**Mission Statement:** The Medical Radiography Program at Clark College will prepare its graduates to perform as highly skilled members of the healthcare team and provide safe and compassionate patient care in a multitude of clinical settings.

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| **Goal 1(Clinical Competency): STUDENTS WILL BE CLINICALLY COMPETENT.** | | | | | | |
| **Student Learning Outcome** | **Tool** | **Benchmark** | **Timeframe** | **Person Responsible** | **Actual Results** | **Analysis/Action Plan** |
| Students will apply positioning skills. | Clinical Instructor (CI) Eval Q7 | ≥3.0 on a scale of 1-4 | 4th quarter (MRAD123)  8th quarter (MRAD 227) | Clinical Instructor | 3.33  3.61 | MRAD 123 Clinical Experience III fall 2011 3.33 out of 4.0. Individual education plans will be reviewed to determine which exams the students are struggling with and action plans given.  MRAD 227 Clinical Experience fall 2012 3.61 out of 4.0. Students demonstrated improvement in positioning skills during their last clinical course. |
| Lab Final Q #5 | ≥85% | 3rd qtr (MRAD 143)  4th qtr (MRAD 245) | Faculty | 84.26% | This will be utilized for MRAD 143 Rad Positioning III summer 13.  MRAD 245 Radiographic Positioning V winter 12 results demonstrated an 84.26% in positioning skills. Most students scored 17 to 24 out of 24 possible points. Instructor and Program Director reviewed this to see why the results were lower than the benchmark. It was felt that the students needed additional preparation for the lab final and this preparation will be included in the MRAD 012 Skills Enhancement Lab which is a co-requisite course. |
| Students will demonstrate radiation protection. | Log Sheets (repeat rate) | ≤ 10% Class average | 4th quarter (MRAD123)  8th quarter (MRAD 227) | Clinical Coordinator | 5.4%  3.5% | MRAD 123 Clinical Experience III fall 2011 met benchmark. Log sheets will be reviewed by Clinical Coordinator to determine if there are areas of concern by individuals or groups of students. Students improved compared to their first clinical course with a 7.6% repeat rate.  MRAD 227 Clinical Experience fall 2012 3.5% repeat rate. Students demonstrated a significant improvement in decreasing the repeat rate during their last clinical course. |
| CI eval  Q #8 | ≥3.0 on a scale of 1-4 | 4th quarter (MRAD123)  8th quarter (MRAD 227) | Clinical Instructor | 3.61  4.00 | MRAD 123 fall 2011 3.61 out of 4.0.  MRAD 227 Clinical Experience fall 2012 4.0 out of 4.0. Students demonstrated marked improvement in radiation protection during their last clinical course. |
| **Goal 1(Clinical Competency): STUDENTS WILL BE CLINICALLY COMPETENT.** | | | | | | |
| **Student Learning Outcome** | **Tool** | **Benchmark** | **Timeframe** | **Person Responsible** | **Actual Results** | **Analysis/Action Plan** |
| Students will demonstrate patient care. | Clinical Instructor Eval Q #? | ≥3.0 on a scale of 1-4 | 4th qtr (MRAD123)  8th qtr (MRAD 227) | Clinical Instructor |  | We will use a new Clinical Instructor Eval tool for the 2013 cohort. |
| Lab final Q #3 | ≥85% | 3rd qtr (MRAD 143)  4th qtr (MRAD 245) | Lab Instructor | 99.6% | This will be utilized for MRAD 143 summer 13.  MRAD 245 Radiographic Positioning V winter 12 results demonstrated a high skill level in patient care. Continue to monitor trend with next cohort. |

