Detailed Assessment Report
As of: 5/08/2015 04:02 PM EDT

2012-2013 Medical Imaging Technology BS
(Includes those Action Plans with Budget Amounts marked One-Time, Recurring, No Request.)

Mission / Purpose

The Mission of the Division of Allied Health Sciences at Indiana University Kokomo is to develop lifelong learners who are engaged in leadership, scholarship, and service within their communities. They will be influential in the health and well being of persons across diverse populations. The Division of Allied Health Sciences prepares practitioners who combine the art and science of their health professions with high ethical and moral standards. These skillful professionals display compassion and respect in their decisions, communications, and actions.

Vision Statement:

The Division is committed to its students and the community by offering programs which enrich, encourage growth, lead to success and promote life-long learning. This can be evidenced by:

In accordance with the mission statement, the AHLT subscribes to the following student outcomes:

1. 1. To prepare students to function as members of a health care team

2. 2. To provide effective didactic education that offers the student knowledge required of a health care professional.

3. 3. To provide the skills required to function as an allied health professional.

4. 4. To instill the attitudes and ethics required of an allied health professional.

Goals

G 1:GOAL 1: Students will be prepared for responsibilities of entry level, registered, advanced modality technologists.

Graduating students will have the skills necessary to independently function as an entry level technologist, in their chosen modality. They will possess the knowledge required to be a contributing technologist, through diagnostic imaging and comprehensive patient care.

Student Learning Outcomes/Components, with Any Associations and Related Artifacts/Objects, Benchmarks, Findings, and Action Plans

S 1:Employers will hire IU Kokomo MIT future graduates 1.1

Using employer surveys, employers will hire future IU Kokomo Graduates.

Related Artifacts/Objects:

A 1:Employer Survey
The employer survey is modeled after requirements outlined by JRCERT, accrediting agency for radiologic science programs. The employers, nonspecific to hospital or clinic,chosen for surveys are those who have hired recent graduating students. This survey is given annually 6 months post graduation.

Source of Evidence: Employer survey, incl. perceptions of the program

Benchmark:
90% of employers will indicate they will hire future graduates if budget allows.

Findings (2012-2013) - Benchmark: Met

Results from 2013: 100% of returned surveys indicated employers were satisfied with and would hire future graduates if budget allowed.

Related Action Plans (by Established cycle, then alpha):

For full information, see the *Details of Action Plans* section of this report.

Employers will hire IU Kokomo MIT future graduates 1.1
Established in Cycle: 2012-2013
On a yearly basis, in January, the expected outcomes will be continued to be monitored by the faculty or Program Director.

S 2:Graduates will be satisfied with the outcomes of the program 1.2 A
Using graduate surveys, the graduates will be completely or mostly satisfied with the Medical Imaging Technology BS program.

Related Artifacts/Objects:

A 2:Exit Interview: Program Satisfaction 1.2 A
The graduation survey is modeled after requirements outlined by JRCERT, accrediting agency for radiologic science programs. This survey is given annually 6 months post graduation. The end of program survey question #17: "I would re-enroll in the program, if I had the opportunity to start over."

Source of Evidence: Exit interviews with grads/program completers

Benchmark:
80% of the graduates will be satisfied with the program.

Findings (2012-2013) - Benchmark: Met
100% of the 2013 graduates are completely satisfied or mostly satisfied with the program.

Related Action Plans (by Established cycle, then alpha):

For full information, see the *Details of Action Plans* section of this report.

Graduates will be satisfied with the outcomes of the program 1.2 A-D

Established in Cycle: 2012-2013

On a yearly basis, in January, the expected outcomes will be continued to be monitored by the faculty or Program Director.

S 3:Graduates will be satisfied with the outcomes of the program 1.2 B

Using graduate surveys, the graduates will choose satisfied or mostly satisfied with the Medical Imaging Technology BS program.

Related Artifacts/Objects:

A 3:Alumni Survey: Graduate Recommendation 1.2 B

The graduation survey is modeled after requirements outlined by JRCERT, accrediting agency for radiologic science programs. This survey is given annually 6 months post graduation.

