

## **CURRICULUM COMMITTEE**

**November 18, 2011**

### **Minutes**

**Present:** Diane Brice, Carol Buse, Craig Clifton, Tamara Clunis, Matt Craig, Bill Crawford, Kim Davis, Shawn Fouts, Matthew Goodman, Judy Massie, Carol Moore, John Robertson, Mark Usnick, Henry Wyckoff

**Absent:** Bob Austin, Jerry Moller, Jason Norman, Kathy Wetzel

**Others**

**Present:**

### **ARTS & SCIENCES**

#### **Physical Education**

Craig Clifton submitted a request to:

- Update the following course title PHED 1301: ~~Foundations of Physical Education~~ Introduction Physical Fitness and Sport
- Change the department name from Physical Education to Sports and Exercise Sciences
- Replace PHED 1123: Personal Trainer Precertification Lab and PHED 1125: Personal Trainer Precertification Internship in the Group Exercise Leader Option of the PHED.AS degree with PHED 1126: Group Exercise Precertification Lab and PHED 1127: Group Exercise Precertification Internship

Crawford moved, seconded by Wyckoff to approved submitted changes to the PHED courses and program. The motion carried.

Clifton submitted a request to update the Physical Education AS (PHED.AS) program as follows:

- Change the program title to “Sports and Exercise Sciences – Fitness Professional”
- Delete Coaching/Officiating Option from the degree
- Update program description to state: “The SES Fitness Professional curriculum provides basic courses for entering the workforce as a Personal Trainer or Group Exercise Leader. It also provides basic courses for the first two years of a four-year curriculum leading to a Bachelor of Science degree. Students working towards a Bachelor’s degree should plan their program to match the specific requirements of the senior institution of choice. Programs differ significantly. Students must consult with the major advisor for course selection.”
- Update Personal Training Option by:
  - Adding “This option is designed to prepare students to become certified personal trainers through the National Strength and Conditioning

Association(NSCA) as well as give them opportunities to begin work in the health and fitness industry while achieving an associate degree in Personal Training.”

- Replacing BCIS 1305: Business Computer Applications with 3 physical activity courses
- Update Group Exercise Leader Option by:
  - Adding “This option is designed to prepare students to become certified group exercise leaders through the Aerobics and Fitness Association of America (AFAA) as well as give them opportunities to begin work in the health and fitness industry while achieving an associate degree in Group Exercise.”
  - Replacing BCIS 1305: Business Computer Applications with 3 physical activity courses

Craig moved, seconded by Usnick to approve submitted changes to the PHED.AS degree. The motion carried.

Clifton submitted a request to add the following program to the AC catalog:

**Sports and Exercise Sciences- Secondary Coaching (A.S.)**

Program Advisor: Craig Clifton, 371-5299 ([cbclifton@actx.edu](mailto:cbclifton@actx.edu)) or contact Margie Vitale, 371-5079 ([mevitale@actx.edu](mailto:mevitale@actx.edu))

**Associate in Science**

**Major Code - PHED.AS.SES**

The SES Secondary Coaching curriculum is primarily for students who are seeking to coach and teach in the public schools at the junior high or high school levels. It provides basic courses for the first two years of a four-year curriculum leading to a Bachelor of Science degree. Students working towards a Bachelor's degree should plan their program to match the specific requirements of the senior institution of choice. Programs differ significantly. Students must consult with the major advisor for course selection.

**Program Requirements**

**General Education Requirements (42 Semester Hours)**

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***Communication - 9 Hours***

- 
- Speech
  - ENGL 1301 - Freshman Composition I
  - ENGL 1302 - Freshman Composition II

***Social/Behavioral Sciences - 15 Hours***

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- GOVT 2305 - Government of the United States
  - GOVT 2306 - Government of Texas
  - HIST 1301 - History of the United States I
  - HIST 1302 - History of the United States II
  - PHED 1304 - Concepts of Healthful Living

***Humanities - 3 Hours***

- 
- Humanities

***Fine Arts - 3 Hours***

- 
- Fine Arts

**Mathematics - 3 Hours**

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- Mathematics

**Natural Sciences - 8 Hours**

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- Natural Sciences

**Lifetime Fitness - 1 Hour**

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- Lifetime Fitness

**Major Course Requirements (18 Semester Hours)**

- PHED 1301 - Introduction to Physical Fitness and Sport
- PHED 1308 Sports Officiating
- EDUC 1301 Introduction to the Teaching Profession
- EDUC 2301 Introduction to Special Populations
- Any three PHED courses numbered 1102 – 2127 except 1123-1127
- 3 hours of electives- Major advisor will assist student in selection of appropriate courses required by senior institution of choice. These should be in the student's selected second teaching field. Second teaching fields include: Science, Business, English, Computer Science , Math, Social Studies, History, Spanish, Speech Communication

**Total (60 Semester Hours)**

Wyckoff moved, seconded by Goodman to approve the addition of the PHED.AS.SES degree to the AC catalog. The motion carried.

Clifton submitted a request to add the following program to the AC catalog:

**Sports and Exercise Sciences- All Level P.E. (A.S.)**

Program Advisor: Craig Clifton, 371-5299 ([cbclifton@actx.edu](mailto:cbclifton@actx.edu)) or contact Margie Vitale, 371-5079 ([mevitale@actx.edu](mailto:mevitale@actx.edu))

**Associate in Science**

**Major Code - PHED.AS.PE**

The SES All Level P.E. curriculum is primarily for students who are seeking to teach Physical Education in the public schools at the elementary, junior high or high school levels. It provides basic courses for the first two years of a four-year curriculum leading to a Bachelor of Science degree. Students working towards a Bachelor's degree should plan their program to match the specific requirements of the senior institution of choice. Programs differ significantly. Students must consult with the major advisor for course selection.

**Program Requirements**

**General Education Requirements (42 Semester Hours)**

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**Communication - 9 Hours**

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- Speech
- ENGL 1301 - Freshman Composition I
- ENGL 1302 - Freshman Composition II

**Social/Behavioral Sciences - 15 Hours**

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- GOVT 2305 - Government of the United States

- GOVT 2306 - Government of Texas
- HIST 1301 - History of the United States I
- HIST 1302 - History of the United States II
- PHED 1304 - Concepts of Healthful Living

*Humanities - 3 Hours*

- 
- Humanities

*Fine Arts - 3 Hours*

- 
- Fine Arts

*Mathematics - 3 Hours*

- 
- Mathematics

*Natural Sciences - 8 Hours*

- 
- Natural Sciences

*Lifetime Fitness - 1 Hour*

- 
- Lifetime Fitness

**Major Course Requirements(18 Semester hours)**

- PHED 1301 - Introduction to Physical Fitness and Sport
- PHED 1331 Essential Elements of Wellness for Elementary Children
- EDUC 1301 Introduction to the Teaching Profession
- EDUC 2301 Introduction to Special Populations
- Recommended Courses (6 semester hours)

Advisor will assist student in selection of appropriate courses required by senior institution of choice.

**Total (60 Semester Hours)**

Brice moved, seconded by Robertson to approve the addition of the PHED.AS.PE degree to the AC catalog. The motion carried.

## **CAREER & TECHNICAL EDUCATION**

### **Utility Power Worker**

Terry Tucker submitted a request to add consumable lab fees to the following courses:

- |   |       |
|---|-------|
| • ELPT 1321: Introduction to Electrical Safety and Tools      | \$100 |
| • ELPT 1371: Overhead Distribution/Transmission Operations    | \$100 |
| • ELPT 2323: Transformers                                     | \$100 |
| • LNWK 1301: Orientation and Line Skill Fundamentals          | \$100 |
| • LNWK 1371: Underground Distribution/Transmission Operations | \$100 |
| • LNWK 1471: Substations                                      | \$100 |
| • LNWK 2322: Distribution Line Construction                   | \$100 |
| • LNWK 2324: Troubleshooting Distribution Systems             | \$100 |

Robertson moved, seconded by Wyckoff to approve the addition of consumable fees to the Utility Power Worker courses. The motion carried.

