Assessment, Improvement, Measurement (AIM) Report: 12/19/2013

Plan Year: 2013-2014
Unit: Air Conditioning Technology
Coordinator(s): Edwin Taylor, Karman Wheeler, William Franklin
Reviewer: William Franklin

Objective or Outcome	Measure(s)		
	Measure Text	**Achievement Target**	**Assess Month**
SLO 2 - Graduates will be able to service HVAC equipment (with emphasis on heat pump schematics and troubleshooting).	Diagnose and repair selected faults on heat pump simulator	Online assessment (ESCO) with improved scores in schematics and troubleshooting. 90% of students will obtain a 75 or higher on a simulator.	November
SLO 3 - Student will be able to calculate heat load reduction and duct design (constant std. pressure method) that includes green energy.	Heat load calculation and duct design assessment project with 90% of students received 70/100 points on evaluation rubric. 25 points - Equipment List 25 points - Room to Room Load Heat 25 points - Block load 25 points - Duck Design	Heat load calculation Project - All of the students will score 75 points or higher.	April
SLO 1 Graduates will be able to construct various types of electrical circuits.	Evaluation of Project: Air Conditioning and Heating System Board Mock Up	90% of students will build a Board properly functioning on first attempt.	November

Plan Year: 2013-2014
Unit: Architectural Technology
Coordinator(s): Thomas Rogers, Karman Wheeler, William Franklin
Reviewer: William Franklin

Objective or Outcome	Measure(s)		
	Measure Text	**Achievement Target**	**Assess Month**
In ACH 110 □ Survey of the Architectural Profession □ through group discussion both in-class and electronically, students will be able to prepare brief analysis of concepts discussed in the textbook both in writing and verbally Applicable program competency: Analyze architecture	Faculty Evaluation/rubric	All students will score 75% or better on rubric that will judge their ability to understand the area of analysis, correctly format their analysis, and to actively participate in group discussions.	December

utilizing aesthetic principles and conceptual building organizations.			
In two sections of ACH 170 Theory and History of Architecture II - students will be able to recognize major historical influences present in selected examples of modern architecture. Applicable program competency: Apply architectural historical concepts and theories to building designs.	Faculty evaluation	All students will be able to recognize 75% of the historical influences.	May
In ACH 100 Construction Documents I - students will conduct research on emerging technologies related to residential construction and correctly incorporate that information onto construction drawings. Applicable program competencies: Produce construction documents for residential and commercial structures utilizing hand drafting and current computer-aided drafting technology Apply the results of research of a variety of information sources to building designs.	Faculty Evaluation/rubric	All students will score 75% or better on rubric that will judge their ability to find appropriate research topics, correctly relate the research to their construction drawings, and accurately convey the research using proper construction language and drafting techniques.	December

Plan Year: 2013-2014
Unit: Automotive Technology
Coordinator(s): Steven Johnson, Karman Wheeler, William Franklin
Reviewer: William Franklin

Objective or Outcome	Measure(s)		
	Measure Text	**Achievement Target**	**Assess Month**

SLO 1 - Students will be able to perform measurements on engine components.	Lab Performance Test	90% of the students will score 75% or higher on the Lab Performance Test of measurements on engine components.	April
SLO 2 - Students will be able to perform valve adjustment procedures on all internal types of combustion engines.	Lab performance test.	90% of the students will score 80% or higher on the lab performance test for valve adjustments.	April
SLO 3 - Students will be able to demonstrate correct procedures for vehicle alignment.	Performance Exam on performing vehicle alignment.	90% of the students will accurately align vehicles based on the Performance Exam.	April

Plan Year: 2013-2014
Unit: Biotechnology
Coordinator(s): Deborah Sullivan-Davis, Karman Wheeler, Keith Allen
Reviewer: Tammy Liles

