog

44018 Radiation Therapy Physics II (3)
Continuation of the principles of radiation therapy physics and the study of photon beam dosimetry, electron beam dosimetry and treatment planning. IP grade permissible. Prerequisite: RIS 34008.

44020 Nuclear Medicine Clinical Education IV (2)
Continuation of RIS 44015 with emphasis on advanced procedures, SPECT and PET scanning, advanced and emerging technologies, teleradiology and PACS and critical thinking skills for the clinical site. IP grade permissible. Prerequisite: RIS 44015. Corequisite: RIS 44016.

44021 Patient Management in Computed Tomography (CT) (3)
Provides knowledge about care-giving skills for patients undergoing CT exams. Information includes effective communication, problem-solving techniques, patient safety/comfort, patient preparation, monitoring, contrast agents and venipuncture. Prerequisite: admission to program.

44022 Computed Tomography (CT) Imaging Procedures (3)
Presentation of information about CT scanning techniques related to each part of the body as well as special studies. Positioning criteria, protocols and variations from routine exams will be included. Image quality evaluation criteria will be discussed. Prerequisite: program admission.

44024 Physical Principles of Computed Tomography (CT) (3)
Information presented about data acquisition and processing. The components in the image acquisition system are outlined. The software and technical parameters used in the acquisition of images is discussed. Problem-solving methodologies discussed. Prerequisites: program admission, RADT 14004 or equivalent; COMT 11000 or equivalent.

44025 Computed Tomography (CT) Clinical Education I (3)
Provides clinical education at a clinical site so students can observe and become familiar with CT equipment and procedures, and apply knowledge of physics and patient care. Students begin to perform some CT procedures under direct supervision of technologists. Competency exams required. IP grade permissible. Prerequisite: program admission.

44026 Radiation Therapy Pathology (3)
General overview of various disease processes with emphasis on cancer types. Includes epidemiology, etiology, symptoms, metastases, histology, tumor grading, staging, detection, screening and diagnosis, treatment, side effects and prognosis. IP grade permissible. Prerequisites: RIS 34003 and 34083

44027 Computed Tomography (CT) Clinical Education II (3)
Continuation of RIS 44025. Students apply knowledge of physics, patient care, sectional anatomy and pathology in the performance of CT clinical competency exams. Students act more independently using critical thinking skills. IP grade permissible. Prerequisite: RIS 44025.

44028 Radiation Therapy Radiobiology (3)
Establishes a foundation in radiation biology for radiation therapy. Cell biology and its response to radiation are reviewed as well as the effect of radiation on pathology and body systems. IP grade permissible. Prerequisite: RIS 44018.

44031 Patient Management in MRI (3)
Provides information on the role of the MRI technologist in maintaining patient safety and comfort as well as personal and coworker safety. MR contrast agents and venipuncture will be studied. Includes problem solving with diverse patient types. Prerequisite: program admission.

44032 Magnetic Resonance Imaging Procedures (3)
Provides the imaging techniques related to the body, special clinical applications, coil selection, scan sequences, protocols, positioning criteria, normal and abnormal anatomical and pathological structures and signal characteristics. Prerequisite: program admission.

44034 Magnetic Resonance Equipment and Image Acquisition (3)
Develops an understanding of MR image acquisition and the equipment used. Provides information in the use and manipulation of the hardware and technical parameters used in image generation, as well as safety and special applications. Prerequisite: program admission.

44035 MRI Clinical Education I (3)
Students observe and become familiar with MRI equipment and procedures and apply knowledge of physics, MRI safety and patient care. Students begin to perform some procedures under direct supervision of technologists. IP grade permissible. Prerequisite: program admission.

44036 MRI Clinical Education II (3)
Continuation of RIS 44035. Students apply knowledge of physics, patient care, anatomy and pathology when performing clinical competency exams as well as quality assurance procedures. Some applications to special procedure exams. IP grade permissible. Prerequisite: RIS 44035.

44037 MRI Clinical Education III (3)
Continuation of RIS 44036. Students use critical thinking skills in performing MRI exams in the clinical setting and solve problems in a more independent manner. Students complete all required clinical competency exams. IP grade permissible. Prerequisite: RIS 44036.