## **HEALTH SCIENCES**

### **Radiography**

Becky Burton submitted a request to delete the following courses from the AC course inventory and the Radiography (RADR.AAS) degree:

- RADR 1301: Introduction to Radiography
- RADR 1303: Patient Care
- RADR 1317: Radiographic Anatomy & Physiology I
- RADR 1318: Radiographic Anatomy & Physiology II
- RADR 2340: Sectional Anatomy for Medical Imaging
- RADR 2370: Principles of Radiologic Science
- RADR 2233: Advanced Medical Imaging
- RADR 2266: Practicum VI

Add the following courses to the Radiography (RADR.AAS) requirements:

- BIOL 2401: Human Anatomy & Physiology I
- BIOL 2402: Human Anatomy & Physiology II
- HITT 1305: Medical Terminology I

Add the following courses to the AC course inventory and the Radiography (RADR.AAS) program major course requirements:

- RADR 1202: Radiographic Image Evaluation I  
Scientific process of radiographic image evaluation.  
(2 sem hrs; 2 lec)
- RADR 1250: Radiographic Image Evaluation II  
Assessment of radiographic images.  
(2 sem hrs; 2 lec)
- RADR 1309: Introduction to Radiography and Patient Care  
An overview of the historical development of radiography, basic radiation protection, an introduction to medical terminology, ethical and legal issues for health care professionals, and an orientation to the profession and to the health care system. Patient assessment, infection control procedures, emergency and safety procedures, communication and patient interaction skills, and basic pharmacology are also included.  
(3 sem hrs; 3 lec)
- RADR 2166: Practicum VI  
Practical, general workplace training supported by an individualized learning plan developed by the employer, college and student.  
(1 sem hr; 10 practicum)
- RADR 2240: Sectional Anatomy for Medical Imaging  
Prerequisite: RADR 1167 or Program Director consent  
Anatomic relationships present under various sectional orientations.

(2 sem hrs; 2 lec)

- RADR 2270: Principles of Radiologic Science

Prerequisite: RADR 2313

An exploration of the fundamental principles of physics as they apply to the science of radiology. Includes a study of matter and energy, electricity, magnetism, electromagnetism, motors and generators, current rectification, production and control of high voltage and solid electronic devices used in imaging equipment.

(2 sem hrs; 2 lec)

Update the instruction methods for the following courses:

- RADR 1313: Principles of Radiographic Imaging I  
(3 sem hrs; 3 lec)
- RADR 2305: Principles of Radiographic Imaging II  
(3 sem hrs; 3 lec)

Wyckoff moved, seconded by Clifton to approve all submitted changes to the Radiography (RADR.AAS) curriculum. The motion carried.

### **Nuclear Medicine**

Mark Rowh submitted a request make the following changes to the Nuclear Medicine (NMTT.AAS.NM) curriculum:

- Add CHEM 1105: Introductory Chemistry I Lab
- Replace RADR 2340: Sectional Anatomy for Medical Imaging with RADR 2240: Sectional Anatomy for Medical Imaging

Buse moved, seconded by Massie to approve changes to the Nuclear Medicine (NMTT.AAS.NM) program. The motion carried.

# PHYSICAL EDUCATION

## Curriculum Revision Request Form

|                                  |   |
|----------------------------------|---|
| <b>Division:</b>                 | Behavioral Studies  |
| <b>Department/<br/>Program:</b>  | Physical Education  |
| <b>Prepared by:</b>              | Craig Clifton   |
| <b>Request:</b>                  | <ul style="list-style-type: none"> <li>a. Change the Title of PHED 1301 to "Introduction to Physical Fitness and Sport"</li> <li>b. Change the external name of our department to "Sports and Exercise Sciences." Leave all internal(budget, course rubrics, Human Resources, etc.) naming the same- Physical Education</li> <li>c. In the Group Exercise Leader option, replace PHED 1123-Personal Trainer Pre-Certification Lab and PHED 1125-Personal Trainer Pre-Certification Internship with PHED 1126-Group Exercise Pre-Certification Lab and PHED 1127-Group Exercise Pre-Certification Internship.</li> </ul> |
| <b>Rational:</b>                 | <ul style="list-style-type: none"> <li>a. The name has been changed in the THECB Manual. Changing the title to be consistent with the Manual.</li> <li>b. The new name is more consistent with most other departments of other colleges and universities. It is more up-to-date and sounds more Progressive.</li> <li>c. PHED 1126 and 1127 were created in 2009 but were never replaced in the Group Exercise Leader degree option.</li> </ul>   |
| <b>Effects of<br/>Revisions:</b> |   |
|                                  | A. Faculty / Staff Requirements: No change  |
|                                  | B. Equipment / Facility Requirements: No change   |
|                                  | C. Location: No change  |
|                                  | D. Income Projections: No change  |
| <b>Effective<br/>Date:</b>       | Spring 2012   |
|                                  |   |

| Current  | Proposed  |
|--|---|
| <b>Physical Education (A.S.)</b><br><br>Program Advisor: Craig Clifton, 371-5299<br>(cbclifton@actx.edu) or contact Margie Vitale, 371-5079<br>(mevitale@actx.edu)<br><br><b>Associate in Science</b><br><b>Major Code - PHED.AS</b><br><br>The physical education curriculum provides basic courses for the first two years of a four-year curriculum leading to a Bachelor of Science degree. Students should plan their program to match the specific requirements of the senior institution of choice. Programs differ significantly. Students must consult with the major advisor for course selection.<br><br><b>Program Requirements</b><br><b>General Education Requirements (42 Semester Hours)</b><br><br><hr/> <b>Communication - 9 Hours</b><br><br><ul style="list-style-type: none"> <li>• Speech</li> <li>• ENGL 1301 - Freshman Composition I</li> <li>• ENGL 1302 - Freshman Composition II</li> </ul> <b>Social/Behavioral Sciences - 15 Hours</b><br><br><ul style="list-style-type: none"> <li>• GOVT 2305 - Government of the United States</li> <li>• GOVT 2306 - Government of Texas</li> <li>• HIST 1301 - History of the United States I</li> <li>• HIST 1302 - History of the United States II</li> <li>• PHED 1304 - Concepts of Healthful Living</li> </ul> <b>Humanities - 3 Hours</b><br><br><ul style="list-style-type: none"> <li>• Humanities</li> </ul> <b>Fine Arts - 3 Hours</b><br><br><ul style="list-style-type: none"> <li>• Fine Arts</li> </ul> <b>Mathematics - 3 Hours</b><br><br><ul style="list-style-type: none"> <li>• Mathematics</li> </ul> <b>Natural Sciences - 8 Hours</b><br><br><ul style="list-style-type: none"> <li>• Natural Sciences</li> </ul> <b>Lifetime Fitness - 1 Hour</b><br><br><ul style="list-style-type: none"> <li>• Lifetime Fitness</li> </ul><br><b>Major Options (22 Semester Hours)</b> | <b>Sports and Exercise Sciences (A.S.)</b><br><br>Program Advisor: Craig Clifton, 371-5299<br>(cbclifton@actx.edu) or contact Margie Vitale, 371-5079<br>(mevitale@actx.edu)<br><br><b>Associate in Science</b><br><b>Major Code - PHED.AS</b><br><br>The <del>Sports and Exercise Sciences</del> curriculum provides basic courses for the first two years of a four-year curriculum leading to a Bachelor of Science degree. Students should plan their program to match the specific requirements of the senior institution of choice. Programs differ significantly. Students must consult with the major advisor for course selection.<br><br><b>Program Requirements</b><br><b>General Education Requirements (42 Semester Hours)</b><br><br><hr/> <b>Communication - 9 Hours</b><br><br><ul style="list-style-type: none"> <li>• Speech</li> <li>• ENGL 1301 - Freshman Composition I</li> <li>• ENGL 1302 - Freshman Composition II</li> </ul> <b>Social/Behavioral Sciences - 15 Hours</b><br><br><ul style="list-style-type: none"> <li>• GOVT 2305 - Government of the United States</li> <li>• GOVT 2306 - Government of Texas</li> <li>• HIST 1301 - History of the United States I</li> <li>• HIST 1302 - History of the United States II</li> <li>• PHED 1304 - Concepts of Healthful Living</li> </ul> <b>Humanities - 3 Hours</b><br><br><ul style="list-style-type: none"> <li>• Humanities</li> </ul> <b>Fine Arts - 3 Hours</b><br><br><ul style="list-style-type: none"> <li>• Fine Arts</li> </ul> <b>Mathematics - 3 Hours</b><br><br><ul style="list-style-type: none"> <li>• Mathematics</li> </ul> <b>Natural Sciences - 8 Hours</b><br><br><ul style="list-style-type: none"> <li>• Natural Sciences</li> </ul> <b>Lifetime Fitness - 1 Hour</b><br><br><ul style="list-style-type: none"> <li>• Lifetime Fitness</li> </ul><br><b>Major Options (22 Semester Hours)</b> |