Objective or Outcome	Measure(s)		
	Measure Text	**Achievement Target**	**Assess Month**
SLO 2 - PLO # 12 - Students will be able to perform documentation and data analysis, create documents, and communicate results.	Pre- and post-lab reports will be assessed for proper documentation, critical analysis of data, effective use of visuals (graphs, tables, etc), and clear interpretation of results.	90% of students will demonstrate effective documentaiton, data analysis, document creation to visually communicate results, by scoring 80% or better on pre- and post-lab reports. Instructors will use a grading rubric to assess compentency.	April
SLO 3 - PLO #14 - Students will be able to demonstrate proficiency in preparing, maintaining, and storing biological and/or chemical materials.	1. Solution preparation - By measuring conductivity in multiple solution preparations (reproducibility and conductivity evaluations, storage, and label completeness) with less than 30% error. 2. Storage - Rubric for storage and preparation	90% of students will be able to prepare solutions with less than 30% error as measured by soluiton conductivity, and then properly store and label the solutions as per rubric.	April
Students will be able to follow SOPs, protocols, and procedures.	Student laboratory notebooks will be assessed for inclusion and completeness of SOPs, protocols, and procedures, using established rubrics.	90% of students will score at least 80% on components relating to SOPs, protocols, and procedures as assessed by rubrics.	April

Plan Year: 2013-2014
Unit: Business, Marketing, and Management
Coordinator(s): David Magee, Karman Wheeler, Jenny Jones, Virginia Fairchild
Reviewer: Jenny Jones

	Measure(s)		

Objective or Outcome	Measure Text	Achievement Target	Assess Month
SLO 3 - Demonstrate an understanding of the functions of management - planning, organizing, leading, and controlling.	MGT 284 students will complete the post-test for Core Competencies in Business Management and Marketing.	MGT284 students taking the post-test will score at least 10 points (20%) higher on average than MGT160 students taking the pre-test. 70% of the students will respond to questions related to the functions of management with 60% accuracy.	April
	NOCTI exam	At least 50% of students taking the NOCTI Management exam should score at the national average or above.	April
SLO 1 - Demonstrate an understanding of the current financial instruments and financial institutions used in Real Estate transactions.	A mandatory quiz on real estate finance will be administered in during the Spring 2014 semester.	The achievement target is: 75% of students will score 70% or higher on the finance quiz.	April
SLO 2 - Demonstrate an understanding of successful promotion techniques to attract customers.	Using a rubric for evaluation, MKT 290 students will complete an assignment related to promotion techniques.	80% of students will score 70% or higher on the assignment.	April
	NOCTI exam	At least 50% of students taking the exam should score at the national average or above.	

Plan Year: 2013-2014
Unit: CADD
Coordinator(s): Jeffery Durham
Reviewer: William Franklin

Objective or Outcome	Measure(s)		
	Measure Text	Achievement Target	Assess Month
CAD/SLO 1 - (Program Learning Outcome 7) Students will be able to perform geometric construction.	Five point rubric on module or group of assignments. The students will be provided written instructions and will be evaluated on the ability to follow the instructions and will perform geometric constructions on a group of assignments (modules).	Students will be able to score at least a 3 on their module or group of assignments.	December
CAD/SLO 2 - (Program Learning Outcome 23) Students will demonstrate knowledge of geometry.	Related questions on their final evaluation. Students will be able to define and comprehend geometry based on this component within their final evaluation (exam).	Students will successfully complete 60% (3 out of 5) of the questions related to this component on their final evaluation.	December
CAD/SLO 3 (Program Learning Outcome 28) - Students will be able to create working drawings.	Drawing completion and evaluation of each drawing within the set of drawings. Students will be able to complete a set of plans that will be able to be used in the field (for construction projects).	75% accuracy of completing the drawings with the evaluation to include evaluation of each drawing within the set of drawings.	April

Plan Year: 2013-2014
Unit: Civil Engineering
Coordinator(s): Karman Wheeler, William Franklin, Jeffery Durham
Reviewer: William Franklin