44038 Radiation Therapy Physics III (3)
Includes determination of radiation intensity, use of high-energy beams, linear accelerators, other high energy machines, geometry of photon beams, clinical application in treatment planning and safety. IP grade permissible. Prerequisite: RIS 44018.

44040 Radiation Therapy Clinical Education II (1)
Continuation of RIS 34030 with emphasis on clinical practice of treatment techniques and planning. Students are assigned to clinical education site for approximately 24 hours per week. IP grade permissible. Prerequisite: RIS 34030.

44041 Radiation Therapy Quality Management (2)
Provides overview of quality management programs and continuing quality improvement in radiation therapy. Topics include validity of quality assurance checks, chart checks, image checks, testing on simulators, linear accelerators and brachytherapy sources. IP grade permissible. Prerequisite: RIS 44018.

44043 Radiation Therapy Principles/Practice III (2)
Content examines the health care market with emphasis on current trends in radiation therapy. Focuses on operational issues such as human resource regulations, accreditation agencies, billing and reimbursement and Medicare. IP grade permissible. Prerequisite: RIS 44013.

44050 Radiation Therapy Clinical Education III (1)
Continuation of RIS 44040 with added emphasis on critical thinking, problem solving and clinical competency. Students are assigned to clinical education site for approximately 24 hours per week. IP grade permissible. Prerequisite: RIS 44040.

44060 Radiation Therapy Clinical Education IV (1)
Continuation of RIS 44050 with added emphasis on critical thinking, problem solving and clinical competency. Students are assigned to clinical education site for approximately 24 hours per week. IP grade permissible. Prerequisite: RIS 44050.

44070 Radiation Therapy Clinical Education V (1)

Continuation of RIS 44060 with added emphasis on clinical practice, treatment procedures, simulation and treatment planning. Students are assigned to clinical education site for approximately 24 hours per week. IP grade permissible. Prerequisite: RIS 44060.

44072 Obstetrics and Gynecology Sonography II (3)

Embryonic and fetal development throughout gestation; fetal measurements, normal fetal anatomy and physiology; and abnormal sonographic appearances of the fetus will be covered as well as invasive obstetric procedures and antepartum testing. Prerequisite: RIS 34062.

44074 Vascular Sonography (2)

Anatomy, physiology and hemodynamics of the cerebrovascular and peripheral venous systems; normal and abnormal sonographic vascular appearances; Doppler instrumentation and scanning techniques will be covered. Prerequisites: RIS 34044, 34083, 44075, 44083. Corequisite: RIS 44085.

44075 Ultrasound Clinical Education IV (3)

Provides clinical education and experience at a clinical site to allow students the opportunity to practice skills necessary to obtain high quality sonographic images, to alter protocols based on patients and to identify image quality problems. IP grade permissible. Prerequisite: special approval. Corequisites: RIS 34082 and 44084.

44078 Sonographic Techniques (3)

Course integrates diagnostic medical sonography concepts in preparation for certification exams. Prerequisite: DMS program admission or graduate of a medical imaging program with special approval of program director.

44083 Pathophysiology for Medical Imaging (3)

Provides students with basic information on the causes of diseases and the body's response to disease, as well as the medical imaging modalities that will demonstrate them. Prerequisite: special approval.

44084 Ultrasound Image Evaluation (1)

Presentation of sonographic findings in specific disease processes, with evaluation of image quality and emphasis on diagnostic features of pathologic entities. Prerequisites: RIS 34083, 34044, 34052, 44072, 44083. Corequisite: RIS 44075.

44085 Ultrasound Clinical Education V (3)

Provides clinical education and experience at a clinical site to allow students the opportunity to practice skills necessary to obtain high quality sonographic images, to alter protocols based on patients and to identify image quality problems. IP grade permissible. Prerequisite: special approval. Corequisite: RIS 44074.

44096 Individual Investigation in Medical Imaging Directed Readings (3)

Student selects prescribed number of medical imaging journal articles, completes questions, paper and presentation. Prerequisite: RIS program admission or graduate of a medical imaging program.

