

Ferris State University
Preliminary Curriculum Approval Form

Directions: This form should be completed using 11-point font or larger, and should be no longer than six pages (excluding the signature/comment pages). For purposes of expediting the preliminary approval process, forms may be forwarded electronically by the initiator and from one administrative level to another.

Name(s) of proposal initiator(s):	Sheila MacEachron, MS, CNMT Nuclear Medicine Technology Program
Department(s)/College(s):	Department of Dental Hygiene & Medical Imaging/ College of Allied Health Sciences

Type of curriculum change (check one)

<input type="checkbox"/>	New degree/major
<input type="checkbox"/>	New minor requiring new courses/resources
<input type="checkbox"/>	New concentration in existing degree program
<input type="checkbox"/>	Curricular customization of existing program for off-campus cohort group
<input type="checkbox"/>	New certificate requiring 3 or more new courses and/or new resources
X	Existing program redirection or shift in emphasis if 3 or more new courses and/or new resources are required

1. Name of degree, major, concentration, certificate, or minor. Briefly describe the curriculum plan/template.

Bachelor of Science Degree in Nuclear Medicine Technology (NMT). The proposed curriculum will replace the NMT Bachelor of Science Degree that was Implemented Fall semester 2008. New accreditation standards from the Joint Review Committee on Education Programs in Nuclear Medicine Technology require a redirection in the program, primarily in regards to prerequisites and science courses. The redirection will not change the fact that the first three years of the curriculum will consist of nuclear medicine, general education, science and health care courses while the fourth year will be clinical application at an approved affiliate site.

2. Target date for implementation. Fall Semester 2012

3. Briefly explain the rationale for this initiative. If the initiative involves customization of an existing program for delivery to an off-campus cohort group, also explain the nature of the proposed curricular customization.

The Nuclear Medicine Technology program faculty implemented a Bachelor of Science Degree curriculum Fall semester 2008. At that time the faculty followed the accreditation standards of the Joint Review Committee on Educational Programs in Nuclear Medicine Technology (JRCNMT). New accreditation standards were distributed by the JRC January 5, 2010.

The new accreditation standards state that prerequisites are required in the areas of chemistry, algebra, and physics as well as human anatomy and physiology. In order to comply with the JRC standards, the Nuclear Medicine Technology program

must implement mandatory prerequisite coursework prior to a student's entry into the professional sequence.

The prerequisite courses required in order to comply are MATH 115, Intermediate Algebra; PHYS 130, Concepts in Physics; and CHEM 114, Introduction to General Chemistry. BIOL 205, Human Anatomy and Physiology, can be completed within the professional sequence prior to NUCM 320, Clinical Procedures 2, and NUCM 321, Clinical Procedures 2 Lab. The program faculty would also require MRIS 102, Orientation to Medical Vocabulary, and ENGL 150, English 1, as prerequisites for application into the professional sequence.

PHYS 211, Introductory Physics 1, and PHYS 212, Introductory Physics 2, would no longer be required in the curriculum. PHYS 130, Concepts in Physics, plus the content within the NUCM courses meets the JRC requirements for physics.

In order to meet JRC curriculum content requirements, BIOL 108, Medical Microbiology, and CHEM 124, Introduction to Organic – Biochemistry, would be added as well as four NUCM courses. BIOL 108, Medical Microbiology, meets the microbiology and immunology requirements while CHEM 124, Introduction to Organic – Biochemistry, meets the biochemistry requirement. NUCM 370, Clinical Procedures 3, and NUCM 371, Clinical Procedures 3 Lab, expand the knowledge base for clinical procedures. NUCM 485, NMT Theory 1, and NUCM 486, NMT Theory 2, relate theory (didactic) to practice during clinical internship.

