

KENT STATE UNIVERSITY CERTIFICATION OF CURRICULUM PROPOSAL

Preparation Date _____ Curriculum Bulletin _____
Effective Date **Fall 2019** Approved by EPC _____

Department _____
College **RE - Regional College**
Degree **BRIT - Bachelor of Radiologic Imaging Sciences**
Program Name _____ Program Banner Code _____
Concentration(s) _____ Concentration(s) Banner Code(s) _____
Proposal **Offer program at another campus or off site**

Description of proposal:

This proposal seeks approval for the online delivery of the CT and MRI concentrations to be offered on the Ashtabula and Salem Campuses. The rotation of the CT and MRI concentrations will alternate between campuses and will be dependent upon enrollment demands. The core courses, common to both concentrations will be shared by both campuses. The Salem Campus will continue to offer the 4 concentrations on-ground.

Does proposed revision change program's total credit hours? Yes No
Current total credit hours: **120** Proposed total credit hours **120**

Describe impact on other programs, policies or procedures (e.g., duplication issues; enrollment and staffing considerations; need; audience; prerequisites; teacher education licensure):
No added facilities are needed as the courses are online. Staffing considerations include filling open positions for MRI with one full-time faculty and additional adjunct faculty.

Units consulted (other departments, programs or campuses affected by this proposal):
**Ashtabula and Faculty Council
Salem Campus Faculty Council
Regional College Curriculum Committee
EPC**

REQUIRED ENDORSEMENTS

| | | |
|--|--|-----------------|
| <u>Jan Gibson</u> <small>Salem</small> | <u>Neil Schroeder</u> <small>Ashtabula</small> | <u>12/12/18</u> |
| Department Chair / School Director | | |
| <u>Wanda Stecker</u> <small>Ashtabula</small> | <u>David M. Rees</u> <small>Salem</small> | <u>12/11/18</u> |
| Campus Dean (for Regional Campuses proposals) | | |
| _____ | | _ / _ / _ |
| College Dean (or designee) | | |
| <u>NA</u> | | _ / _ / _ |
| Dean of Graduate Studies (for graduate proposals) | | |
| _____ | | _ / _ / _ |
| Senior Vice President for Academic Affairs and Provost (or designee) | | |



Department of
Higher Education

John R. Kasich, Governor
John Carey, Chancellor

Change Requests: New Program Offering at an Existing Campus Online Delivery

Date of submission: December 20, 2018

Name of institution: Kent State University

Name of program: Bachelor of Radiologic Imaging Sciences Technology (BRIT) degree, Radiologic Imaging Sciences major, Computed Tomography (CT) and Magnetic Resonance Imaging (MRI) concentrations

Name of campus at which program is offered:
Salem Campus (on-ground)

Name of additional campus at which program will be offered:
Ashtabula Campus (online only) and Salem Campus (on-ground)

Proposed start date: Fall 2019

Primary institutional contact for the request:

Name: Therese E. Tillett
Title: Associate Vice President for Curriculum Planning and Administration
Office of the Provost
Phone: 330-672-8558
E-mail: ttillet1@kent.edu

Date that the request received final approval from the appropriate institutional committee:
Final approval by the Educational Policies Council, a committee of the Faculty Senate, on *date to come*.

Institution has Higher Learning Commission approval for online delivery:
Yes (see Appendix A)

Program is educator preparation and leads to teacher licensure or endorsement:
Not applicable.

Brief description of the program.

The bachelor's degree in radiologic imaging sciences at Kent State is an accredited program designed for students pursuing medical imaging positions in hospitals, surgical centers, clinics, physician offices and other healthcare facilities.

The major comprises four concentration areas:

1. **Computed Tomography:** separate curriculum for (1) graduates of an associate degree in radiologic technology and (2) graduates of a hospital-based program certificate program and Associate of Technical Study degree.
2. **Diagnostic Medical Sonography:** separate curriculum for (1) graduates of an associate degree in radiologic technology and (2) graduates of a hospital-based certificate program and Associate of Technical Study degree and (3) freshman entry or Associate of Science degree graduates.
3. **Magnetic Resonance Imaging:** separate curriculum for (1) graduates of an associate degree in radiologic technology and (2) graduates of a hospital-based certificate program and Associate of Technical Study degree.
4. **Radiation Therapy:** separate curriculum for (1) graduates of an associate degree in radiologic technology and (2) graduates of a hospital-based certificate program and Associate of Technical Study degree and (3) freshman entry or Associate of Science degree graduates.