44098 Research in Medical Imaging (3)

Fundamental concepts and procedures for systematic collection, analysis, critique and application of qualitative and quantitative data in medical imaging. Prerequisites: majors only; senior standing.

REAL ESTATE AND RELATED TECHNOLOGIES (RERT)****11000 Real Estate Principles and Practices (3)**

Introduction to listing, selling, real estate math, legal descriptions of property and contracts. Prerequisite: none.

11001 Real Estate Law (3)

Review of basic Ohio laws covering the functions of an agency and the legal aspects of real estate transactions. Prerequisite: RERT 11000.

11003 Real Estate Financing (2)

Covers types of institutions, instruments and procedures involved in financing real estate transactions. Covers nature and characteristics of mortgage loans and nature of mortgage market. Prerequisite: RERT 11000.

21000 Real Estate Appraisal (2)

Emphasizes methodology of appraising urban real property and appraisal techniques. Presents market approach to residential appraisal. Prerequisite: RERT 11000.

21003 Special Topics in Real Estate (2)

Seminar involving discussion of current issues and solutions to special problems in real estate investment, management and brokerage operations. Prerequisites: RERT 11000, 11001, 11003, 21000.

RECREATION, PARK AND TOURISM MANAGEMENT (RPTM)**16000 Foundations of Recreation and Leisure (3)**

Historical examination of the park and recreation movement; sociological, economic, psychological and political considerations for the delivery of leisure and recreation services in contemporary society. Prerequisite: none.

26000 Computer Applications in Recreation and Sport (3)

This course focuses on the personal computer and its general function and uses in a recreation and sport environment. Students learn a wide variety of applications and programs pertinent to the recreation and sport industry. Prerequisite: junior standing.

26010 Community Development in Recreation (3)

Explores the contemporary and historical roles, organization and services of public and nonprofit leisure service providers. Includes various theoretical perspectives on community organization and development, as well as methods available to the recreation practitioner to facilitate the development of recreation services in communities. Prerequisite: RPTM 16000.

26030 Recreation Group Leadership (3)

Group leadership concepts, methods and techniques. Practical experience in planning and conducting recreational activities for a variety of populations. Prerequisite: RPTM 16000. Special fee: \$4/credit hour—subject to change.

26060 Introduction to Global Tourism (3)

(Cross-listed with GEOG 22040) Introduction to travel and tourism around the world, including tourism technologies, cultural and natural environments as attractions, benefits of travel, travel ethics and sustainable development. Prerequisite: none.

26080 Introduction to Therapeutic Recreation (3)

Introduction to the profession of therapeutic recreation. Includes history, philosophy, settings and populations served and an overview of therapeutic recreation process. Prerequisite: RPTM 16000.

26081 Principles of Outdoor Recreation (3)

Introduction to outdoor recreation, including the history, economics, resources, management, education and environmental aspects. Prerequisite: RPTM 16000.

36010 Recreation, Leisure and Aging (3)

Knowledge and understanding of leisure and aging. Planning and implementing recreational programs and activities for enriching the lives of older persons. Prerequisite: RPTM 26030.

*Course ineligible to be repeated for GPA recalculation—effective spring 2008.

**Courses offered only at Regional Campuses.

CATALOG COPY CHANGES

RADIOLOGIC TECHNOLOGY (RADT)**

14000 Introduction to Radiologic Technology (3)

~~Introduction to: radiologic technology, radiographic anatomy and physiology, imaging equipment, radiographic procedures, radiation protection, radiographic terminology, X-ray tube and production, and X-ray film. Two-hour lecture, three-hour laboratory weekly. Prerequisite: admission to program.~~

Introduction to radiologic technology program, general anatomy, introduction to radiologic procedures and positioning, imaging equipment, radiographic exposure, radiation protection, professional organizations and clinical education. Lecture and lab plus clinical hours based on program requirements. Prerequisite: program admission.

14001 Orientation to Clinical Radiography (2)

Radiographic positioning of the chest and abdomen. Darkroom chemistry, beam restriction devices and introduction to contrast mediums. One hour lecture, three hours laboratory weekly. Prerequisite: RADT 14000 and HED 14020.