4. Are there similar programs at other Michigan universities? If so, where? What is the enrollment in the other programs? There are no other university based Bachelor of Science Degree programs in Michigan.
5. Briefly explain any similarities of the proposed initiative (program objectives and/or curriculum) with already established FSU or KCAD programs: None.
6. Briefly describe indicators of the employment market for students completing this initiative, including sources used for employment information/data. The U.S. Department of Labor Bureau of Labor Statistics estimates that the occupational outlook for Nuclear Medicine Technology will grow faster than average through 2014 and there will be a need for 21.5% more for Nuclear Medicine Technologists nationwide. According to the Michigan Health Council's Occupational Employment Forecasts 2002 – 2012, the demand for Nuclear Medicine Technologists in the State of Michigan is expected to grow by approximately 100 by 2012.
7. Briefly describe indicators of potential student interest/demand for the new initiative, including sources used for student market information/data. The new initiative's student interest/demand does not change from the 2007 curriculum revision. At that time, 97.4% of students felt a Bachelor of Science Degree in Nuclear Medicine Technology should be offered at Ferris State University (results of a survey of 77 NMT students).
8. To what extent will this initiative draw new students to FSU or KCAD? To what extent will it draw students from existing programs? Due to fact that Ferris has the only Bachelor of Science Degree in Nuclear Medicine Technology in Michigan, students are naturally drawn to it if they wish to pursue this profession. Also, the program is offered at two locations, Big Rapids and Grand Rapids.
9. Approximately how many students are expected to enroll?
_50 in the first year? _150 after three years?

10. At which FSU campuses/regional centers or other sites will the initiative be offered? Big Rapids and Grand Rapids campuses.
11. Will Internet or other distance learning technology be used for course/program delivery? Describe. FerrisConnect is currently used to enhance courses and will continue with the new curriculum. The majority of the courses during internship will be fully on-line.

Complete questions 12, 13, 14 in consultation with department head/chair and/or dean.

12. Provide a rough estimate of the resources needed to implement the initiative:

	Start-up	After Three Years
Supply and expense	\$0	\$0
Equipment	\$0	\$0
Full-time faculty	\$Current faculty	\$Current faculty
Overload/adjunct faculty	\$0	\$8,250
Other		

Estimate of Library Resources	X Adequate	Some new resources needed	Significant number of resources needed
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13. Project the resources that could come from reallocation within the department or college and the new resources that would be required. Resources currently utilized by the Bachelor of Science Degree program in NMT, such as gamma scintillation cameras, would be utilized by students in the proposed curriculum.
14. Are there new space needs? (No) If so, how much? How would the space be used? Has existing space been identified? (Yes) If so, where?(Facilities currently used for BS NMT) Is renovation/remodeling necessary? No.
15. Is there professional accreditation for the program? Is it required or voluntary? Will accreditation be sought, and when? What will be the one-time and ongoing costs of accreditation? Voluntary accreditation is through the Joint Review Committee on Educational Programs in Nuclear Medicine Technology. The NMT program is currently accredited and there are no plans to discontinue accreditation.
16. Has there been preliminary discussion with other departments/colleges that will be involved in course/program delivery? If yes, what was the feedback? Yes, other departments and colleges are supportive of the Bachelor of Science Degree.

Theresa A. Raglin

Department Head/Chair's signature:

Date 02-26-10

If this is an interdepartmental initiative, include additional Department Head/Chair signatures

Comments:

Dean's or KCAD President's signature: Ellen Haneline Date 02-26-10

- For cross-college initiatives, include additional signature(s) of Dean(s)
- For KCAD initiatives, include KCAD President's signature
- For existing FSU-Big Rapids programs customized for off-campus delivery to a cohort group, include College and UCEL Deans' signatures

Comments: I am supportive of the curriculum change to allow the Nuclear Medicine Program to be in compliance with the standards established by their accrediting agency.

Provost/Vice President for Academic Affairs' signature:

[Signature]

Date 3-3-10

or Chancellor/VP of FSU/GR's signature

Approved Approval indicates permission to develop the full proposal. It does not assure final approval.

Comments and/or suggestions: This PCAF represents a very positive response to the needs of the workplace.

Not approved

Explanation:

- c. Initiator(s)
- Department Head/Chair(s)
 - Deans' Council and KCAD President
 - FSU University Curriculum Council
 - FSU Academic Senate and KCAD Senate
 - VPAA or Chancellor/VP of FSU/GR
 - FSU Intranet