Briefly describe the rationale for offering the program at this campus. In your response, indicate whether the program to be offered at the campus will be time limited or ongoing.

The BRIT degree program is offered on-ground at the Salem Campus. With this request, Kent State will offer online-only Computed Tomography (CT) and Magnetic Resonance Imaging (MRI) concentrations for graduates of an associate degree in radiologic technology.

The Ashtabula Campus will be the administrator of the online-only program, and will serve as the admitting campus for first-time Kent State applicants who are declaring the online program. Salem Campus will continue to offer the major and all its concentrations on-ground, as well as offer online courses to support the online program.

Offering the CT and MRI concentrations online aligns with the goals and offerings at the Ashtabula Campus. The mission of the campus is to provide for the diverse educational and cultural needs of the community. The campus is committed to expanding its health sciences and human services programs. In those fields, the campus offers associate degrees in nursing, human services, radiologic technology, respiratory therapy technology, physical therapist assistant technology and occupational therapy assistant technology; as well as a complete bachelor's degrees in respiratory care.

Presently, there are 23 colleges and universities in Ohio, including Kent State (at Ashtabula and Salem campuses), that offer an associate degree accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). By offering the CT and MRI concentrations fully online, graduates of these associate degree programs in Ohio and other states, as well as working registered radiologic technologists, will be able to complete their bachelor's degree in a more flexible manner, without having to relocate or compromise their employment.

SECTION 1: CHANGES NEEDED TO ACCOMMODATE THE NEW PROGRAM

Academic and Administrative Leadership and Services

1.1 Describe the changes (if any) that will be needed in academic and administrative leadership at the campus to accommodate the new program.

There are no anticipated changes needed. As the Ashtabula Campus is an established regional campus of Kent State University, there is a dean/chief administrator officer who reports to the university provost, and a full range of support personnel who are supervised by an assistant dean and a director of student affairs and enrollment management. These positions supervise staff in offices that include, but are not exclusive to, the library, computer technology, learning center, accessibility services, admissions, registrar, financial aid, advisement, bursar and tutoring.

The program director for the associate degree program in radiologic technology at the Ashtabula Campus will oversee the online BRIT degree at the campus. All curricular and academic aspects of the BRIT degree will be coordinated between the Salem and Ashtabula campuses.

1.2 Describe the changes (if any) that will be needed in the campus' existing administrative services (e.g., admissions, financial aid, registrar) to accommodate the new program. If such services are not available at the campus, describe how students in the new program will access such services.

There are no additional resources required to implement this degree program. The Ashtabula Campus has a full range of administrative and support services available, including admissions, financial aid, advising, registrar, tutoring, learning center, accessibility services and library.

1.3 Describe changes (if any) that will be needed in the campus' existing academic student services (e.g., advising, tutoring, counseling, placement services) to accommodate the new program. If such services are not available at the campus, describe how students in the new program will access such services.

There are no changes needed to accommodate this program.

Resources and Facilities

1.4. Describe the changes in resources and facilities (e.g., classrooms, computer labs, labs, study areas, social areas, technology and other learning environments) that will be needed to accommodate the new program; provide a timeline for implementing the changes.

As the two concentrations for the BRIT degree will be offered fully online, no classroom or laboratory facilities will be required.

1.5 Describe any additional library resources (e.g., personnel, space, technology) that will be needed to accommodate the new program at the campus; provide a timeline for implementing the changes.

There are no additional library resources required to implement this degree program. All Kent State campuses house a full academic library with access to computers, information literacy

instruction, interlibrary loan, OhioLINK and KentLink (the latter provides students access to all Kent State libraries on the eight campuses).

1.6. If a full-service library is not available on campus, indicate how students, faculty and staff in the new program will access the resources and services of the main campus library.

Not applicable.

