

Assessment, Improvement, Measurement (AIM) Report: 03/13/2015**Reporting Years:** 2011-2016**Program:** Nuclear Medicine**Coordinator(s):** Charles Coulston, Karman Wheeler, Martin Baxter**Program Quality and Student Success****External awards or other recognitions of students, faculty, and/or program.**

	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
Students					
Faculty		Charles H Coulston, the program director, was awarded a special service award by Norman Bolus, President, Southeastern Chapter o			
Program (include accreditation if applicable)				JRCNMT self-study document is due Feb 2, 2015 with site visit in fall 2015. A request to extend the deadline to March 1 was app	

Average actual time and credits to degree completion.

	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
General Education Credit Hours	35	35	35		
Technical Credit Hours	36	36	36		
Total Credit Hours	71	71	71		
Number of Graduates	5	5	3		
Average Actual Time to Degree					
Average Actual Credits to Degree					

Employer and student satisfaction.

	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
Employer Satisfaction Survey Results		100% (2/2)	100% (2/2)	0 responses	

Graduate/student satisfaction		100% (3/3) 2010-11 grad surveys	100% (3/3) 2011-12 grad survey	100% (2/2) 2012-13 grads	
Advisory Board/Employer Recommendations for Improvement					

Job placement data for program graduates.

	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
Number of graduates	5	3 surveyed (2010-11 grads)	4 surveyed (2011-12 grads)	2 surveyed (2012-13 grads)	
Number of graduates gaining employment		2	2 employed; 2 in field	2 employed; 2 in field.	
Percentage of graduates gaining employment		67%	50%; 50% in field	100%; 100% in field.	
KY Unemployment Insurance job data				n/a	

Pass rates on licensure/certification exams (if applicable).

	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
Total # graduates attempting		5 (2012 test dates)	5 (2013 test dates)	3 (2014 dates)	
Total # passing on first attempt		5	5	3	
Total # passing after multiple attempts					
Pass rate of all attempting		100	5/5= 100%	100%	

Productivity and Funding

Student measures.

	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
Enrollment (Academic Year)					
Fall Enrollment		11 + 22 pending (Fall 2011)	13 + 11 pndg (Fall 2012)	12 (Fall 2013)	
Credentials Conferred		5 AD (2011-12)	5 AD (2012-13)	3 AAS	
Credit hour production		48 (Fall 2011)	36 (Fall 2012)		

Student credit hour per instructional faculty FTE.

	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
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Student credit hour per instructional faculty FTE.	80 (Fall 2011)	60 (Fall 2012)		
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Extramural funding.

Source of Funding	2011-2012
No funding sources	

Source of Funding	2012-2013
No funding sources	

Source of Funding	2013-2014
No funding sources	

Source of Funding	2014-2015
No funding sources	

Source of Funding	2015-2016
No funding sources	

Comments (2012-2013)

Roles	Comments
Coordinator	
1. Strengths of the Program	
2. Items Requiring Continued Attention	
3. Document and provide evidence indicating how last year's program review resulted in improvements in the program.	<p>Findings: It is difficult to draw conclusions from a class size of 5 graduates (2012) when 1 individual represents 20% of the results. Beginning in 2011, the Nuclear Medicine Technology Certification Board (NMTCB) changed testing companies and the test format so that each of the 4 sub-sections of the exam can be scored individually in addition to the overall exam score. (Previous to 2011, the examinee and the program director received a relative ranking of the 4 sub-sections so that it was difficult to tell how well or poor students performed on the different parts of the exam.) Weighted scores for each sub-section have been a help to start to look for trends where weaknesses in instruction. For the class of 2012, the sub-section with the lowest average was Radiopharmacy. My plan to try to improve the performance in this area is to add some kind of related calculation (radioactive decay, patient dosages, etc) to the daily quizzes given in the lecture class for the spring semester. This may help the students begin to review the kinds of problems they may encounter on the certification examination following graduation. Just a few comments on the supporting document attached to this review. (1) The professional licensure reports a 100% pass rate for the first attempt. There were 5 graduates in the class of 2012 that passed; one passed with high distinction (this is a scaled score of 82 or above). (2) Job Placement - This is for the 2011 graduates. There were 4 graduates: 2 were working part time in Nuclear Medicine, 1 was working PRN (as needed), and 1 did not not find a job within in 6 months of graduate. This individual continued to work at the job he had while in</p>

	school. (3) Unduplicated Head Count - In the academic year 2011-2012 (August to May), there were 4 students that continued from the previous academic year; and 6 students that started in August and continued into January (1 withdrew during the spring semester). This would make a total of 10 continuing students.
Assistant Dean	
Dean	
Vice President	