Student should complete one of the following options.

***Coaching/Officiating Option (22 Semester Hours)***

Major advisor will assist student in selection of 12 hours of appropriate courses required by senior institution of choice. These should be in the student's selected second teaching field. Second teaching fields include: Agriculture, English Language Arts, History, Life Science, Mathematics, Physical Science, Science, Social Studies, or Spanish.

- BCIS 1305 - Business Computer Applications
- PHED 1101 - Lifetime Fitness
- PHED 1301 - Foundations of Physical Education
- PHED 1308 - Sports Officiating I

***Personal Training Option (22 Semester Hours)***

- BCIS 1305 - Business Computer Applications
- BIOL 2401 - Human Anatomy and Physiology I
- BIOL 2402 - Human Anatomy and Physiology II
- PHED 1101 - Lifetime Fitness
- PHED 1123 - Personal Trainer Precertification Lab
- PHED 1125 - Personal Trainer Precertification Internship
- PHED 1271 - Personal Trainer Precertification
- PHED 1301 - Foundations of Physical Education
- PHED 1306 - Standard First Aid and CPR Training

***Group Exercise Leader Option (22 Semester Hours)***

- BCIS 1305 - Business Computer Applications
- BIOL 2401 - Human Anatomy and Physiology I
- BIOL 2402 - Human Anatomy and Physiology II
- PHED 1101 - Lifetime Fitness
- ~~PHED 1123 - Personal Trainer Precertification Lab~~
- ~~PHED 1125 - Personal Trainer Precertification Internship~~
- PHED 1272 - Group Exercise Leader Precertification
- PHED 1301 - Introduction to Physical Fitness and Sport
- PHED 1306 - Standard First Aid and CPR Training

**Total (64 Semester Hours)**

Student should complete one of the following options.

***Coaching/Officiating Option (22 Semester Hours)***

Major advisor will assist student in selection of 12 hours of appropriate courses required by senior institution of choice. These should be in the student's selected second teaching field. Second teaching fields include: Agriculture, English Language Arts, History, Life Science, Mathematics, Physical Science, Science, Social Studies, or Spanish.

- BCIS 1305 - Business Computer Applications
- PHED 1101 - Lifetime Fitness
- PHED 1301 - Foundations of Physical Education
- PHED 1308 - Sports Officiating I

***Personal Training Option (22 Semester Hours)***

- BCIS 1305 - Business Computer Applications
- BIOL 2401 - Human Anatomy and Physiology I
- BIOL 2402 - Human Anatomy and Physiology II
- PHED 1101 - Lifetime Fitness
- PHED 1123 - Personal Trainer Precertification Lab
- PHED 1125 - Personal Trainer Precertification Internship
- PHED 1271 - Personal Trainer Precertification
- PHED 1301 - Introduction to Physical Fitness and Sport
- PHED 1306 - Standard First Aid and CPR Training

***Group Exercise Leader Option (22 Semester Hours)***

- BIOL 2401 - Human Anatomy and Physiology I
- BIOL 2402 - Human Anatomy and Physiology II
- PHED 1101 - Lifetime Fitness
- ~~PHED 1126 - Group Exercise Precertification Lab~~
- ~~PHED 1127 - Group Exercise Precertification Internship~~
- PHED 1272 - Group Exercise Leader Precertification
- PHED 1301 - Introduction to Physical Fitness and Sport
- PHED 1306 - Standard First Aid and CPR Training

**Total (64 Semester Hours)**

# SPORTS AND EXERCISE SCIENCES (PHSICAL EDUCATION)

## Curriculum Revision Request Form

|                                  |  |
|----------------------------------|--|
| <b>Division:</b>                 | Behavioral Studies   |
| <b>Department/<br/>Program:</b>  | Physical Education   |
| <b>Prepared by:</b>              | Craig Clifton  |
| <b>Request:</b>                  | <p>a. Make the following changes to the current Physical Education A.S. degree plan:</p> <ol style="list-style-type: none"> <li>1) Rename the Degree, "Sports and Exercise Sciences- Fitness Professional."</li> <li>2) Take the coaching option completely out of the degree.</li> <li>3) Remove BCIS 1305 from the major options. Replace with 3 hours of PHED activity courses.</li> <li>4) Change degree description.</li> <li>5) Add descriptions to the degree options.</li> </ol> |
| <b>Rational:</b>                 | <p>a. 1) The name is consistent with the new department name and more descriptive of the degree.</p> <p>2) A separate degree plan for Coaching will be created, eliminating the need for the option in this degree.</p> <p>3) These courses are more appropriate for the degree plan.</p> <p>4) The description needs to be updated.</p> <p>5) Descriptions with the degree options will help clarify what the options are.</p>  |
| <b>Effects of<br/>Revisions:</b> |  |
|                                  | A. Faculty / Staff Requirements: No change   |
|                                  | B. Equipment / Facility Requirements: No change  |
|                                  | C. Location: No change   |
|                                  | D. Income Projections: No change   |
| <b>Effective<br/>Date:</b>       | Spring 2012  |
|                                  |  |