14002 Introduction to Patient Care (3)

Medicolegal aspects of patient care, ethics, nursing procedures for radiographic examinations, techniques, radiography and taking and recording vital signs. Introduction to venipuncture and clinical pharmacology. Prerequisite: RADT 14000 and HED 14020.

14004 Radiologic Physics (4)

~~Introduction to concepts of physics. Study of the X-ray machine circuit and components, the production of X-rays and their interaction with matter. Prerequisite: admission to program.~~

Introduction to general physics, units and measurement, atomic structure, electricity, magnetism, electromagnetism, x-ray circuitry equipment, x-ray production. Prerequisite: RADT 14019. Corequisite RADT 24024.

14010 Clinical Education I (1)

~~Supervised experience and observation with emphasis on basic radiological examinations, patient care, professionalism and the procedures covered in RADT 14020. Competency testing begins. Assigned to a clinical education center 16-20 hours per week. Prerequisite: RADT 14001. Corequisites: RADT 14020 and BSCI 11000.~~

Supervised experience and observation with emphasis on clinical practice of basic skills of radiologic technology and the exams covered in Radiographic Procedures I. Competency testing begins. Students assigned to clinical education setting 24 hours per week. Prerequisite RADT 14001. Corequisite RADT 14020.

14011 Clinical Education II (1)

Continuation of Clinical Education I, with emphasis on clinical practice of basic skills of radiologic technology and the examinations covered in RADT 14021. Competency testing continues. Assigned to a clinical education center 16-20 hours per week. Prerequisite: RADT 14010, 14019, 14020; BSCI 11000. Corequisite: RADT 14021.

14012 Clinical Education III (1)

Continuation of Clinical Education II, with more emphasis on independent clinical practice of procedures previously mastered and problem solving. Competency testing continues. Assigned to a clinical education center for 40 hours per week for five weeks. Prerequisite: RADT 14011, 14021, 14022.

14013 Clinical Education IV (1)

Continuation of Clinical Education III, with emphasis on individual performance and instruction of radiographic procedures and the ability to adapt to unusual situations. Competency testing continues. Assigned to a clinical education center for 40 hours per week for five weeks. Prerequisite: RADT 14012.

14019 Radiographic Exposure and Imaging I (2)

~~Brems and characteristic radiation, Planck's Quantum Theory, radiographic artifacts, silver recovery, intensifying screens, radiographic grids, preparation of exposure charts and introduction to radiographic quality. Two-hour lecture weekly. Prerequisite: RADT 14001. Corequisite: RADT 14020.~~

Equipment used in medical imaging including radiographic x-ray tubes, filtration, beam restrictors, grids, imaging detectors used in intensifying screens and digital imaging, radiographic film and automatic processing. Prerequisite: RADT 14000. Corequisite: RADT 14010

14020 Radiographic Procedures I (5)

Radiographic anatomy and positioning of the upper and lower extremities, pelvic and pectoral girdles, skull, facial bones, sinuses, vertebral column and bony thorax. Four hours lecture, two hours laboratory weekly. Prerequisite: RADT 14002. Corequisite: BSCI 11000.

14021 Radiographic Procedures II (4)

Radiographic anatomy and positioning of the gastrointestinal system, urinary and biliary systems, and trauma patients. Three hours lecture, two hours laboratory weekly. Prerequisite: RADT 14020 and BSCI 11000.

14022 Radiographic Exposure and Imaging II (3)

Aspects of radiographic quality, fluoroscopic equipment, X-ray timers and tomography. Experiments involving the factors that influence radiographic quality. Two hours lecture, two hours laboratory weekly. Prerequisite: RADT 14019.

14096 Individual Investigation in Directed Readings in RADT (3)*

Student selects prescribed number of medical journals, completes questions, paper and presentation. Prerequisite: program admission or graduate of medical imaging program.

21095 Special Topics in Radiologic Technology (2-4)*

(Repeated registration permissible) Student participation course on topics pertinent to radiologic technology. Topics are chosen by the instructor. Students may enroll in course more than once. Prerequisite: special approval of instructor.