SECTION 2: PROGRAM INFORMATION

2.1 Using the chart below, list the program that is being added for delivery at the campus. If general education courses are being added as part of this request, include that as a separate program area.

| Degree, Major, Concentration | Available | | Comments for Chancellor's Staff |
|--|-----------|---------|---|
| | Full | Partial | |
| BRIT degree, Radiologic Imaging Sciences major, Computed Tomography and Magnetic Resonance Imaging concentrations (completer programs) | ✓ | | Two of the major's four concentration areas will be offered online-only through Ashtabula Campus. Full program will continue to be offered on-ground at the Salem Campus. |

2.2 Indicate whether alternative delivery options are available for the program at the proposed campus and indicate whether this is different from the delivery option used for the approved program at other locations.

| Delivery | Available | Offering Campus |
|--|-----------|------------------|
| Online BRIT degree program, CT and MRI concentrations (completer programs) | ✓ | Ashtabula Campus |
| On-ground BRIT degree program | ✓ | Salem Campus |

SECTION 3: CURRICULUM

3.1 Will the online or blended/hybrid program be offered instead of or in addition to the on-ground program?

The online program will be offered in addition to the on-ground program. Graduates of an associate degree in radiologic technology can pursue either the CT or MRI concentration on-ground at the Salem Campus or online through the Ashtabula Campus.

3.2 Indicate whether the online or blended/hybrid program is equivalent to the on-ground program (e.g., expected outcomes, number of credits, course availability, etc.). If there are differences, please explain.

Admission, course and graduation requirements are unchanged with the online offering. Only the course delivery method and administrative campus are different.

3.3 Describe how interaction (synchronous or asynchronous) between the instructor and the students and among the students is reflected in the design of the program and its courses.

Program instructors will use Blackboard and Blackboard Collaborate virtual learning systems to provide course content to students and prompt interactions. Tools used for asynchronous interactions include assignments, discussion boards, e-mail correspondence, exams, recorded lectures and videos. Synchronous interactions will be facilitated through live webcasts, live video conferencing and real-time collaboration.

3.4 Explain how students are supported and counseled to ensure that they have the skills and competencies to successfully complete the curriculum in an online learning environment.

Students are referred to the campus' Student Academic Services Office for assistance with the courses, and they can obtain assistance from the campuses educational technology designers and HelpDesk for assistance with using the technology. Program faculty are available via phone, email, Skype and WebEx to students for additional assistance with program materials and competencies. The program director also is available to assist and advise students via phone and e-mail.

In addition, Kent State's Online Technology Help Center provides students with 24/7 technology support, software downloads, and hundreds of tutorials and online resources. The University Library offers instructions and tutorial resources to assist students with off-campus access through Virtual Private Network (VPN) service or OhioLINK Authentication Service.

The Academic Services Office provides appropriate accommodations and ADA-compliant materials in online courses to students with recognized and confirmed disabilities. For example, the office has employed scribes to assist during live online meetings, and recorded lectures have been closed-captioned for hearing-impaired students.

Describe the evaluation systems used to measure the quality and effectiveness of the program delivered in an online or blended/hybrid format.

Courses within the BRIT degree have a set of learning objectives, student outcomes and competencies that are the same for all students, who are evaluated by their instructors through course assignments and assessments. Students who successfully demonstrate competency within these objectives are permitted to take advanced courses within the program.

Students complete online surveys to evaluate their course instructors, as well as their courses at the end of each semester. Near program end, students complete an exit survey. Program faculty review graduate pass rates on the national certification examination and their employment placement.

3.5 Using the chart below, please list the courses that make up the major/program and indicate whether they are delivered using an online, blended/hybrid or on-ground format (see definitions on first page). Identify all new courses (i.e., courses that are not a part of the approved, on-ground curriculum.)

Below is the curriculum for the CT and MRI concentrations for graduates of an associate degree in radiologic technology. All courses listed below are required currently in the approved program with minor revisions approved for fall 2019.