| Current   | Proposed  |
|---|---|
| <b>Physical Education (A.S.)</b><br><br>Program Advisor: Craig Clifton, 371-5299<br>(cbclifton@actx.edu) or contact Margie Vitale, 371-5079<br>(mevitale@actx.edu)<br><br><b>Associate in Science</b><br><b>Major Code - PHED.AS</b><br><br>The physical education curriculum provides basic courses for the first two years of a four-year curriculum leading to a Bachelor of Science degree. Students should plan their program to match the specific requirements of the senior institution of choice. Programs differ significantly. Students must consult with the major advisor for course selection.<br><br><b>Program Requirements</b><br><b>General Education Requirements (42 Semester Hours)</b><br><br><hr/> <b>Communication - 9 Hours</b><br><br><ul style="list-style-type: none"> <li>• Speech</li> <li>• ENGL 1301 - Freshman Composition I</li> <li>• ENGL 1302 - Freshman Composition II</li> </ul> <hr/> <b>Social/Behavioral Sciences - 15 Hours</b><br><br><ul style="list-style-type: none"> <li>• GOVT 2305 - Government of the United States</li> <li>• GOVT 2306 - Government of Texas</li> <li>• HIST 1301 - History of the United States I</li> <li>• HIST 1302 - History of the United States II</li> <li>• PHED 1304 - Concepts of Healthful Living</li> </ul> <hr/> <b>Humanities - 3 Hours</b><br><br><ul style="list-style-type: none"> <li>• Humanities</li> </ul> <hr/> <b>Fine Arts - 3 Hours</b><br><br><ul style="list-style-type: none"> <li>• Fine Arts</li> </ul> <hr/> <b>Mathematics - 3 Hours</b><br><br><ul style="list-style-type: none"> <li>• Mathematics</li> </ul> <hr/> <b>Natural Sciences - 8 Hours</b><br><br><ul style="list-style-type: none"> <li>• Natural Sciences</li> </ul> <hr/> <b>Lifetime Fitness - 1 Hour</b><br><br><ul style="list-style-type: none"> <li>• Lifetime Fitness</li> </ul> <hr/> <b>Major Options (22 Semester Hours)</b> | <b>Sports and Exercise Sciences Fitness Professional (A.S.)</b><br><br>Program Advisor: Craig Clifton, 371-5299<br>(cbclifton@actx.edu) or contact Margie Vitale, 371-5079<br>(mevitale@actx.edu)<br><br><b>Associate in Science</b><br><b>Major Code - <del>PHED.SES.AS</del> PHED.AS</b><br><br>The SES Fitness Professional curriculum provides basic courses for entering the workforce as a Personal Trainer or Group Exercise Leader. It also provides basic courses for the first two years of a four-year curriculum leading to a Bachelor of Science degree. Students working towards a Bachelor's degree should plan their program to match the specific requirements of the senior institution of choice. Programs differ significantly. Students must consult with the major advisor for course selection.<br><br><b>Program Requirements</b><br><b>General Education Requirements (42 Semester Hours)</b><br><br><hr/> <b>Communication - 9 Hours</b><br><br><ul style="list-style-type: none"> <li>• Speech</li> <li>• ENGL 1301 - Freshman Composition I</li> <li>• ENGL 1302 - Freshman Composition II</li> </ul> <hr/> <b>Social/Behavioral Sciences - 15 Hours</b><br><br><ul style="list-style-type: none"> <li>• GOVT 2305 - Government of the United States</li> <li>• GOVT 2306 - Government of Texas</li> <li>• HIST 1301 - History of the United States I</li> <li>• HIST 1302 - History of the United States II</li> <li>• PHED 1304 - Concepts of Healthful Living</li> </ul> <hr/> <b>Humanities - 3 Hours</b><br><br><ul style="list-style-type: none"> <li>• Humanities</li> </ul> <hr/> <b>Fine Arts - 3 Hours</b><br><br><ul style="list-style-type: none"> <li>• Fine Arts</li> </ul> <hr/> <b>Mathematics - 3 Hours</b><br><br><ul style="list-style-type: none"> <li>• Mathematics</li> </ul> <hr/> <b>Natural Sciences - 8 Hours</b><br><br><ul style="list-style-type: none"> <li>• Natural Sciences</li> </ul> <hr/> <b>Lifetime Fitness - 1 Hour</b><br><br><ul style="list-style-type: none"> <li>• Lifetime Fitness</li> </ul> <hr/> <b>Major Options (22 Semester Hours)</b> |

Student should complete one of the following options.

***Coaching/Officiating Option (22 Semester Hours)***

major advisor will assist student in selection of 12 hours of appropriate courses required by senior institution of choice. These should be in the student's selected second teaching field. Second teaching fields include: Agriculture, English Language Arts, History, Life Science, Mathematics, Physical Science, Science, Social Studies, or Spanish.

- ~~BCIS 1305 - Business Computer Applications~~
- ~~PHED 1101 - Lifetime Fitness~~
- ~~PHED 1301 - Foundations of Physical Education~~
- ~~PHED 1308 - Sports Officiating I~~

***Personal Training Option (22 Semester Hours)***

- ~~BCIS 1305 - Business Computer Applications~~
- BIOL 2401 - Human Anatomy and Physiology I
- BIOL 2402 - Human Anatomy and Physiology II
- PHED 1101 - Lifetime Fitness
- PHED 1123 - Personal Trainer Precertification Lab
- PHED 1125 - Personal Trainer Precertification Internship
- PHED 1271 - Personal Trainer Precertification
- PHED 1301 - Foundations of Physical Education
- PHED 1306 - Standard First Aid and CPR Training

***Group Exercise Leader Option (22 Semester Hours)***

- ~~BCIS 1305 - Business Computer Applications~~
- BIOL 2401 - Human Anatomy and Physiology I
- BIOL 2402 - Human Anatomy and Physiology II
- PHED 1101 - Lifetime Fitness
- PHED 1123 - Personal Trainer Precertification Lab
- PHED 1125 - Personal Trainer Precertification Internship
- PHED 1272 - Group Exercise Leader Precertification
- PHED 1301 - Introduction to Physical Fitness and Sport
- PHED 1306 - Standard First Aid and CPR Training

**Total (64 Semester Hours)**

Student should complete one of the following options.

***Personal Training Option (22 Semester Hours)***

This option is designed to prepare students to become certified personal trainers through the National Strength and Conditioning Association (NSCA) as well as give them opportunities to begin work in the health and fitness industry while achieving an associate degree in Personal Training.

- PHED 1301 - Introduction to Physical Fitness and Sport
- Any three PHED courses numbered 1102 - 2128 except 1123 - 1127
- BIOL 2401 - Human Anatomy and Physiology I
- BIOL 2402 - Human Anatomy and Physiology II
- PHED 1101 Lifetime Fitness
- PHED 1123 - Personal Trainer Precertification Lab
- PHED 1125 - Personal Trainer Precertification Internship
- PHED 1271 - Personal Trainer Precertification
- PHED 1306 - Standard First Aid and CPR training

***Group Exercise Leader Option (22 Semester Hours)***

This option is designed to prepare students to become certified group exercise leaders through the Aerobics and Fitness Association of America (AFAA) as well as give them opportunities to begin work in the health and fitness industry while achieving an associate degree in Group Exercise.

- PHED 1301 - Introduction to Physical Fitness and Sport
- Any three PHED courses numbered 1102 - 2128 except 1123 - 1127
- BIOL 2401 - Human Anatomy and Physiology I
- BIOL 2402 - Human Anatomy and Physiology I
- PHED 1101 Lifetime Fitness
- PHED 1126 - Group Exercise Precertification Lab
- PHED 1127 - Group Exercise Precertification Internship
- PHED 1272 - Group Exercise Leader Precertification
- PHED 1306 - Standard First Aid and CPR Training

**Total (64 Semester Hours)**

# SPORTS AND EXERCISE SCIENCES (PHSICAL EDUCATION)

## Curriculum Revision Request Form

|                                 |   |
|---------------------------------|---|
| <b>Division:</b>                | Behavioral Studies  |
| <b>Department/<br/>Program:</b> | Physical Education  |
| <b>Prepared by:</b>             | Craig Clifton   |
| <b>Request:</b>                 | a. Create a new degree plan for students who want to Coach and Teach at the Junior High/High school levels.   |
| <b>Rational:</b>                | a. The current degree plan is a "one size fits all" plan that lumps students who want to Coach/Teach with students who want to become non-teaching Fitness Professionals and with students who just want to teach Physical Education. The new degree plan will make a clear distinction between the three options and will make a clear choice for students who are looking at the degree plans in the catalog. It will also make a clearer distinction for advisors who are advising students who want to coach in the public schools. Currently the majority of these students are being advised towards the education degree and these students are not taking classes that they could be taking at AC(classes required at 4 yr. institutions for education majors who want to coach). This degree plan is more consistent with 4 yr degree plans and will be a smoother transfer for the student. These students will be better served in a major that is more specific to their degree choice. |
| <b>Effects of Revisions:</b>    |   |
|                                 | A. Faculty / Staff Requirements: Enrollment will increase significantly in two specific classes.  |
|                                 | B. Equipment / Facility Requirements: No change   |
|                                 | C. Location: No change  |
|                                 | D. Income Projections: Increased contact hours and increased income.  |
| <b>Effective Date:</b>          | Spring 2012   |
|                                 |   |