INACTIVATE 24000 Medical Terminology (2)

~~Method of construction and recognition of medical terms from Greek and Latin prefixes, suffixes, word roots and combining forms. Radiologic terminology is emphasized.~~

~~Prerequisite: admission to the program.~~

24001 Radiologic Pathology (3)

~~Introduction to disease and injury states and their application to radiologic technology.~~

~~Each anatomical system is discussed and appropriate imaging modalities~~

~~demonstrated. Prerequisites: BSCI 11000; HED 14020; RADT 14002, 24010 and 24020.~~

~~Introduction to disease and injury states and their application to radiologic imaging.~~

~~Each anatomical system and radiologic imaging modality is discussed. Prerequisites:~~

~~BSCI 11010, 11020, HED 14020, RADT 24024. Corequisite RADT 24011.~~

24002 Radiation Protection (3)

Fundamentals of radiation safety. Introduction to state and federal regulations.

Radiation biology. A brief survey of biophysics. Introduction to radiation therapy and oncology. Prerequisites: BSCI 11000 and RADT 14004.

24010 Clinical Education V (1)

Continuation of Clinical Education IV, with emphasis on clinical practice. Begin participation in procedures covered in RADT 24020. Competency testing continues.

Assigned to a clinical education center 24 hours per week. Prerequisite: RADT 14013.

Corequisite: RADT 24020.

24011 Clinical Education VI (1)

Continuation of Clinical Education V, emphasis on advanced clinical practice.

Independent performance on radiographic examinations, participation in specialized radiographic areas covered in RADT 24020. Assigned to a clinical education center 24 hours per week. Prerequisites: RADT 14004, 24001, 24010, 24020. Corequisite: RADT 24022.

24020 Radiographic Procedures III (3)

Advanced radiographic procedures of the nervous, circulatory, urinary, reproductive and digestive systems. Pediatric and geriatric radiography and specialized procedures and equipment. Prerequisite: RADT 14021.

24022 Radiographic Exposure and Imaging III (3)

Evaluation of radiographic systems to assure consistency in the production of quality images. Two hours lecture, two hours laboratory weekly. Prerequisite: RADT 14022.

24048 Radiographic Techniques (3)

Course integrates concepts in radiologic technology for preparation of the radiography certification exam. Prerequisites: BSCI 11000, RADT 14002, 14004, 14022, 24002, 24010, 24020 or program special approval.

Review of radiologic technology to include patient care, anatomy and physiology, radiologic procedures, equipment and image production, radiologic physics, and radiation protection in preparation for the radiography certification exam. Prerequisite courses: BSCI 11020, RADT 14002, 14004, 14022, 24002, 24020.

24058 Diversified Employment (3)

Course features multiple topics in medical imaging to prepare graduates for employment in healthcare. Prerequisite: program admission or graduate of medical imaging program.

24096 Individual Investigation in Radiologic Technology (1)*

Directed research of special interest or need in the student's program. A research paper will be written on an assigned topic in radiologic technology. Prerequisite: RADT 14000.

24196 Individual Investigation in Advanced Readings in RADT (3)*

Course permits scholarly activities for research, study and summary of medical journal articles. Information aids in understanding recent advancements in medical imaging. Prerequisite: program admission or graduate of medical imaging program.

RADIOLOGIC AND IMAGING SCIENCES (RIS)****34003 Radiation Therapy Principles/Practice I (3)**

An overview of cancer, radiation therapy and its physical and technical aspects. Includes the roles/responsibilities of the therapist, treatment parameters, documentation and delivery of patient care, education and procedures. IP grade permissible.

Prerequisite: program admission.

34004 Radiation Therapy Patient Management (3)

Provides the basic concepts in patient assessment and evaluation. Includes communication skills, infection control, nutrition, medications, exams, emergencies, patient transfer techniques, medical ethics and law as applied to radiation therapy. IP grade permissible. Prerequisite: program admission.

34008 Radiation Therapy Physics I (3)

Introduction to radiation therapy physics, including the fundamentals of atomic structure, radiation properties, radiation production, radiation quality, interactions of radiation with matter and principles of radiation detectors. IP grade permissible. Prerequisite: program admission.