Comments (2013-2014)

Roles	Comments
Coordinator	
1. Strengths of the Program	1. The nuclear medicine technologists and radiopharmacists who function as voluntary faculty to teach the students in the clinical affiliates anywhere from 16 - 30 hours/week. Without their participation and cooperation, there would be no program. All of the hospitals, one out-patient facility, the local radiopharmacy, and other assorted affiliates offer their facilities for clinical education with no compensation. 2. A program director that teaches the entire curriculum outside the clinical education. This is both a strength and a weakness. Not many programs that I'm aware of in the southeastern region have a single faculty member teaching all the didactic courses. This will be a real challenge to a new or relatively inexperienced faculty member hired to replace the current program director when the time comes. 3. When job openings occur in the local market, graduates are almost always hired as a result of having been assigned as a student to that particular affiliate. 4. The program director has just finished a year as president of the KY Society of Nuclear Medicine Technologists and as a co-chair of the 2013 program committee for the Southeastern Chapter Society of Nuclear Medicine & Molecular Imaging to model for the students involvement in the state and regional professional societies.
2. Items Requiring Continued Attention	1. With 5 students it is difficult to look at the certification examination results to find a specific weakness in the curriculum. A review of the scores of the 4 sub-sections of the certification exam shows that all 4 categories rank as the highest score for at least 1 or more of the students, and that 3 of the 4 categories ranked as the lowest score for at least 1 or more of the students. These are the same exam results as 2012 - all 4 sub-categories were represented in at least 1 student's highest scores, and all were represented in at least 1 student's lowest scores. If there was any statistical improvement in the effort to raise the targeted area of radiopharmacy between 2012 to 2013, it was undetectable.
3. Document and provide evidence indicating how last year's program review resulted in improvements in the program.	
Assistant Dean	I have reviewed and support the comments made by the Nuclear Medicine coordinator. We have currently made this program a wait listed program in order to increase the applicant pool. This year's numbers were similar to years past. The exam results are similar to past years.
Dean	Concur with comments from AD. Few students enrolled and graduating. May need to look at way to enhance enrollment. 67% of students received jobs in field.
Vice President	I agree with Assistant Dean and Dean comments. Even though this is a high-wage program, the college will take a close look at this program to determine how we can effectively and efficiently meet student and industry needs.

Comments (2014-2015)

Roles	Comments
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Coordinator	
1. Strengths of the Program	The pass rate (1st attempt) for the 2014 graduates was 100% on the Nuclear Medicine Technology Certification Board (NMTCB). For the first time in several years, all of the graduates had employment prospects at the time of graduation. All of the graduates were employed by November following graduation.
2. Items Requiring Continued Attention	For the past 4 years, the NMTCB (certification examination) has assigned scaled scores to the 4 major categories of the certification exam in addition to the overall exam scaled score. (Previously the categories were ranked 1-4 to indicate how well or poor the student did in the various parts of the exam.) The program director and program advisory committee have reviewed and discussed the categorical scores from the NMTCB to try to identify specific weaknesses in the curriculum.
3. Document and provide evidence indicating how last year's program review resulted in improvements in the program.	After review of 4 years of cumulative data from the NMTCB, the graduates results are uniformly distributed among the 4 major categories/subdivisions of the certification exam that no specific area of weakness stands out to the committee. Additional efforts in quality control and radiopharmaceutical dosage calculations were to be added to the respective courses for students to have more practice going into the examination following graduation.
Assistant Dean	I have reviewed and support the comments of the Nuclear Medicine coordinator. We have increased recruitment by changing the program to a wait-listed program. Placement continues to improve.
Dean	Academics is currently working with the One program faculty to seek an increase in student enrollment. Time will tell if the student popn will increase. Coordinator needs to seek inventive ways to offer program and increase advisor committee numbers for support as well.
Vice President	I concur with Assistant Dean and Dean comments. I appreciate Charles' efforts with regard to reinvigorating this high demand/high wage program. Like with all other technical programs, I encourage the program to consider additional apprenticeship and other industry sponsorship opportunities.