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| **School or Division** | School of Health Professions |
| **Program or Certificate or** | Choose an item. |
| **New degree or certificate program** | ATC in Computed Tomography |
| **Proposed by (faculty only)** | James Mayhew, Coleen Kubetschek, Nancy Costello |
| **Presenter (faculty only)** | James Mayhew |
| Note that the presenter (faculty) listed above must be present at the Curriculum Committee meeting or the proposal will be returned to the School or Division and must be submitted for a later date. | |
| **Submission date** | 11/5/2014 |
| **Course prefix, number, and title** | RTE 2571 Physics and Instrumentation in CT |

**Section I, New Course Information (must complete all items)**

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| **List School or Division** | School of Health Professions |
| **List course prerequisite(s) and minimum grade(s) (must include minimum grade if higher than a “D”)** | No prerequisites |
| **Will students be taking any of the prerequisites listed for this course in different parts of the same term (ex. Term A and Term B)** | No |
| **List course corequisites** | No corequisites |
| **Is any corequisite for this course listed as a corequisite on its paired course?**  (Ex. CHM 2032 is a corequisite for CHM 2032L, and CHM 2032L is a corequisite for CHM 2032) | No |
| **Course credits or clock hours** | 3 Credit Hours |
| **Contact hours (faculty load)** | 3 Contact Hours |
| **Select grade mode** | Standard Grading (A, B, C, D, F) |
| **Credit type** | College Credit |
| **Course description** (provide below) | |
| This course presents a study of the physical principles and instrumentation of computed tomography. The content of this course includes the historical development of computerized tomography along with patient preparation and care, physical principles related to data acquisition and image formation will be presented along with postprocessing, display, and archival techniques. Artifacts and other factors affecting image quality will be discussed. Content will include clinical applications, procedures, and protocols for CT imaging. | |

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| **General topic outline** (type in outline below) |
| * Historical development of computed tomography * Patient care and patient preparation for CT procedures * Data acquisition and image formation * Postprocessing, image display, and archival techniques * CT procedures and protocols |

**Learning Outcomes:** For information purposes only. Type in all learning outcomes, assessments, and general education competencies as they should be displayed in the syllabus. More rows can be added if necessary.

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| **Learning Outcomes** | **Assessments** | **General Education Competencies** |
| Students will determine the proper protocols and procedures for CT imaging of various body parts | Students will be assessed through quizzes, written tests, and homework assignments. | N/A |
| Students will perform mathematical functions to determine the radiation exposure dose of various CT procedures | Students will be assessed through quizzes, written tests, and homework assignments. | N/A |
| Students will identify and describe the instrumentation and process of producing a CT image. | Students will be assessed through quizzes, written tests, and homework assignments. | N/A |
| Students will identify various CT artifacts and determine the proper means of correcting them. | Students will be assessed through quizzes, written tests, and homework assignments. | N/A |

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| **ICS code for this course** | ADVANCED AND PROFESSIONAL - 1.11.12 - HEALTH PROFESSIONS |
| **Should any major restriction(s) be listed on this course? If so, select "yes" and list the appropriate major restriction code(s) or select "no".** | Choose an item.  List applicable major restriction codes |
| **Is the course an “International or Diversity Focus” course?** | No, not International or Diversity Focus |
| **Is the course a General Education course?** | No |
| **Is the course a Writing Intensive course?** | No |
| **Is the course repeatable\*?**  (A repeatable course may be taken more than one time for additional credits. For example, MUT 2641, a 3 credit hour course can be repeated 1 time and a student can earn a maximum of 6 credits).  \*Not the same as Multiple Attempts or Grade Forgiveness | No |
| **Do you expect to offer this course three times or less (experimental)?** | No |

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| **Impact of Course Proposal** | |
| **Will this new course proposal impact other courses, programs, departments, or budgets?** | No |
| **If the answer to the question above is “yes”, list the impact on other courses, programs, or budgets?** | N/A |
| **Have you discussed this proposal with anyone (from other departments, programs, or institutions) regarding the impact? Were any agreements made? Provide detail information below.** | |
| The proposal has been discussed with a majority of the hospitals and imaging centers in Collier, Lee, and Charlotte counties. These institutions will be acting as the clinical education sites for the program as well as the major employers of CT technologists in the area. | |

**Section II, Justification for proposal**

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| **Provide justification (below) for this proposed curriculum action** |
| This course will be one component of the proposed ATC in Computed Tomography. Successful completion of this course, along with RTE 2571L and RTE 2762 will fulfill the educational requirement to sit for the ARRT post-primary certification exam in Computed Tomography. |

**Section III, Important Dates and Endorsements Required**

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| **List all faculty endorsements below. (Note that proposals will be returned to the School or Division if faculty endorsements are not provided).** |
| James Mayhew, Coleen Kubetschek, Nancy Costello |

**nOTE:** Changes for the Fall 2015 term must be submitted by the January 3, 2015 deadline and approved no later than the February 28, 2015 Curriculum Committee meeting. Changes during mid-school year are NOT permitted. Extreme circumstances will require approval from the appropriate Dean or Assistant Vice President as well as the Provost and Vice President of Academic Affairs to begin in either the Spring 2015 or Summer 2015 term.

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| **Term in which approved action will take place** | Fall 2015 |

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| **Required Endorsements** | **Type in Name** | **Select Date** |
| **Department Chair or Program Coordinator** | James Mayhew | 11/5/2014 |
| **Academic Dean or Assistant Vice President** | Dr. Marie Collins | 11/5/2014 |
| **Dean’s Council Representative** | Dr. Mary Myers | 1/6/2015 |

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| **Select Curriculum Committee Meeting Date** | January 23, 2015 |

Completed curriculum proposals must be uploaded to Dropbox by the deadline. Please refer to the *Curriculum Committee Critical Dates for Submission of Proposals* document available in the document manager in the FSW Portal:

* Document Manager
* VP Academic Affairs
* Curriculum Process Documents

**Important Note to Faculty, Department Chairs or Program Coordinators, and Deans or an Assistant Vice President:**

Incomplete proposals or proposals requiring corrections will be returned to the School or Division. If a proposal is incomplete or requires multiple corrections, the proposal will need to be completed or corrected and **resubmitted to the Dropbox for the next Curriculum Committee meeting** (no later than January 3, 2015 to be effective for the Fall 2015 term). All Curriculum proposals require approval of the Provost and Vice President of Academic Affairs. Final approval or denial of a proposal is reflected on the completed and signed Summary Report.