34030 Radiation Therapy Clinical Education I (1)

Observation and supervised clinical education with emphasis on administering radiation therapy treatments, simulation, block formation and patient care. Students are assigned to a clinical education site for approximately 16 hours per week. IP grade permissible. Prerequisite: program admission.

34042 Abdominal Sonography I (3)

Anatomy, physiology and pathology of the abdomen; instrumentation and scanning techniques; normal and abnormal sonographic appearances of abdominal structures will be presented. Prerequisite: program admission.

34044 Ultrasound Physics and Instrumentation (3)

Ultrasound principles to include interaction of sound with matter, propagation of sound in tissue, physical units, transducer parameters, image storage and display, quality assurance, bioeffects, image artifacts and physical principles of Doppler. Prerequisite: program admission.

34045 Ultrasound Clinical Education I (2)

Provides clinical education and experience at a clinical site to allow students the opportunity to practice skills necessary to obtain high quality sonographic images, to alter protocols based on patients and to identify image quality problems. IP grade permissible. Prerequisite: program admission.

34052 Abdominal Sonography II (3)

Continuation of RIS 34042; anatomy, physiology, and pathology of the abdomen; instrumentation and scanning techniques; normal and abnormal sonographic appearance of abdominal structures will be presented. Prerequisites: RIS 34042, 34044, 34045, 34083. Corequisite: RIS 44083.

34055 Ultrasound Clinical Education II (3)

Provides clinical education and experience at clinical sites to allow students the opportunity to practice skills necessary to obtain high quality sonographic images, to alter protocols based on patients and to identify image quality problems. IP grade permissible. Prerequisite: RIS 34045. Corequisite: RIS 34062.

34062 Obstetrics and Gynecology Sonography I (3)

Anatomy and pathophysiology of the nonpregnant female pelvis; instrumentation and scanning techniques; normal and abnormal sonographic appearances; and findings of the uterus, fallopian tubes and ovaries will be covered. Prerequisites: RIS 34044, 34045, 34052 and 34083. Corequisites: RIS 34055, 44083.

34065 Ultrasound Clinical Education III (2)

Provides clinical education and experience at a clinical site to allow students the opportunity to practice skills necessary to obtain high quality sonographic images, to alter protocols based on patients and to identify image quality problems. IP grade permissible. Prerequisite: special approval. RIS 34055 Corequisite: RIS 44072.

34082 Small Parts Sonography (1)

Anatomy and pathophysiology of superficial structures; instrumentation and scanning techniques; normal and abnormal sonographic appearances of small structures; correlation with laboratory findings and other imaging modalities will be presented. Prerequisites: RIS 34044, 34083, 44083. Corequisite: RIS 44075.

34083 Sectional Anatomy in Medical Imaging (3)

Presentation of sectional anatomy of the body in the transverse (axial), sagittal and coronal planes as seen in medical images in CT, MRI and diagnostic medical sonography. Prerequisites: program admission and BSCI 11000 or 20020.

41095 Special Topics in Radiologic and Imaging Sciences (1-3)

Courses will consist of various topics in medical imaging designed to enhance learning outcomes. Prerequisites: special approval. Enrollment in RIS concentration: CT, MRI, diagnostic medical Sonography or nuclear medicine.

44001 Patient Management in Nuclear Medicine (3)

Provides a working knowledge of a health care facility's function, basic patient care skills, emergency care, patient communications and professionalism. Includes interactions and care of diverse populations. Prerequisite: program admission.

44002 Nuclear Medicine Procedures I (3)

An introduction to imaging "in vivo" nuclear medicine procedures. Course focuses on the biological, anatomical and physiological aspects involving the skeletal, cardiovascular, respiratory, genitourinary and gastrointestinal organ systems. Prerequisite: program admission.

An anatomical and physiological review of the skeletal, cardiovascular, gastrointestinal endocrine, genitourinary, respiratory, lymphatic and central nervous organ systems is covered. Prerequisite: RIS major. Corequisite: RIS 44001, 44005, 44006, 44011.