| | | Online | On-ground | Hybrid | Comment |
|--|-----|--------|-----------|--------|-------------------|
| Major Requirements (14 credit hours) | | | | | |
| RIS 34084 Computed Tomography and Magnetic Resonance Imaging Sectional Anatomy I | 2 | ✓ | ✓ | | |
| RIS 34086 Computed Tomography and Magnetic Resonance Imaging Sectional Anatomy II | 2 | ✓ | ✓ | | |
| RIS 44083 Pathophysiology for Medical Imaging | 3 | ✓ | ✓ | | |
| RIS 44088 Leadership in Medical Imaging | 1 | ✓ | ✓ | | |
| RIS 44096 Individual Investigation: Medical Imaging | 3 | ✓ | ✓ | | |
| RIS 44098 Research in Medical Imaging | 3 | ✓ | ✓ | | |
| Computed Tomography Concentration Requirements (17 credit hours) | | | | | |
| RIS 44004 Computed Tomography Clinical Education I | 2 | ✓ | ✓ | | off-site clinical |
| RIS 44021 Patient Management in Computed Tomography | 2 | ✓ | | | |
| RIS 44030 Computed Tomography Image Production I | 2 | ✓ | ✓ | | |
| RIS 44047 Computed Tomography Procedures I | 2 | ✓ | ✓ | | note 2 |
| RIS 44048 Computed Tomography Procedures II | 2 | ✓ | ✓ | | |
| RIS 44054 Computed Tomography Clinical Education II | 2 | ✓ | ✓ | | off-site clinical |
| RIS 44062 Computed Tomography Image Production II | 2 | ✓ | ✓ | | |
| RIS 44068 Computed Tomography Techniques | 2 | ✓ | ✓ | | |
| RIS 44069 Computed Tomography Clinical Education III | 1 | ✓ | ✓ | | off-site clinical |
| Magnetic Resonance Imaging Concentration Requirements (17 credit hours) | | | | | |
| RIS 44003 Magnetic Resonance Imaging Clinical Education I | 2 | ✓ | ✓ | | off-site clinical |
| RIS 44031 Patient Management in Magnetic Resonance Imaging | 2 | ✓ | | | |
| RIS 44044 Magnetic Resonance Imaging Procedures I | 2 | ✓ | ✓ | | |
| RIS 44045 Magnetic Resonance Imaging Procedures II | 2 | ✓ | ✓ | | |
| RIS 44051 Magnetic Resonance Equipment and Image Acquisition I | 2 | ✓ | ✓ | | |
| RIS 44052 Magnetic Resonance Equipment and Image Acquisition II | 2 | ✓ | ✓ | | |
| RIS 44063 Magnetic Resonance Imaging Clinical Education II | 2 | ✓ | ✓ | | |
| RIS 44066 Magnetic Resonance Imaging Techniques | 2 | ✓ | ✓ | | |
| RIS 44073 Magnetic Resonance Imaging Clinical Education III | 1 | ✓ | ✓ | | off-site clinical |
| Additional Requirements (89 credit hours – most earned through AAS degree in Radiologic Technology) | | | | | |
| BSCI 11010 Foundational Anatomy and Physiology I or BSCI 21010 Anatomy and Physiology I | 3-4 | | ✓ | ✓ | note 1 |
| BSCI 11020 Foundational Anatomy and Physiology II or BSCI 21020 Anatomy and Physiology II | 3-4 | | ✓ | ✓ | note 1 |
| CHEM 10050 Fundamentals of Chemistry or CHEM 10055 Molecules of Life | 3 | ✓ | ✓ | ✓ | |
| HED 14020 Medical Terminology | 3 | ✓ | ✓ | | |
| MATH 11009 Modeling Algebra or MATH 11010 Algebra for Calculus | 3-4 | ✓ | ✓ | | |
| PSYC 11762 General Psychology | 3 | ✓ | ✓ | ✓ | |
| UC 10097 Destination Kent State: First Year Experience | 1 | ✓ | ✓ | ✓ | |
| Kent Core Composition | 6 | ✓ | ✓ | ✓ | |
| Kent Core Humanities and Fine Arts | 9 | ✓ | ✓ | ✓ | |
| Kent Core Social Sciences | 3 | ✓ | ✓ | ✓ | |
| Kent Core Additional | 6 | ✓ | ✓ | ✓ | |
| General Electives | 46 | ✓ | ✓ | ✓ | |
| Minimum Total Credit Hours: 120 | | | | | |

Note 1. Students complete the anatomy and physiology courses as part of their associate degree.

Note 2. Course credit hours increase, from 1 to 2, effective fall 2019.

SECTION 4: FACULTY AND ADMINISTRATION

4.1 Describe the duties of the individual who has major responsibility for the administration and coordination of the online or blended/hybrid program. Describe the qualifications of this individual for the oversight of a distance education program and provide this individual's CV as an appendix item.