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| **Goal 2 (Communication): STUDENTS WILL DEMONSTRATE COMMUNICATION SKILLS.** | | | | | | |
| **Student Learning Outcome** | **Tool** | **Benchmark** | **Timeframe** | **Person Responsible** | **Actual Results** | **Analysis/Action Plan** |
| Students will accurately explain procedures. | Clinical Instructor Eval Q #6 | ≥3.0 on a scale of 1-4. | 4th quarter (MRAD123)  8th quarter (MRAD 227) | Clinical Instructor | 3.83  4.00 | MRAD 123 Clinical Experience III fall 2011 3.83 out of 4.0  MRAD 227 Clinical Experience fall 2012 4.0 out of 4.0. Students demonstrated improvement in communication with patients during their last clinical course. |
| Lab Final  Q #2 | ≥85% | 3rd quarter  (MRAD 143)  4th quarter  (MRAD 245) | Lab Instructor  “ “ | 96.83% | This will be utilized for MRAD 143 summer 13.  MRAD 245 winter 12 results demonstrated a high skill level in communications and explaining procedures to simulated patients. Continue to monitor trend with next cohort. |
| **Goal 2 (Communication): STUDENTS WILL DEMONSTRATE COMMUNICATION SKILLS.** | | | | | | |
| **Student Learning Outcome** | **Tool** | **Benchmark** | **Timeframe** | **Person Responsible** | **Actual Results** | **Analysis/Action Plan** |
| Students will listen attentively. | Clinical Instructor Eval  Q#10 | ≥3.0 on a scale of 1-4 | 4th quarter (MRAD123)  8th quarter (MRAD 227) | Clinical Instructor  “ “ | 3.5  3.9 | MRAD 123 Clinical Experience III fall 2011 3.5 out of 4.0 or 88%.  MRAD 227 Clinical Experience fall 2012 3.9 out of 4.0 or 97%. Students demonstrated an increase in their ability to follow instructions and listen attentively during their last clinical course. |
| Lab Final (pt history) Q #4 | ≥85% | 3rd quarter  (MRAD 143)  4th quarter  (MRAD 245) | Lab Instructor  “ “ | 94.44% | This will be utilized for MRAD 143 summer 13  MRAD 245 winter 12 results demonstrated a high skill level in communications with students listening attentively. Continue to monitor trend with next cohort. |
| Students will apply age appropriate communication | Clinical Instructor Eval Q #? (2013) | ≥3.0 on a scale of 1-4 | 1st peds comp (usually 1st yr)  2nd  peds comp (usually 2nd yr) | Clinical Instructor |  | For fall 2013 we will be using a different Clinical Instructor evaluation form to incorporate this outcome. |
| Quiz 2 (4 questions) | ≥85% | 1st quarter  (MRAD 102)  4th quarter (MRAD 214) | Didactic Instructor | 100% | Winter 2013 in MRAD 102 four quiz questions were developed to evaluate age specific communication. |

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| **Goal 3 (Critical Thinking): STUDENTS WILL UTILIZE CRITICAL THINKING SKILLS.** | | | | | | |
| **Student Learning Outcome** | **Tool** | **Benchmark** | **Timeframe** | **Person Responsible** | **Actual Results** | **Analysis/Action Plan** |
| Students will perform non-routine exams. | Clinical Instructor Eval Q #? | ≥3.0 on a scale of 1-4 | 4th quarter (MRAD123)  8th quarter (MRAD 227 | Clinical Instructor |  | For the 2013 cohort we will be using a different Clinical Instructor evaluation form to incorporate this outcome. |
| Lab eval – Timed trauma lab test | ≥85% | 4th quarter  MRAD 012  6th quarter  MRAD 013 | Lab Instructor |  | Will implement in MRAD 012 fall 2013 and MRAD 013 in spring 2014 |
| Students will evaluate image quality. | Images II & IV  Image eval presentation | ≥85% | 4th qtr.  MRAD 153  6th qtr.  MRAD 154 | Didactic Instructor | 94%  95% | MRAD 153 fall 2011 demonstrated a high level of the average score.  MRAD 154 demonstrated a slight improvement with an already high score previously in MRAD 153. |
| Lab final Q #9 | ≥85% | Lab Final  MRAD 143  Lab Final  4th qtr  MRAD 245 | Lab Instructor | 81.60% | This will be utilized for MRAD 143 summer 13.  For the Fall 2011 MRAD 245 Rad Positioning course (evaluating image quality) one student had a score of 6 out of 16 points, without that score the average is 84%. Even with that consideration the benchmark was still not met. We reviewed/analyzed results and determined that adding an image evaluation to the MRAD 012 Skills Enhancement Lab will assist the students in reviewing prior to the final which for the next cohort will be fall 2013 MRAD 244 (due to a update in sequence and content which moved GIs from MRAD 245 to 244 and skull from 244 to 245). |
| **Goal 3 (Critical Thinking): STUDENTS WILL UTILIZE CRITICAL THINKING SKILLS.** | | | | | | |
| **Student Learning Outcome** | **Tool** | **Benchmark** | **Timeframe** | **Person Responsible** | **Actual Results** | **Analysis/Action Plan** |
| Students will recognize proper procedures for emergency situations. | Quiz #4,6, &10 (14 questions) for MRAD 102  Quiz | ≥80%  ≥80% | 1st quarter MRAD 102)  4th Qtr MRAD 214 Quiz | Didactic Instructor | 95% | For the 2013 cohort they had quiz questions on emergency procedures for MRAD 102 & will have for MRAD 214 contrast reactions (fall 2013). |