Source of Evidence: Alumni survey or tracking of alumni achievements

Benchmark:

At least 80%,of the graduates will recommend the Medical Imaging Technology BS program to others.

Findings (2012-2013) - Benchmark: Met

100% of 2013 graduates indicated "yes" they will refer others to the Medical Imaging Technology BS program.

Related Action Plans (by Established cycle, then alpha):

For full information, see the *Details of Action Plans* section of this report.

Graduates will be satisfied with the outcomes of the program 1.2 A-D

Established in Cycle: 2012-2013

On a yearly basis, in January, the expected outcomes will be continued to be monitored by the faculty or Program Director.

S 4:Graduates will be satisfied with the outcomes of the program 1.2 C

Using graduate surveys, the graduate will be satisfied with programs didactic preparation for national registry examinations.

Related Artifacts/Objects:

A 4:Exit Interview: Didactic preparation 1.2 C

The graduation survey is modeled after requirements outlined by JRCERT, accrediting agency for radiologic science programs. This survey is given annually 6 months post graduation. The end of program- MIT, exit interview contains several questions related to didactic preparation in multiple areas of academia (textbooks, resources, assignments, instructor simulations, etc...)

Source of Evidence: Exit interviews with grads/program completers

Benchmark:
At least, 80% of the graduates believe the didactic material corresponded to all or most of their entry level duties.

Findings (2012-2013) - Benchmark: Met
100% of the 2013 graduates believe all of the didactic material corresponded to all or most of their entry level duties.

Related Action Plans (by Established cycle, then alpha):

For full information, see the *Details of Action Plans* section of this report.

Graduates will be satisfied with the outcomes of the program 1.2 A-D
Established in Cycle: 2012-2013

On a yearly basis, in January, the expected outcomes will be continued to be monitored by the faculty or Program Director.

S 5:Graduates will be satisfied with the outcomes of the program 1.2 D

Using graduate surveys, the graduate will be satisfied with the clinical education received in the Medical Imaging Technology BS program.

Related Artifacts/Objects:

A 5:Exit Interview: Clinical preparation 1.2 D
The graduation survey is modeled after requirements outlined by JRCERT, accrediting agency for radiologic science programs. This survey is given annually 6 months post graduation. The exit interview has multiple questions involving the efficacy of clinical experience during the Medical Imaging Technology BS program.

Source of Evidence: Exit interviews with grads/program completers

Benchmark:
At least, 80% of the graduates will believe their clinical education prepared for all or the majority of their entry level procedures.

Findings (2012-2013) - Benchmark: Met
100% of the graduates, for 2013, believe the clinical education contributed to all or the majority of their entry level clinical procedures.

Related Action Plans (by Established cycle, then alpha):

For full information, see the *Details of Action Plans* section of this report.

Graduates will be satisfied with the outcomes of the program 1.2 A-D
Established in Cycle: 2012-2013

On a yearly basis, in January, the expected outcomes will be continued to be monitored by the faculty or Program Director.

S 6:Graduates will pass national certifying examination 1.3 A

Graduates will successfully pass a national certifying body examination, in their chosen advanced modality, on their first attempt, within 6 months of program completion.

Related Artifacts/Objects:

A 6:Licensure Exam: Overall National certification examination 1.3 A
Graduates will successfully pass an advanced modality examination on their 1st attempt within 6 months of program completion, administered by a national certifying body.

Source of Evidence: Certification or licensure exam, national or state

Benchmark:
AT least, 80% of the graduates will pass an advanced modality, from a national certifying body, examination on their first attempt, within 6 months of graduation.

Findings (2012-2013) - Benchmark: Met
100% of the 2013 graduating students passed their national certifying examination, in their advanced modality, on the first attempt 6 months after graduation.

Related Action Plans (by Established cycle, then alpha):

For full information, see the *Details of Action Plans* section of this report.

Graduates will pass national certifying examination 1.3 A
Established in Cycle: 2012-2013

On a yearly basis, in January, the expected outcomes will be continued to be monitored by the faculty or Program Director.

S 7:Graduates will pass national certifying examination 1.3 B
Graduates will pass a national certifying body examination, with a score greater than 7.5, on the first attempt, within 6 months of program completion.