| Current | Proposed   |
|---------|--|
|         | <p data-bbox="797 199 1430 268"><b>Sports and Exercise Sciences- Secondary Coaching (A.S.)</b></p> <p data-bbox="797 275 1430 365">Program Advisor: Craig Clifton, 371-5299 (cbclifton@actx.edu) or contact Margie Vitale, 371-5079 (mevitale@actx.edu)</p> <p data-bbox="797 390 1045 420"><b>Associate in Science</b></p> <p data-bbox="797 422 1065 451"><b>Major Code - PHED.AS</b></p> <p data-bbox="1096 359 1356 451"><i>AS.SES<br/>PHED.SES-AS</i></p> <p data-bbox="797 474 1466 756">The SES Secondary Coaching curriculum is primarily for students who are seeking to coach and teach in the public schools at the junior high or high school levels. It provides basic courses for the first two years of a four-year curriculum leading to a Bachelor of Science degree. Students working towards a Bachelor's degree should plan their program to match the specific requirements of the senior institution of choice. Programs differ significantly. Students must consult with the major advisor for course selection.</p> <p data-bbox="797 779 1466 879"><b>Program Requirements</b><br/><b>General Education Requirements (42 Semester Hours)</b></p> <hr/> <p data-bbox="797 913 1131 942"><b>Communication - 9 Hours</b></p> <hr/> <ul data-bbox="836 980 1336 1089" style="list-style-type: none"> <li>• Speech</li> <li>• ENGL 1301 - Freshman Composition I</li> <li>• ENGL 1302 - Freshman Composition II</li> </ul> <p data-bbox="797 1098 1295 1127"><b>Social/Behavioral Sciences - 15 Hours</b></p> <hr/> <ul data-bbox="836 1165 1424 1352" style="list-style-type: none"> <li>• GOVT 2305 - Government of the United States</li> <li>• GOVT 2306 - Government of Texas</li> <li>• HIST 1301 - History of the United States I</li> <li>• HIST 1302 - History of the United States II</li> <li>• PHED 1304 - Concepts of Healthful Living</li> </ul> <p data-bbox="797 1360 1070 1390"><b>Humanities - 3 Hours</b></p> <hr/> <ul data-bbox="836 1428 1016 1455" style="list-style-type: none"> <li>• Humanities</li> </ul> <p data-bbox="797 1463 1040 1493"><b>Fine Arts - 3 Hours</b></p> <hr/> <ul data-bbox="836 1530 989 1558" style="list-style-type: none"> <li>• Fine Arts</li> </ul> <p data-bbox="797 1566 1088 1596"><b>Mathematics - 3 Hours</b></p> <hr/> <ul data-bbox="836 1633 1032 1661" style="list-style-type: none"> <li>• Mathematics</li> </ul> <p data-bbox="797 1669 1143 1698"><b>Natural Sciences - 8 Hours</b></p> <hr/> <ul data-bbox="836 1736 1081 1764" style="list-style-type: none"> <li>• Natural Sciences</li> </ul> <p data-bbox="797 1772 1117 1801"><b>Lifetime Fitness - 1 Hour</b></p> <hr/> <ul data-bbox="836 1839 1068 1866" style="list-style-type: none"> <li>• Lifetime Fitness</li> </ul> |

|  |   |
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|  | <p><b>Major Course Requirements (18 Semester Hours)</b></p> <ul style="list-style-type: none"> <li>• PHED 1301 - Introduction to Physical Fitness and Sport</li> <li>• PHED 1308 Sports Officiating</li> <li>• EDUC 1301 Introduction to the Teaching Profession</li> <li>• EDUC 2301 Introduction to Special Populations</li> <li>• Any three PHED courses numbered 1102 – 2127 except 1123-1127</li> <li>• <b>3 hours of electives-</b> Major advisor will assist student in selection of appropriate courses required by senior institution of choice. These should be in the student's selected second teaching field. Second teaching fields include: Science, Business, English, Computer Science , Math, Social Studies, History, Spanish, Speech Communication</li> </ul> <p><b>Total (60 Semester Hours)</b></p> |
|  |   |
|  |   |

## SPORTS AND EXERCISE SCIENCES (PHSICAL EDUCATION)

### Curriculum Revision Request Form

|                                  |  |
|----------------------------------|--|
| <b>Division:</b>                 | Behavioral Studies   |
| <b>Department/<br/>Program:</b>  | Physical Education   |
| <b>Prepared by:</b>              | Craig Clifton  |
| <b>Request:</b>                  | a. Create a new degree plan for students who want to Teach Physical Education in the public schools: Sports and Exercise Sciences- All Level P.E. (A.S.)   |
| <b>Rational:</b>                 | a. The current degree plan is a "one size fits all" plan that lumps students who want to teach Physical Education with students who want to become non-teaching Fitness Professionals and with students who want to coach. The new degree plan will make a clear distinction between the three options and will make a clear choice for students who are looking at the degree plans in the catalog. It will also make a clearer distinction for advisors who are advising students who want to teach P.E. in the public schools. Currently the majority of these students are being advised into the education degree and these students are not taking classes that they could be taking at AC(classes required at 4 yr. institutions for education majors who want to teach Physical Education only). This degree plan is more consistent with 4 yr degree plans and will be a smoother transfer for the student. These students will be better served in a major that is more specific to their degree choice. |
| <b>Effects of<br/>Revisions:</b> |  |
|                                  | A. Faculty / Staff Requirements: Enrollment will increase significantly in two specific classes.   |
|                                  | B. Equipment / Facility Requirements: No change  |
|                                  | C. Location: No change   |
|                                  | D. Income Projections: Increased contact hours and increased income.   |
| <b>Effective<br/>Date:</b>       | Spring 2012  |
|                                  |  |



| Current | Proposed  |
|---------|---|
|         | <p data-bbox="800 195 1466 268"><b>Sports and Exercise Sciences- All Level P.E. (A.S.)</b></p> <p data-bbox="800 270 1433 363">Program Advisor: Craig Clifton, 371-5299<br/>(cbclifton@actx.edu) or contact Margie Vitale, 371-5079<br/>(mevitale@actx.edu)</p> <p data-bbox="800 384 1166 447"><b>Associate in Science <i>AS.PE</i></b><br/><b>Major Code - PHED.PE.AS</b></p> <p data-bbox="800 468 1498 751">The SES All Level P.E. curriculum is primarily for students who are seeking to teach Physical Education in the public schools at the elementary, junior high or high school levels. It provides basic courses for the first two years of a four-year curriculum leading to a Bachelor of Science degree. Students working towards a Bachelor's degree should plan their program to match the specific requirements of the senior institution of choice. Programs differ significantly. Students must consult with the major advisor for course selection.</p> <p data-bbox="800 772 1474 877"><b>Program Requirements</b><br/><b>General Education Requirements (42 Semester Hours)</b></p> <hr/> <p data-bbox="800 909 1136 940"><b><i>Communication - 9 Hours</i></b></p> <hr/> <ul data-bbox="841 972 1344 1087" style="list-style-type: none"> <li>• Speech</li> <li>• ENGL 1301 - Freshman Composition I</li> <li>• ENGL 1302 - Freshman Composition II</li> </ul> <p data-bbox="800 1098 1299 1129"><b><i>Social/Behavioral Sciences - 15 Hours</i></b></p> <hr/> <ul data-bbox="841 1161 1433 1350" style="list-style-type: none"> <li>• GOVT 2305 - Government of the United States</li> <li>• GOVT 2306 - Government of Texas</li> <li>• HIST 1301 - History of the United States I</li> <li>• HIST 1302 - History of the United States II</li> <li>• PHED 1304 - Concepts of Healthful Living</li> </ul> <p data-bbox="800 1360 1076 1392"><b><i>Humanities - 3 Hours</i></b></p> <hr/> <ul data-bbox="841 1423 1023 1455" style="list-style-type: none"> <li>• Humanities</li> </ul> <p data-bbox="800 1465 1047 1497"><b><i>Fine Arts - 3 Hours</i></b></p> <hr/> <ul data-bbox="841 1528 995 1560" style="list-style-type: none"> <li>• Fine Arts</li> </ul> <p data-bbox="800 1570 1096 1602"><b><i>Mathematics - 3 Hours</i></b></p> <hr/> <ul data-bbox="841 1633 1039 1665" style="list-style-type: none"> <li>• Mathematics</li> </ul> <p data-bbox="800 1675 1149 1707"><b><i>Natural Sciences - 8 Hours</i></b></p> <hr/> <ul data-bbox="841 1738 1088 1770" style="list-style-type: none"> <li>• Natural Sciences</li> </ul> <p data-bbox="800 1780 1125 1812"><b><i>Lifetime Fitness - 1 Hour</i></b></p> <hr/> <ul data-bbox="841 1843 1076 1875" style="list-style-type: none"> <li>• Lifetime Fitness</li> </ul> |