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| **Goal 4 (Professionalism): STUDENTS WILL DEMONSTRATE PROFESSIONALISM.** | | | | | | |
| **Student Learning Outcome** | **Tool** | **Benchmark** | **Timeframe** | **Person Responsible** | **Actual Results** | **Analysis/Action Plan** |
| Students will demonstrate ethical behavior. | Ethics/HIPAA 3 questions in quiz #1 & 9 | ≥80% | 1st quarter (MRAD 102) | Didactic Instructor | 98% | MRAD 102 - Winter 2013 had questions on HIPAA and ethics |
| CIinical Instructor eval  Q#? | ≥3.0 on a scale of 1-4 | 4th quarter (MRAD123)  8th quarter (MRAD 227) | Clinical Instructor |  | For the 2013 cohort we will be using a different Clinical Instructor evaluation form to incorporate this outcome. |
| Students will demonstrate a positive attitude in clinical situations. | CIinical Instructor eval  Q#5 | ≥3.0 on a scale of 1-4 | 4th quarter (MRAD123)  8th quarter (MRAD 227) | Clinical Instructor | 3.89  4.00 | MRAD 123 fall 2011 3.89 out of 4.0  MRAD 227 Clinical Experience fall 2012 4.0 out of 4.0. Students demonstrated improvement in a positive attitude during their last clinical course. |
| Lab eval Q#? | ≥85% | Lab Final MRAD 143 3rd qtr  Lab Final MRAD 245 4th qtr | Lab Instructor |  | For the 2013 cohort we will use a new tool in the summer 2013 for MRAD 143 and for the fall 2013 with MRAD 244. |
| Students will demonstrate initiative. | CI Instructor eval Q#4 | ≥3.0 on a scale of 1-4 | 4th quarter (MRAD123)  8th quarter (MRAD 227) | Clinical Instructor | 3.67  3.83 | MRAD 123 fall 2011 3.67 out of 4.0  MRAD 227 Clinical Experience fall 2012 3.83 out of 4.0. Students demonstrated improvement in initiative during their last clinical course. |

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| **MRAD Program Effectiveness Measures** | | | | | |
| **Measure** | **Benchmark** | **Time Frame** | **Person/group Responsible** | **Actual Results** | **Analysis/Action Plan** |
| Program Completion Rate | ≥75%  (annual) | Fall – every two years | Program Director | 90% | In 2008 - 75%, 2009 – 88%, fall 10 - 94%, and fall 2012 – 90%. Average 87% over 4 years with 70 students. |
| Five-year average ARRT exam pass rate of not less than 75 percent at first attempt | ≥85% | Jan to Dec following graduation | Program Director | 100% | Pass rate for 2008, 2009, 2010, and 2012 – all 100%. Avg Scores: 2008 - 85.6, 2009 – 93, 2010 - 92.4., 2012 – 90.2 |
| Job placement rate 5 yr. average/ and yearly | ≥75%  Within 6 months  (5 yr. average) | 6 months after graduation | Program Director | 100% | Surveys from Clark’s Office of Planning and Effectiveness for Aug 2009 graduates had the job placement rate at 75%, The survey for December 2010 graduates had 100% job placement. A survey will go out in late May 2013 from the Allied Health Office for the Dec 2012 graduates with revisions based on our Advisory Committee’s suggestions. |
| Graduate satisfaction survey (felt well prepared to not adequately prepared) | ≥ 2.5 on a scale of 1 to 3 (83%) | Post-graduation | Program Director | 2.55 or 85% | August 09 graduates survey report from Planning and Effectiveness – 2.8 or 93% of respondents felt well prepared. For the fall 10 graduates the results had 2.55 or 85%. The range of responses included: well prepared, prepared, and not adequately prepared. Our next survey will be on a scale of 1 to 5. A survey will go out in late May 2013 for the Dec 2012 graduates. Revisions are based on the suggestions of the Advisory Committee. |
| **MRAD Program Effectiveness Measures** | | | | | |
| **Measure** | **Benchmark** | **Time Frame** | **Person/group Responsible** | **Actual Results** | **Analysis/Action Plan** |
| Employer satisfaction survey (overall preparation) | ≥ 3.75 on a scale of 1-5 or 75% | Normally within 6 months after graduation (our next survey will go out in late spring 2013) | Program Director | 4.2 or 84% | Feb 12 employer survey results of grads hired since 2010 had an average of 4.2 out of 5 in overall preparation as an entry level rad tech. The Advisory Committee felt that we needed more entry skills in communication and has recommended adding Interpersonal Communication (CMST& 210) for a recommended course in the Humanities requirement. This change was approved last year and the Advising worksheets will be updated this summer 2013 for the 2013-2014 catalog year. A survey will go out in June 2013 to the employers for the Dec 2012 graduates. We recently reviewed the survey method and questions during our Advisory meeting as part of our work plan. |