Related Artifacts/Objects:

A 7:Licensure Exam: Section scores on National Certifying Examinations 1.3 B
Graduates will pass a national certifying examination, in an advanced modality, with a score of 7.5 or greater (on a scale of 1.0-9.9), in each section of the examination.

Source of Evidence: Certification or licensure exam, national or state

Benchmark:
At least, 80% of the graduating students will pass the national certifying examination, in an advanced modality, with a 7.5 or greater score, in each section of the examination.

Findings (2012-2013) - Benchmark: Met
100% of the 2013 graduating students have passed each section of the national certifying examination, in an advanced modality.

Related Action Plans (by Established cycle, then alpha):

For full information, see the *Details of Action Plans* section of this report.

Graduates will pass national certifying examination 1.3 B
Established in Cycle: 2012-2013

On a yearly basis, in January, the expected outcomes will be continued to be monitored by the faculty or Program Director.

S 8:Students will graduate from the program 1.4

Graduates will complete the Medical Imaging Technology BS program.

Related Artifacts/Objects:

A 8:Retention Rates 1.4
Student retention determines completion of Medical Imaging Technology BS program success.

Source of Evidence: Academic indirect indicator of learning - other

Benchmark:
At least, 85% retention rate of graduates completing Medical Imaging Technology BS program.

Findings (2012-2013) - Benchmark: Met
100% of students have graduated in 2013 from the Medical Imaging Technology BS program.

Related Action Plans (by Established cycle, then alpha):

For full information, see the *Details of Action Plans* section of this report.

Students will graduate from the program 1.4
Established in Cycle: 2012-2013

On a yearly basis, in January, the expected outcomes will be continued to be monitored by the faculty or Program Director.

S 9:Program graduates looking for employment, will be employed within 6 months of graduation 1.5

Graduates, actively looking for employment, will be employed within 6 months of graduation.

Related Artifacts/Objects:

A 9:Job Placement Data 1.5
Using the graduate survey or the employer survey, graduating students will be employed within 6 months of graduation.

Source of Evidence: Job placement data, esp. for career/tech areas

Benchmark:
80% of the graduating students will be employed within 6 months of graduation.

Findings (2012-2013) - Benchmark: Met
100% of the graduating students actively looking for employment have found employment performing their modality within 6 months post graduation.

Related Action Plans (by Established cycle, then alpha):

For full information, see the *Details of Action Plans* section of this report.

Program graduates looking for employment, will be employed within 6 months of graduation 1.5
Established in Cycle: 2012-2013

On a yearly basis, in January, the expected outcomes will be continued to be monitored by the faculty or Program Director.

Details of Action Plans for This Cycle (by Established cycle, then alpha)

Employers will hire IU Kokomo MIT future graduates 1.1
On a yearly basis, in January, the expected outcomes will be continued to be monitored by the faculty or Program Director.

Established in Cycle: 2012-2013
Implementation Status: In-Progress
Priority: High

Relationships (Artifact/Object | Outcomes/Components):
Artifact/Object: Employer Survey | **Outcomes/Components:** Employers will hire IU Kokomo MIT future graduates 1.1

Responsible Person/Group: Faculty or Program Director

Graduates will be satisfied with the outcomes of the program 1.2 A-D

On a yearly basis, in January, the expected outcomes will be continued to be monitored by the faculty or Program Director.

Established in Cycle: 2012-2013
Implementation Status: In-Progress
Priority: High

Relationships (Artifact/Object | Outcomes/Components):
Artifact/Object: Alumni Survey: Graduate Recommendation 1.2 B |
Outcomes/Components: Graduates will be satisfied with the outcomes of the program 1.2 B
Artifact/Object: Exit Interview: Clinical preparation 1.2 D |
Outcomes/Components: Graduates will be satisfied with the outcomes of the program 1.2 D
Artifact/Object: Exit Interview: Didactic preparation 1.2 C |
Outcomes/Components: Graduates will be satisfied with the outcomes of the program 1.2 C
Artifact/Object: Exit Interview: Program Satisfaction 1.2 A |
Outcomes/Components: Graduates will be satisfied with the outcomes of the program 1.2 A

Responsible Person/Group: 1.2 A and 1.2 B Faculty and Program Director; 1.2 C and 1.2 D Faculty or Program Director and Advisory Committee

Graduates will pass national certifying examination 1.3 A

On a yearly basis, in January, the expected outcomes will be continued to be monitored by the faculty or Program Director.