Gail Schroeder, R.T.(R), is the program director of radiologic technology at the Ashtabula Campus and will be responsible for the administration and coordination of the online program in consultation with the senior program director for radiology programs at the Salem Campus. Ms. Schroeder was certified in Quality Matters in 2013 and has taught and developed online courses. See Appendix B for Ms. Schroeder's CV.

4.2 Describe faculty members' responsibilities to the online or blended/hybrid program. In your response, indicate how faculty members' responsibilities to the online or blended/hybrid program affect their responsibilities to the on-ground program, including teaching load, advising, research/scholarship, and participation in faculty committees/governance. Are additional faculty members going to be hired to implement the online or blended/hybrid program? Will these faculty members participate in only the online or blended/hybrid program or will they participate in the on-ground program as well.

Program faculty for the online program at the Ashtabula Campus will be responsible for the content of courses and methods of instruction and will adhere to Quality Matters criteria. Course load will be assigned based on credit hours. Additional faculty will be hired to fill any open positions for the online concentrations.

4.3 Describe the mechanisms used to ensure that faculty members have the appropriate qualifications and support to teach successfully in an online environment. Include in your response the pedagogical and technical support provided for the design, production and management of online courses, as well as institutional support for all essential technology.

All faculty members have completed or will be completing Quality Matters certification prior to fall 2019 implementation of the proposed online program. In addition, faculty will be encouraged to complete the [Online Teaching Orientation and Refresher](#) course and to review the online classroom examples and ideas as listed on Blackboard Learn. BRIT program directors at both the Ashtabula and Salem campuses will oversee the design, production and management of the online courses.

Full-time instructional designers at the Ashtabula and Salem campuses will provide technical support for the design, production and management of the program's courses. Staff from Kent State's Office of Continuing and Distance Education will help guide and support the program developers throughout the design process. Additionally, faculty will be offered on-going professional development in the area of best practices for presentation of online curriculum.

4.4 Using the form below, provide the information requested for each member of the instructional staff. A faculty member must be identified for each course to be taught during the first two years of program delivery. If a faculty member has not yet been identified for a course, indicate that as an “open position” and describe the necessary qualifications in the matrix (as shown in the example below). A copy of each faculty member’s CV must be included as an appendix item.

Please note that the courses listed below in the matrix are the major courses in the degree program. All other courses to satisfy graduate requirements comprise general education requirements (e.g., biology, chemistry, psychology, mathematics, Kent Core), first-year orientation (UC 10097 Destination Kent State: First Year Experience) and general electives, which are offered—on-ground and online—on all Kent State University campuses.

Faculty CV are in Appendix C. **Missing: RIS 44004, RIS 44021, RIS 44054, RIS 44069, RIS 44031**

* Experience teaching distance education courses and/or professional development in distance learning.

** Number of courses instructor will teach each year at all campuses.

| Instructor, Title | Degree title, institution, year | Course(s) instructor teach | DL experience* | Courses taught ** |
|--|--|--|--|-------------------|
| Stacy Beck, R.T.(R) Associate Lecturer | M.P.H., Public Health, Kent State University, 2004 | TBD | Quality Matters certified | X |
| Kelly Dragomir, R.T.(R)(CT) Associate Lecturer | M.A., Biology, Kent State University, 2018 | <i>CT coursework</i> RIS 44030, RIS 44047 RIS 44048, RIS 44062 RIS 44068 | Developed hybrid and online courses; advanced badge in orientation to online teaching; Quality Matters certification (Jan. 2019) | 5 |
| Christine Gialousis, R.T (R)(CT)(M)(MR) Adjunct (part time) | B.S.A.S., MAJOR , Youngstown State University, DEGREE | <i>Major coursework</i> RIS 44088 | Developed fully online course; Quality Matters certified | 1 |
| Victoria Migge, R.T.(R)(T) Senior Lecturer | M.S., Health Service Administration, University of St. Francis, 2004 | <i>Major coursework</i> RIS 44096 | Developed fully online course; Quality Matters certification (Jan. 2019) | 1 |
| Cynthia Peterson, R.T. RDMS, RVT Senior Lecturer | M.P.H., Public Health, Kent State University, 2008 | <i>Major coursework</i> RIS 44083, RIS 44098 | Developed hybrid and online courses; Quality Matters certification (Jan. 2019) | 2 |
| Open Position, Full Time | Master’s degree in related field required | <i>MRI coursework</i> RIS 44044, RIS 44045 RIS 44051, RIS 44052 RIS 44066 | | |
| Open Position Adjunct (part time) | Master’s degree in related field required | <i>Major coursework</i> RIS 34084, RIS 34086 | | |
| Open Position, Adjunct (part time) | Master’s degree in related field required | <i>MRI coursework</i> RIS 44003, RIS 44063 RIS 44073 | | |