44005 Nuclear Medicine Clinical Education I (3)

Provides clinical experience at assigned clinical site. Includes orientation to program and policies, observation of procedures, patient management, radiation safety, equipment orientation and the competency procedure. IP grade permissible. Prerequisite: program admission.

The student will acquire clinical experience in nuclear medicine procedures and patient care at the assigned clinical education site. The course includes an orientation to the program and policies, observations of procedures, patient management, radiopharmacy, radiation safety, quality control, and equipment orientation.

Competency testing begins. Prerequisite: RIS major. Corequisite RIS 44001, 44002, 44006, 44011.

44006 Nuclear Medicine Physics and Instrumentation I (4)

Presents concepts and physical principles of nuclear medicine physics including interactions with matter. Also presents information on radiation detectors and their applications, functions and limitations. Prerequisite: program admission. Corequisite: RIS 44010.

Explores the concepts of the physical principles of nuclear medicine physics including interactions with matter. Radiation detectors and laboratory equipment and their applications, functions and limitations is included. Prerequisite: RIS major. Corequisite RIS 44001, 44002, 44005, 44011.

44010 Nuclear Medicine Clinical Education II (3)

Continuation of RIS 44005. Students apply principles of patient care, structure and function, physics, instrumentation, radiation safety and protection, imaging techniques and radiopharmacy to clinical education. Students begin performing clinical competency exams. IP grade permissible. Prerequisite: RIS 44005.

Continuation of RIS 44005 Clinical Education I will be instructed at both the clinical education sites and Salem Campus, with particular emphasis on clinical procedures covered in RIS 44002 (NM Procedures I) and RIS 44012 (Procedures II). Clinical correlation for Radiopharmacy rotations and RIS 44014 (NM Physics and Instrumentation II) is included. Competency testing continues; proficiency testing begins. Prerequisite: RIS 44005. Corequisite RIS 44012, 44014, 44017.

44011 Nuclear Medicine Radiopharmacy (4)

Includes methodologies, calculations and basic properties of radionuclides. Radiopharmaceutical chemistry is applied and localized and quality control is examined. Includes radiopharmacy management and governing rules and regulations. Prerequisites: RIS 44001, 44002, 44005, 44006, 44010. Corequisite: RIS 44012, 44014, 44015, 44017.

Includes the methodologies, calculations and basic properties of radiopharmaceuticals. Radiopharmaceutical chemistry is applied. Localization methods, quality control, and radiation safety issues are examined. Non-radioactive interventional drugs, radiopharmacy management and governing rules and regulations are also explored.

44012 Nuclear Medicine Procedures II (3)

Emphasis on the biological, anatomical and physiological aspects of nuclear medicine procedures involving the endocrine and central nervous systems, as well as inflammatory, tumor, miscellaneous and pediatric studies. Prerequisites: RIS 44001, 44002, 44005, 44006, 44010. Corequisite: RIS 44011, 44014, 44015, 44017.

Biological, anatomical, physiological and procedural aspects of nuclear medicine as related to the cardiovascular system, the endocrine system, the genitourinary system, inflammatory and tumor imaging, the central nervous system, the gastrointestinal system, the respiratory system and the skeletal system. Prerequisite: RIS 44002. Corequisite RIS 44010.

44013 Radiation Therapy Principles/Practice II (3)

Examines the multidisciplinary treatment approaches. Consists of advanced topics in therapy, chemotherapy, immunotherapy and surgical interventions for combined modalities, for benign conditions and for managing side effects and emergencies. IP grade permissible. Prerequisite: RIS 34003.

44014 Nuclear Medicine Physics and Instrumentation II (3)

Physics and instrumentation of imaging devices is presented to include basic functions, application of principles, quality control and computer applications. Prerequisites: RIS 44002, 44005, 44006, 44010. Corequisite: RIS 44011, 44012, 44015, 44017.

Explores the use and quality control of all nuclear medicine instrumentation, the function of radiation detection devices to include counting and imaging equipment, SPECT and PET instrumentation. Computer applications as related to nuclear medicine is addressed. Prerequisite: RIS 44006. Corequisite RIS 44010.