Established in Cycle: 2012-2013
Implementation Status: In-Progress
Priority: High

Relationships (Artifact/Object | Outcomes/Components):
Artifact/Object: Licensure Exam: Overall National certification examination 1.3 A |
Outcomes/Components: Graduates will pass national certifying examination 1.3 A

Responsible Person/Group: Faculty or Program Director

Graduates will pass national certifying examination 1.3 B

On a yearly basis, in January, the expected outcomes will be continued to be monitored by the faculty or Program Director.

Established in Cycle: 2012-2013
Implementation Status: In-Progress
Priority: High

Relationships (Artifact/Object | Outcomes/Components):

Artifact/Object: Licensure Exam: Section scores on National Certifying Examinations 1.3 B | **Outcomes/Components:** Graduates will pass national certifying examination 1.3 B

Responsible Person/Group: Faculty or Program Director

Program graduates looking for employment, will be employed within 6 months of graduation 1.5

On a yearly basis, in January, the expected outcomes will be continued to be monitored by the faculty or Program Director.

Established in Cycle: 2012-2013
Implementation Status: In-Progress
Priority: High

Relationships (Artifact/Object | Outcomes/Components):
Artifact/Object: Job Placement Data 1.5 | **Outcomes/Components:** Program graduates looking for employment, will be employed within 6 months of graduation 1.5

Responsible Person/Group: Faculty or Program Director

Students will graduate from the program 1.4

On a yearly basis, in January, the expected outcomes will be continued to be monitored by the faculty or Program Director.

Established in Cycle: 2012-2013
Implementation Status: In-Progress
Priority: High

Relationships (Artifact/Object | Outcomes/Components):
Artifact/Object: Retention Rates 1.4 | **Outcomes/Components:** Students will graduate from the program 1.4

Responsible Person/Group: Faculty or Program Director

Analysis Questions and Analysis Answers

What did you learn about your students' learning from the assessment process in the most recent year?

Based on the scores from national certification exams, the students are learning beyond what the national average or "norm" is considered. There are a few scores at the national average mark but the majority are above. Based on this result, as well as monitoring individual course exams and assignments, indicate a willingness and ability to learn an enormous amount of material in a relatively short period of time.

How widely and frequently have these results been discussed with your program faculty?

Program faculty discuss these results on a routine basis. Since graduates may take the certification examinations any time after graduation, we discuss the results as students inform us they have passed exams. This can be as frequently as weekly or as infrequently as bimonthly. In addition, the program director obtains an annual report reflecting a conglomeration of the scores of the cohort. This report is shared annually upon its generation.

What do these results mean for your program?

These results indicate the overall program effectiveness. The faculty prefer to continue to follow the outlined objectives in order to maintain the high level of success we have achieved with the program results. At the first sign of any faltering, the faculty will be able to adjust accordingly in order to maintain success levels. Furthermore, because program faculty have been kept apprised of the data and reports, there is a keen sense of investment on the part of each professor. It further serves to foster the strong interpersonal relationships necessary for overall program and student success.

What are your next steps going forward?

Program faculty strongly feel it is crucial to continue monitoring the outlined goals, objectives, and components. Maintaining these levels of success will serve to aid in continued enrollment and success. Further, the chosen components, while for the overall program, serve as a reflection of the individual courses within the program. If the overall program is not successful, the individual courses are not meeting the necessary requirements. If the individual courses are meeting the requirements, the program effectiveness will continue to reflect these results. Program faculty are also committed to weekly discussions, at a minimum, for reflections on individual courses. Continuing to evaluate the successes within the individual courses and their alignment with the curriculum guidelines in place for national certification exams will ensure all necessary topics are disseminated.