4.5 Describe future faculty staffing plans for the program. In your response, include a description of the institution's plans, if any, for adding courses and faculty after the initial two years of operation, and a description of the plans to add faculty in response to increases in student enrollment.

Historically, the on-ground CT and MRI completer concentrations have had small enrollment. In fall 2018, there eight students enrolled in the CT concentration, 11 in the MRI concentration.

It is anticipated that enrollment will be larger with the online offerings. When enrollment increases substantially, the Ashtabula Campus will assess additional staffing and faculty needs.

SECTION 5: MARKET/WORKFORCE NEED

5.1 Indicate whether the institution performed a needs assessment/market analysis to determine the need for the program at the proposed campus. If so, briefly describe the results of those findings.

There are few accredited bachelor's degree programs in this discipline. In addition to the on-ground program offering at Kent State's Salem Campus, other similar programs are offered on-ground at Ohio State University (BS degree in Radiologic Sciences and Therapy) and online at the University of Cincinnati (Bachelor of Radiation Science Technology degree).

The Ashtabula Campus conducted a survey of students, graduates and employers on the feasibility of offering the BRIT degree. The data indicated that approximately 63.3 percent of all groups combined preferred the CT concentration, 44.2 percent of all groups combined preferred the MRI concentration, and 43.3 percent of all groups combined preferred the Diagnostic Medical Sonography (DMS) concentration.

From the student respondents, 97 percent had a personal interest for this type of bachelor's degree on the Ashtabula Campus. Nearly 79.5 percent of the students were within the 20 to 40 year old age group. Of the counties represented, the majority of students were from Ashtabula, Cuyahoga and Lake. Other students were from Trumbull, Geauga and Lorrain counties.

With the changes in insurance reimbursement rates, employers have expressed a need for graduates credentialed in CT, MRI and DMS.

See Appendix D for a feasibility study for an online BRIT degree program conducted by the Ashtabula Campus.

5.2 Indicate the projected enrollments for the program over the next three years.

| | | |
|-----------|-----------|-----------|
| 2019-2020 | 2020-2021 | 2021-2022 |
| 40 | 58 | 80 |

5.3 Indicate whether the institution consulted with advisory groups, business and industry, or other experts when considering expanding the program to the proposed campus. If so, briefly describe the involvement of these groups in the development of this request.

The Radiologic Technology Advisory Committee at the Salem Campus met on November 8, 2018, and agreed with the offering of the online CT and MRI programs. The committee members also were in favor of continuing the on-ground programs at the Salem Campus.

The Radiologic Technology Advisory Committee at the Ashtabula Campus met on November 28, 2018, and agreed with the offering of the online CT and MRI programs.

APPENDICES

| Appendix | Description |
|----------|-------------|
|----------|-------------|

- | | |
|---|---|
| A | Higher Learning Commission approval letter for distance education at Kent State |
| B | Program Director Gail Schroeder curriculum vitae |
| C | Program faculty curriculum vitae |
| D | Feasibility study for an online BRIT degree program |

Commitment to Program Delivery at Campus

Kent State University is dedicated to the online-only delivery of the BRIT degree in Radiologic Imaging Sciences (Computed Tomography and Magnetic Resonance Imaging concentrations) administered by the Ashtabula Campus, as well as the on-ground-only delivery of the degree program (all concentrations) offered at the Salem Campus. If the university decides in the future either to eliminate the degree program or close the campus, Kent State will provide the necessary resources and means for matriculated students to complete the program.

Kent State University verifies that the information in the application is truthful and accurate.

Todd A. Diacon, PhD
Executive Vice-President for Academic Affairs and Provost
Kent State University