|  |   |
|--|---|
|  | <b>Major Course Requirements(18 Semester hours)</b> <ul style="list-style-type: none"><li>• PHED 1301 - Introduction to Physical Fitness and Sport</li><li>• PHED 1331 Essential Elements of Wellness for Elementary Children</li><li>• EDUC 1301 Introduction to the Teaching Profession</li><li>• EDUC 2301 Introduction to Special Populations</li><li>• Recommended Courses (6 semester hours)<br/>Advisor will assist student in selection of appropriate courses required by senior institution of choice.</li></ul> <b>Total (60 Semester Hours)</b> |
|  |   |
|  |   |

## **Utility Power Worker**

### **Consumable Lab Fees**

Effective as of January 1, 2012

|  |       |
|--|-------|
| ELPT 1321 - Introduction to Electrical Safety and Tools      | \$100 |
| ELPT 1371 - Overhead Distribution/Transmission Operations    | \$100 |
| ELPT 2323 – Transformers                                     | \$100 |
| LNWK 1301 - Orientation and Line Skill Fundamentals          | \$100 |
| LNWK 1371 - Underground Distribution/Transmission Operations | \$100 |
| LNWK 1471 – Substations                                      | \$100 |
| LNWK 2322 - Distribution Line Construction                   | \$100 |
| LNWK 2324 - Troubleshooting Distribution Systems             | \$100 |

## Curriculum Revision Request Form

1. Division: Health Sciences

2. Department/Program: Radiography

3. Prepared By: Becky Burton

4. Request:

Delete the following courses from the program and General Catalog:

- a. RADR 1301 – Introduction to Radiography
- b. RADR 1303 – Patient Care
- c. RADR 1317 – Radiographic Anatomy & Physiology I
- ✓ d. RADR 1318 – Radiographic Anatomy & Physiology II
- e. RADR 2340 – Sectional Anatomy for Medical Imaging
- f. RADR 2370 – Principles of Radiologic Science
- g. RADR 2233 – Advanced Medical Imaging
- h. RADR 2266 – Practicum VI

Request:

Add the following courses to the program:

- a. BIOL 2401 – Human Anatomy & Physiology I
- b. BIOL 2402 – Human Anatomy & Physiology II
- c. HITT 1305 – Medical Terminology I

Request:

Add the following courses to the program and General Catalog:

- a. ✓ RADR 1202 – Radiographic Image Evaluation I
- b. ✓ RADR 1250 – Radiographic Image Evaluation II
- c. ✓ RADR 1309 – Introduction to Radiography and Patient Care
- d. ✓ RADR 2166 – Practicum VI
- e. ✓ RADR 2240 – Sectional Anatomy for Medical Imaging
- f. ✓ RADR 2270 – Principles of Radiologic Science

Request:

Change of format of lecture/lab:

- ✓ a. RADR 1313 – Principles of Radiographic Imaging I from 2 lec/3 lab to 3 lecture only
- b. RADR 2305 – Principles of Radiographic Imaging I from 2 lec/3 lab to 3 lecture only

5. Rationale/Justification:

- a. All requested course deletions and additions result from the recent adoption of Health Sciences Career Cluster core course mandates.
- b. Requests for change of lecture/lab formats result from mandated changes in curriculum guidelines to accredited radiography programs by the American Society of Radiologic Technologists (ASRT).

6. Effects of revision:

- a. Faculty and staff requirements: Part-time instruction will be reduced by 3 per fall semester and 4 hours per spring semester
- b. Equipment/Facility requirements
- c. Location
- d. Income projection

7. Effective Date: August 2012

## Radiography (A.A.S.)

Program Advisor: Becky Burton, 354-6099  
(bkburton@actx.edu) or contact Cherie Clifton, 354-6007  
(cacclifton@actx.edu)

### Associate in Applied Science

#### Major Code - RADR.AAS

This program provides the basic skills required of a beginning staff radiologic technologist practicing in radiography (x-ray technology). Upon satisfactory completion of the curriculum, the graduate will be eligible to write the national certification examination administered by the American Registry of Radiologic Technologists.

To continue in the program, a student may repeat a RADR course only one time and may repeat no more than two RADR courses while enrolled in the program. The term "repeat" shall be interpreted to mean re-enrollment following withdrawal, drop or unsatisfactory grade. A student will have 36 months to complete all major requirements.

A grade of C or higher is required for satisfactory completion of each course.

A student seeking entry into Radiography must file a specific program application form and complete additional admission procedures as required. Information is available on the Radiography website: [www.actx.edu/radiography](http://www.actx.edu/radiography)

#### General Education Requirements (45 Semester Hours)

##### Communication - 6 Hours

ENGL 1301 - Freshman Composition I  
SPCH 1318 - Interpersonal Communication  
(or any approved Speech\*)

##### Humanities/Fine Arts\* - 3 Hours

##### Mathematics/Natural Sciences - 3 Hours

MATH 1332 - Contemporary Mathematics I  
(or any college level Mathematics course)

##### Social/Behavioral Sciences\* - 3 Hours

#### Major Course Requirements (56 Semester Hours)

RADR 1166 - Practicum III  
RADR 1167 - Practicum I  
RADR 1267 - Practicum II  
~~RADR 1301 - Introduction to Radiography~~  
~~RADR 1303 - Patient Care~~  
RADR 1411 - Basic Radiographic Procedures  
RADR 1313 - Principles of Radiographic Imaging I  
~~RADR 1317 - Radiographic Anatomy and Physiology I~~  
~~RADR 1318 - Radiographic Anatomy and Physiology II~~  
RADR 2217 - Radiographic Pathology  
~~RADR 2233 - Advanced Medical Imaging~~  
RADR 2235 - Radiologic Technology seminar  
~~RADR 2266 - Practicum VI~~  
RADR 2401 - Intermediate Radiographic Procedures  
RADR 2305 - Principles of Radiographic Imaging II  
RADR 2309 - Radiographic Imaging Equipment  
RADR 2313 - Radiation Biology and Protection  
~~RADR 2340 - Sectional Anatomy for Medical Imaging~~  
RADR 2366 - Practicum IV  
RADR 2367 - Practicum V  
~~RADR 2370 - Principles of Radiologic Science~~

Total (74 Semester Hours)

## Radiography (A.A.S.)

Program Advisor: Becky Burton, 354-6099  
(bkburton@actx.edu) or contact Cherie Clifton, 354-6007  
(cacclifton@actx.edu)

### Associate in Applied Science

#### Major Code - RADR.AAS

This program provides the basic skills required of a beginning staff radiologic technologist practicing in radiography (x-ray technology). Upon satisfactory completion of the curriculum, the graduate will be eligible to write the national certification examination administered by the American Registry of Radiologic Technologists.