Annual Report Section Responses

[SAMPLE] Highlights

Goal 1: Outcome 1.1

At the close of the 2013 academic year, the MIT program has been 6 years in existence and has graduates employed in 31 different hospitals, 6 different imaging centers, 3 different physician practices, 4 different mobile imaging companies, 1 educational facility, 6 different states, and 3 different countries including the U.S. increased from 8 different hospitals, two imaging centers, and one educational during the first 3 years of the program's existence. We believe the number of employment places and satisfaction with our graduates indicates the quality of our program. The program is satisfied with these results especially in light that all positions for 2008 graduates would likely not be offered to individuals lacking a baccalaureate degree, nor

would the additional 2009-2013 graduates have likely been offered the positions they were if they were not educated in multiple imaging modalities. In addition, eleven (13) employers have hired graduates from the program and then subsequent graduates as funding and positions became available. We believe this is evidence that this sentiments reflected in the surveys are reinforced by actions.

Goal 1: Outcome 1.2

1.2 A) The B.S program now has six (6) years of data from the graduating classes of 2008 -2013, rolling 5 years reflected on this document 2009-13. Considering all graduating classes have met this benchmark at 100%, it is believed that there is a high level of satisfaction and no action should be taken at the present. The program will continue to monitor this outcome.

1.2 B) The program will monitor this outcome. The program has received information from at least five (5) graduating classes and graduate survey results were returned from approximately ½ of these students. At this time, the returned surveys indicate graduates would recommend this program to others at 100%. It is believed there is a high level of satisfaction in order to achieve this result but program faculty feel it is important to continue to monitor this outcome as this is a great indicator for continued enrollment.

1.2 C and D) The program will monitor these outcomes. See analysis action plan B. Expanding on result C, it is worth noting that the individuals for 2008 did indicate that total correlation for entry level duties were achieved through clinical education and that 90-100% of certification examination material was covered throughout the course of the program. Similar comments were made by students on the classes of 2009-2011 surveys. Due to some adjustments with didactic material and more returned surveys for the classes of 2009 - 2013, the "C" results saw a dramatic increase. The program will continue to monitor these results. The program will continue to monitor this outcome to ensure material covered in both the didactic and clinical setting correlates to entry level professional duties.

Goal 1: Outcome 1.3

Outcome 1.3 A

2013: As of April 7, 2014, 100% of MRI graduates had passed the registry on the first attempt compared to 82.6% of first time takers nationally. In addition, the mean score for our graduates was 86.8 compared to the national mean score of 82.8. It is notable to mention that the registry recalculated the scoring method for this registry which resulted in lower average scores nationwide compared to previous years. Also, 100% of the ultrasound students who had attempted the registry passed on the first attempt. Due to the limited number of individuals who had opted to attempt this exam at this time, program scores are not available in an attempt to maintain privacy. Only the pass rate is given which is 100%. The program feels this outcome is still important to measure as it is a strong indicator of program effectiveness.

2012: Due to limited number of individuals in the program per modality and participating in certification examinations, ARRT did not provide scoring data in order to protect privacy. It is noted that individuals must pass with a score of 75% or higher to become certified. In addition, not all 2012 graduates have taken the exams, which is why we evaluate in November. But, the graduates who have attempted, have passed the certification examinations at or above national average on the first attempt. Additionally, at least two individuals from this cohort have passed ARDMS sonography certification examinations. **update 4/7/13 - all individuals passed their respective certification examinations.

2011: Due to limited number of individuals in the program per modality and participating in certification examinations, ARRT did not provide scoring data in order to protect privacy. It is noted that individuals must pass with a score of 75% or higher to become certified. In addition, not all 2010 graduates have taken the exams, which is why we evaluate in November. But, the graduates who have attempted, have passed the certification examinations at or above national average on the first attempt. Additionally, four individuals from this cohort have passed ARDMS sonography certification examinations.

2010: Due to limited number of individuals in the program and participating in certification examinations, ARRT did not provide scoring data in order to protect privacy. It is noted that individuals must pass with a score of 75% or higher to become certified. In addition, not all 2010 graduates have taken the exams, which is why we evaluate in November. But, the graduates who have, have passed the certification examinations at or above national average on the first attempt. Additionally, one individual has passed the ARDMS sonography certification examinations.