44015 Nuclear Medicine Clinical Education III (2)

Continuation of RIS 44010 with emphasis on clinical procedures covered in RIS 44012 and equipment in RIS 44014. Competency testing continues. IP grade permissible. Prerequisites: RIS 44001, 44002, 44005, 44006 and 44010. Corequisite: RIS 44011, 44012, 44014 and 44017.

Clinical Education III will be instructed at both the clinical education sites and Salem Campus. Clinical III will emphasize clinical procedures covered in RIS 44012 (NM Procedures II) and RIS 44014 (NM Physics and Instrumentation II). Competency testing and proficiency testing continues. Prerequisite: RIS 44010. Corequisite RIS 44016.

44016 Nuclear Medicine Procedures III (3)

Emphasis on in vitro procedures, immunology, radionuclide therapy, SPECT and PET scanning. Also includes a review of all nuclear medicine procedures. Prerequisites: RIS 44011, 44012, 44014, 44015, 44017. Corequisite: RIS 44020.

Nuclear Medicine hematology and immunology, radionuclide therapy, pediatric imaging, and emerging technologies, including PET oncology imaging. Includes a review of all nuclear medicine procedures covered in RIS 44002 and RIS 44012. Prerequisite: RIS 44012. Corequisite RIS 44015.

44017 Nuclear Medicine Radiation Safety (3)

Presents the units of radiation measurement, dose limits, safety and monitoring devices, safe handling of radioactive materials, licensing requirements, therapeutic doses and the effects of radiation on the body. Prerequisites: RIS 44001, 44002, 44005, 44006, 44010. Corequisite: RIS 44011, 44012, 44014, 44015.

Includes the units of radiation measurement, radiation exposure dose limits, radiation safety regulations and monitoring devices, safe handling and contamination control of

radioactive materials. Also presented are biologic effects of radiation, patient dosimetry, NRC/ODH licensing requirements, rules and regulations, including Title 10CFR Parts 19, 20, and 35. Prerequisite: RIS 44006. Corequisite RIS 44014.

44018 Radiation Therapy Physics II (3)

Continuation of the principles of radiation therapy physics and the study of photon beam dosimetry, electron beam dosimetry and treatment planning. IP grade permissible. Prerequisite: RIS 34008.

44020 Nuclear Medicine Clinical Education IV (2)

Continuation of RIS 44015 with emphasis on advanced procedures, SPECT and PET scanning, advanced and emerging technologies, teleradiology and PACS and critical thinking skills for the clinical site. IP grade permissible. Prerequisite: RIS 44015. Corequisite: RIS 44016.

Clinical Education IV will be instructed at both the clinical education sites and Salem Campus. The course will emphasize advanced procedures, SPECT and PET scanning, advanced and emerging technologies, teleradiology and PACS, and critical thinking skills for the clinical site. Competency testing will be completed. Graduate competency evaluations will be performed. There will be a comprehensive review of all nuclear medicine procedures, physics and instrumentation, radiopharmacy, and radiation health safety. Prerequisite RIS 44015 NM Clinical Education III.

44021 Patient Management in Computed Tomography (CT) (3)

Provides knowledge about care-giving skills for patients undergoing CT exams. Information includes effective communication, problem-solving techniques, patient safety/comfort, patient preparation, monitoring, contrast agents and venipuncture. Prerequisite: admission to program.

44022 Computed Tomography (CT) Imaging Procedures (3)

Presentation of information about CT scanning techniques related to each part of the body as well as special studies. Positioning criteria, protocols and variations from routine exams will be included. Image quality evaluation criteria will be discussed. Prerequisite: program admission.

44024 Physical Principles of Computed Tomography (CT) (3)

Information presented about data acquisition and processing. The components in the image acquisition system are outlined. The software and technical parameters used in the acquisition of images is discussed. Problem-solving methodologies discussed. Prerequisites: program admission, RADT 14004 or equivalent; COMT 11000 or equivalent.



Memo

To: Jan Gibson
From: Jackie Hammonds
Date: 5/1/2008
Re: Changes to RADT

I have reviewed and support the changes to the Radiologic Technology curriculum.

Jackie Hammonds
Program Director
Radiologic Technology
Kent State University Ashtabula