To continue in the program, a student may repeat a RADR course only one time and may repeat no more than two RADR courses while enrolled in the program. The term "repeat" shall be interpreted to mean re-enrollment following withdrawal, drop or unsatisfactory grade. A student will have 36 months to complete all major requirements.

A grade of C or higher is required for satisfactory completion of each course.

A student seeking entry into Radiography must file a specific program application form and complete additional admission procedures as required. Information is available on the Radiography website: [www.actx.edu/radiography](http://www.actx.edu/radiography)

#### General Education Requirements (23 Semester Hours)

##### Communication - 6 Hours

ENGL 1301 - Freshman Composition I  
SPCH 1318 - Interpersonal Communication  
(or any approved Speech\*)

##### Humanities/Fine Arts\* - 3 Hours

##### Mathematics/Natural Sciences - 11 hours

MATH 1332 - Contemporary Mathematics I  
(or any college level Mathematics course)

~~BIOL 2401 - Human Anatomy & Physiology I~~

~~BIOL 2402 - Human Anatomy & Physiology II~~

##### Social/Behavioral Sciences\* - 3 Hours

#### Major Course Requirements (46 Semester Hours)

~~RADR 1166 - Practicum III~~  
~~RADR 1167 - Practicum I~~  
~~RADR 1267 - Practicum II~~  
~~RADR 1309 - Intro to Radiography & Patient Care~~  
~~RADR 1313 - Principles of Radiographic Imaging I~~  
~~RADR 1411 - Basic Radiographic Procedures I~~  
~~RADR 1202 - Radiographic Image Evaluation I~~  
~~RADR 1260 - Radiographic Image Evaluation II~~  
~~RADR 2166 - Practicum VI~~  
RADR 2217 - Radiographic Pathology  
RADR 2235 - Radiologic Technology Seminar  
~~RADR 2240 - Sectional Anatomy for Medical Imaging~~  
~~RADR 2270 - Principles of Radiologic Science~~  
RADR 2305 - Principles of Radiographic Imaging II  
RADR 2309 - Radiographic Imaging Equipment  
RADR 2313 - Radiation Biology and Protection  
RADR 2366 - Practicum IV  
RADR 2367 - Practicum V  
RADR 2401 - Intermediate Radiographic Procedures

#### Related Required Course (3 Semester Hours)

~~HITT 1305 - Medical Terminology I~~

Total (72 Semester Hours)

## Current courses

## Proposed Courses

|  |   |
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| <p><b>RADR 1301-Introduction to Radiography</b><br/>An overview of the historical development of radiography; basic radiation protection; introduction to medical terminology; ethical and legal issues for health care professionals; and an orientation to the program and the health care system.</p> <p>Hours (3 sem hrs; 3 lec)</p> | <p><b>HITT 1305 - Medical Terminology I</b><br/>Prerequisites / Corequisite<br/>Prerequisite: RDNG 0331-minimum grade of C or a score on a state-approved test indicating college-level reading skills</p> <p>Study of word origin and structure through the introduction of prefixes, suffixes, root words, plurals, abbreviations and symbols, surgical procedures, medical specialties and diagnostic procedures. To include definitions, spelling and pronunciation of medical terms.</p> <p>Hours (3 sem hrs; 3 lec)</p>   |
| <p><b>RADR 1303 - Patient Care</b></p> <p>An introduction in patient assessment; infection control procedures; emergency and safety procedures; communication and patient interaction skills; and basic pharmacology.</p> <p>Hours (3 sem hrs; 3 lec)</p>  | <p><b>RADR 1309 Introduction to Radiography and Patient Care</b><br/>Course Description: An overview of the historical development of radiography, basic radiation protection, an introduction to medical terminology, ethical and legal issues for health care professionals, and an orientation to the profession and to the health care system. Patient assessment, infection control procedures, emergency and safety procedures, communication and patient interaction skills, and basic pharmacology are also included.</p> <p><b>End-of-Course Outcomes:</b> Define basic medical terms; identify ethical and legal standards; explain basic radiation protection practices; assess patient condition; describe infection control procedures; recognize and respond to emergency situations; and identify relevant pharmaceuticals and their applications.</p> <p>Hours (3 sem hrs; 3 lec)</p> |
| <p><b>RADR 1317 Radiographic Anatomy and Physiology I</b><br/>Survey of basic human anatomy and physiology. The localization and identification of human anatomy on the radiographic image is emphasized.</p> <p>Hours (3 sem hrs; 3 lec)</p>  | <p><b>BIOL 2401 - Human Anatomy and Physiology I</b><br/>Prerequisites / Corequisite<br/>Prerequisite: RDNG 0331-minimum grade of C or a score on a state-approved test indicating college-level reading skills; SCIT 1307 recommended</p> <p>A detailed study of the human organism according to levels of chemical and structural organization with special reference to cytology, histology, and</p>   |

|   |  |
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|   | <p>organs of the integumentary, skeletal, muscular, and nervous systems and fluid and electrolyte balance.</p> <p>Hours (4 sem hrs; 3 lec, 3 lab)</p>  |
| <p><b>RADR 1317—Radiographic Anatomy and Physiology II</b><br/> <b>Survey of basic human anatomy and physiology. The localization and identification of human anatomy on the radiographic image is emphasized.</b><br/> <b>Hours (3 sem hrs; 3 lec)</b></p>   | <p><b>BIOL 2402 - Human Anatomy and Physiology II</b><br/> <b>Prerequisites / Corequisite</b><br/> <b>Prerequisite: BIOL 2401</b></p> <p>A detailed study of the human organism according to levels of chemical and structural organization with special reference to cytology, histology, and organs of the sense organs, endocrine, cardiovascular, respiratory, urinary, digestive and reproductive systems and genetics.</p> <p>Hours (4 sem hrs; 3 lec, 3 lab)</p>  |
| <p><b>RADR 2340—Sectional Anatomy for Medical Imaging</b><br/> <b>Prerequisite: RADR 1167 or Program Director consent</b><br/> <b>Anatomic relationships that are present under various sectional orientations as depicted by computed tomography or magnetic resonance imaging.</b><br/> <b>Hours (3 sem hrs; 3 lec)</b></p>   | <p><b>RADR 2240 Sectional Anatomy for Medical Imaging</b><br/> <b>Prerequisite: RADR 1167 or Program Director consent</b></p> <p>Anatomic relationships present under various sectional orientations.</p> <p><b>End-of-Course Outcomes:</b> Differentiate the various planar orientations used in medical imaging; and identify anatomic structures viewed on medical images.</p> <p>Hours (2 sem hrs; 2 lec)</p>  |
| <p><b>RADR 2370—Principles of Radiologic Science</b><br/> <b>Prerequisites / Corequisite</b><br/> <b>Prerequisite: RADR 2313</b></p> <p>An in-depth discussion and exploration of the fundamentals principles of physics as they apply to the science of radiology. Includes a study of matter and energy, electricity, magnetism, electromagnetism, motors and generators, current rectification, production and control of high voltage and solid electronic devices used in imaging equipment.</p> <p>Hours (3 sem hrs; 3 lec)</p> | <p><b>RADR 2270 – Principles of Radiologic Science</b><br/> <b>Prerequisites / Corequisite</b><br/> <b>Prerequisite: RADR 2313</b></p> <p>An exploration of the fundamentals principles of physics as they apply to the science of radiology. Includes a study of matter and energy, electricity, magnetism, electromagnetism, motors and generators, current rectification, production and control of high voltage and solid electronic devices used in imaging equipment.</p> <p><b>End of course outcome:</b><br/> This is a special topics class we request approval for each year. We are reducing it from 3 hours to 2</p> |