2009: Due to limited number of individuals in the program and participating in certification examinations, ARRT did not provide scoring data in order to protect privacy. It is noted that individuals must pass with a score of 75% or higher to become certified. Additionally, one individual has passed the ARDMS sonography certification examinations.

2008: Due to limited number of individuals in the program and participating in certification examinations, ARRT did not provide scoring data in order to protect privacy. Additionally, one individual has passed both ARRT and ARDMS sonography certification examinations. It is important to note that the ultrasound cohort chose to reveal scores and the average score placed our ultrasound program 2nd in the nation for mean score performance (the 2008 cohort completed this exam in 2009 so the data reflected in 2009 statistics was actually reflective upon the 2008 graduating class.)

Outcome 1.3 B

2013: At this time, all registry takers have passed above the 7.5 mark because all takers have passed. 7.5 is the minimum required to pass each section. Rolling average report show one person failed meeting this requirement; however, this person did not attempt to take the registry within 6 months, but rather greater than one year which tends to decrease success rate. This taker graduated in 2009 and has not happened since.

2012: At this time, all registry takers have passed above the 7.5 mark because all takers have passed. 7.5 is the minimum required to pass each section. Rolling average report show one person failed meeting this requirement; however, this person did not attempt to take the registry within 6 months, but rather greater than one year which tends to decrease success rate. This taker graduated in 2009 and has not happened since.

2011: Due to limited number of individuals in the program and participating in certification examinations, ARRT did not provide scoring data in order to protect privacy. It is important to note that once a 5 year average is established, the ARRT overall scores will be obtainable as an average rolling cohort and will be assessed at that time.

2010: Due to limited number of individuals in the program and participating in certification examinations, ARRT did not provide scoring data in order to protect privacy.

2009: Due to limited number of individuals in the program and participating in certification examinations, ARRT did not provide scoring data in order to protect privacy.

2008: Due to limited number of individuals in the program and participating in certification examinations, ARRT did not provide scoring data in order to protect privacy.

Goal 1: Outcome 1.4

2013: 14 full-time students started the program in July 2012. 14 of 14 graduated on time May 2013. 1 part-time student began the program August 2011 and graduated on time August 2013 according to her plan of completion. Program faculty feel it is important to continue to monitor these results as they are a strong indicator of program satisfaction and effectiveness.
2012: 6 of 6 full-time students started the program in July 2011. 5 of 6 graduated on time May 2012. 1 of 6 is scheduled to graduate August 2012 due to the need to complete a pre-requisite (was admitted conditionally with this understanding). 1 of 1 part-time student began the program August 2010 and graduated on time May 2012 according to her plan of completion. **The student who was scheduled to graduate August 2012 did finally complete her requirement and graduated successfully.
2011: 16 full-time students started the program in July 2010 (extended the program by one month starting 2010 based on returned student surveys and comments for

improvements). 15 of 16 graduated on time in May 2011 while 1 of 16 graduated on time in August due to the need to complete one last pre-requisite (was admitted conditionally with this understanding).
2010: 8of 8 full-time students started the program and graduated on time May 2010; 1 of 1 part-time student began the program in August 2008 and graduated according to her plan of completion in May 2010.
2009: 7 of 7 full-time students started the program and graduated on time May 2009
2008: 4 of 4 students starting the program in graduated on time May 2008.

Goal 1: Outcome 1.5

2013: All 2013 graduates who have actively sought employment within their modality have become employed within the 6 month time frame. Program faculty feel it is important to continue to monitor this outcome as it is an indicator of current and future market trends.
2012: Unable to gather data since time frame is designated "6 months" post graduation **According to contact with May 2012 graduates, 6 of 7 have found employment but a formal survey will be sent in November to allow for the 6 month post graduation time allotment. **Update: the one graduate did find employment within the 6 month time frame.
2011: All 2011 graduates seeking employment found such well within the 6 month time frame. Several were offered multiple positions.
2010: All 2010 graduates seeking employment found such well within the 6 month time frame. Several were offered positions from multiple employers.
2009: All 2009 graduates were able to find employment well within the 6 month time frame.
2008: All 2008 graduates were able to find employment well within the 6 month time frame. Two graduates became lead technologists in their modalities shortly following graduation.