Submitted  
to CB  
12/14/11

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|  | <p>hours.</p> <p>RADR 2370 will include fundamental physical principles that are needed to prepare the student radiographer to work with the sophisticated electronic equipment used in the production of medical diagnostic radiation. This preparation will enable the student to use the equipment in accordance with its design features and manufacturers recommendations. It will also prepare the student to provide good preventive maintenance before problems occur and troubleshooting skills after a problem becomes evident</p> <p>Hours (2 sem hrs; 2 lec)</p>   |
| <p><b>RADR 2233 – Advanced Medical Imaging</b><br/> <b>Prerequisites / Corequisite</b><br/> <b>Prerequisite: RADR 2305</b></p> <p>Specialized imaging modalities. Includes concepts and theories of equipment operations and their integration for medical diagnosis.</p> <p>Hours (2 sem hrs; 2 lec, 1 lab)</p> | <p><b>RADR 1202 – Radiographic Image Evaluation I</b><br/> Scientific process of radiographic image evaluation.<br/> <b>End-of-Course Outcomes:</b> Analyze the positioning and technical qualities of a radiographic image.</p> <p>Hours (2 sem hrs; 2 lec)</p> <p><b>RADR 1250 – Radiographic Image Evaluation II</b><br/> Assessment of radiographic images.<br/> <b>End-of-Course Outcomes:</b> Analyze the positioning and technical qualities of a radiographic image; identify artifacts and pathology</p> <p>Hours (2 sem hrs; 2 lec)</p>  |
| <p><b>RADR 2266 – Practicum VI</b><br/> <b>Prerequisites / Corequisite</b><br/> <b>Prerequisite: RADR 2367</b></p> <p>Practical, general workplace training supported by an individualized learning plan developed by the employer, college and student.</p> <p>Hours (2 sem hrs; 15 practicum)</p>              | <p><b>RADR 2166 Practicum VI</b><br/> Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.</p> <p><b>End-of-Course Outcomes:</b> As outlined in the learning plan, apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry.</p> |



|  |   |
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|  | Hours (1 sem hrs; 10 practicum)   |
| <b>RADR 1313</b><br><b>Prerequisites / Corequisite</b><br><b>Prerequisite: RADR 2313</b><br><br>Radiographic image qualities and the effects of exposure variables.<br><br>Hours (3 sem hrs; 2 lec, 3 lab)   | <b>RADR 1313</b><br><b>Prerequisites / Corequisite</b><br><b>Prerequisite: RADR 2313</b><br><br>Radiographic image qualities and the effects of exposure variables.<br><br>Hours (3 sem hrs; 3 lec)   |
| <b>RADR 2305 - Principles of Radiographic Imaging II</b><br><b>Prerequisites / Corequisite</b><br><b>Prerequisite: RADR 1313</b><br><br>Radiographic imaging technique formulation. Includes equipment quality control, image quality assurance and the synthesis of all variables in image production.<br><br>Hours (3 sem hrs; 2 lec, 3 lab) | <b>RADR 2305 - Principles of Radiographic Imaging II</b><br><b>Prerequisites / Corequisite</b><br><b>Prerequisite: RADR 1313</b><br><br>Radiographic imaging technique formulation. Includes equipment quality control, image quality assurance and the synthesis of all variables in image production.<br><br>Hours (3 sem hrs; 3 lec) |

## **CURRICULUM REVISION REQUEST FORM**

**1. Division:** Health Sciences

**2. Department/Program:** Nuclear Medicine Technology

**3. Prepared by:** Mark E. Rowh

**4. Request:**

- a. Add CHEM 1105-Introductory Chemistry Lab I-to curriculum.
- b. Replace RADR-2340-Sectional Anatomy for Medical Imaging- with RADR-2240-Sectional Anatomy for Medical Imaging.

**5. Rationale/Justification:**

- a. In order to align program requirements with Standard C2.1: Curriculum of the Accreditation Standards for Nuclear Medicine Technologist Education from the Joint Review Committee on Educational Programs in Nuclear Medicine Technology, a chemistry lab is now required to be in compliance.
- b. The NMT Program is at 72-credit hours max to earn the AAS degree, so need to decrease credit hours by one in RADR 2340 to RADR-2240 while adding CHEM-1105 as described.

**6. Effects of Revisions:**

- A. Faculty and Staff Requirements:** Not affected.
- B. Equipment/Facility Requirements:** Not affected.
- C. Location:** Not affected.
- D. Income projection:** Not affected.

**7. Effective Date:** Fall 2012

## Current

### Nuclear Medicine (AAS)

Major Code-NMTT.AAS.NM Nuclear Medicine (AAS)

#### General Education Requirements (26 Semester Hours)

##### Communication-6 hours

ENGL 1301-Freshman Composition I

SPCH 1318-Interpersonal Communication

##### Humanities/Fine Arts\*-3 hours

##### Mathematics/Natural Sciences-14 hours

BIOL 2401-Human Anatomy and Physiology I

BIOL 2402-Human Anatomy and Physiology II

CHEM 1305-Introductory Chemistry I

MATH 1314-College Algebra

##### Social/Behavioral Sciences\*-3 hours

#### Major Course Requirements (40 Semester Hours)

NMTT 1266-Practicum I

NMTT 1267-Practicum II

NMTT 1301-Introduction to Nuclear Medicine

NMTT 1309-Nuclear Medicine Instrumentation

NMTT 1313-Nuclear Medicine Physics

NMTT 2235-Nuclear Medicine Technology Seminar

NMTT 2266-Practicum III

NMTT 2267-Practicum IV

NMTT 2301-Radiochemistry and Radiopharmacy

~~RADR 2340-Sectional Anatomy for Medical Imaging~~

NMTT 2333-Advanced Positron Emission Tomography  
(PET) and Fusion Technology

NMTT 2309-Nuclear Medicine Methodology II

NMTT 2313-Nuclear Medicine Methodology III

NMTT 2366-Practicum IV

NMTT 2367-Practicum V

#### Related Required Courses (6 Semester Hours)

Physics\*

HITT 1305-Medical Terminology I

**Total (72 Semester Hours)**

## Proposed

### Nuclear Medicine (AAS)

Major Code-NMTT.AAS.NM Nuclear Medicine (AAS)

#### General Education Requirements (27 Semester Hours)

##### Communication-6 hours

ENGL 1301-Freshman Composition I

SPCH 1318-Interpersonal Communication

##### Humanities/Fine Arts\*-3 hours

##### Mathematics/Natural Sciences-15 hours

BIOL 2401-Human Anatomy and Physiology I

BIOL 2402-Human Anatomy and Physiology II

CHEM 1305-Introductory Chemistry I

~~CHEM 1105-Introductory Chemistry I Laboratory~~

MATH 1314-College Algebra

##### Social/Behavioral Sciences\*-3 hours

#### Major Course Requirements (39 Semester Hours)

NMTT 1266-Practicum I

NMTT 1267-Practicum II

NMTT 1301-Introduction to Nuclear Medicine

NMTT 1309-Nuclear Medicine Instrumentation

NMTT 1313-Nuclear Medicine Physics

NMTT 2235-Nuclear Medicine Technology Seminar

NMTT 2266-Practicum III

NMTT 2267-Practicum IV

NMTT 2301-Radiochemistry and Radiopharmacy

~~RADR 2240-Sectional Anatomy for Medical Imaging~~

NMTT 2333-Advanced Positron Emission Tomography  
(PET) and Fusion Technology

NMTT 2309-Nuclear Medicine Methodology II

NMTT 2313-Nuclear Medicine Methodology III

NMTT 2366-Practicum IV

NMTT 2367-Practicum V

#### Related Required Courses (6 Semester Hours)

Physics\*

HITT 1305-Medical Terminology I

**Total (72 Semester Hours)**