Objective or Outcome	Measure(s)		
	Measure Text	**Achievement Target**	**Assess Month**
CET/SLO 1 - Students will be able to interpret land surveying data.	Collection of data in the field evaluated for creation of drawing within industry accepted error. The error is variable depending on the class of survey.	70% of the graduates will be able to create a drawing meeting industry specs as it they relate to acceptable error based on the industry's standardized classification survey.	December
CET/SLO 3 - Students will demonstrate knowledge of drainage areas.	Practical project exercise (final project in 2nd year class).	All students will demonstrate 75% accuracy on their final project exercise.	April
SLO 2 - Design a typical highway through planning surveying and mapping.	Capstone Project in CET 280. The project will include quizzes, participation, discussion, and written plan. A rubric that will be developed by the instructor will incorporate all of the various methods of measurement.	Once the rubric has been established, the acceptable levels for success will be identified by the faculty.	April

Plan Year: 2013-2014
Unit: Computer and Information Technology
Coordinator(s): Melanie Williamson, Dana Brown, Karman Wheeler, Deborah Holt
Reviewer: Deborah Holt

Objective or Outcome	Measure(s)		
	Measure Text	**Achievement Target**	**Assess Month**
Students will be able to plan an entire system in the capstone course	Evaluation of project(s) in capstone course	80% will score 80% or above on the final project to create an entire system. Note: in addition to the capstone project, KCTCS requires that our students take the NOCTI computer technology exam. Due to scheduling problems created by the testing center moving before finals week, not all students were able to complete this test. 10 students from the Spring 2013 semester were able to take the exam before the center closing. The results for this exam are: 60% of students scored higher than an 80% on this exam. The NOCTI exam has a passing score of 70%. All 10 of our students scored 70% or higher. The average score for our group is 82.5%, which is higher than the State (73.7%) and National (68.9%) scores.	May
Students will develop team building and communication skills	Capstone project - utilizing teamwork and communication within the project.	. Eighty-five percent will score 75% or higher on this component of the capstone project.	May
Students will utilize critical			

thinking skills to solve problems associated with planning an entire system.	Capstone project - utilizing critical thinking skills to solve problems associated with the project.	85% will score 75% or higher on their ability to problem solve in various scenarios from their field of study.	May

Plan Year: 2013-2014
Unit: Computerized Mfg. & Machining - Danville
Coordinator(s): Russell Chaney, Karman Wheeler, Paul Turner, William Franklin, Mark Welch
Reviewer: William Franklin

Objective or Outcome	Measure(s)		
	Measure Text	**Achievement Target**	**Assess Month**
SLO 1 - Students will be able to produce an exemplary product using a variety of machine tools with emphasis on their parts QC and tolerance specifications.	Evaluation using a rubric to show The method of measurement to identify if tolerances where met, was the use of Coordinate Measurement Machine. A program was written by instructor to measure the parts size and perpendularity. Each Tolerance amount out on size = deduction of 5 pts Each tolerance out on perpendicularity = deduction of 5 pts	All students will score at least 90% based on functionality, usability, and finish of the final product. The level of accuracy required was .0002, on all sizes and perpendicularity on width of block.	December
	The method of measurement to identify if tolerances where met, was the use of Coordinate Measurement Machine. A program was written by instructor to measure the parts size and perpendularity.	The level of accuracy required was .0002, on all sizes and perpendicularity on width of block.	
SLO-2 Students will be able to setup and operate drill press and sawing machines to perform operations and hold tolerances that are required by the curriculum and national standards set by NIMS.	Evaluation Form - Students parts will be measured using metrology equipment to verifty part print tolerances have been achieved.	All students will score at least a 85% on the evaluation form.	December
SLO 3 - Students will interpret machine tool working drawings, sketches, and part prints.	Students will be provided orthographic prints and find dimensions through questions and answers.	All students will have an average score 85% or higher on the assessment	April

Plan Year: 2013-2014
Unit: Computerized Mfg. & Machining - Lexington
Coordinator(s): Danny Roberts, Karman Wheeler, William Franklin, Paul Turner
Reviewer: Paul Turner

Objective or Outcome	Measure(s)		
	Measure Text	Achievement Target	Assess Month
SLO 1 - Students will be able to successfully setup and operate CNC and conventional mills and lathes (program outcomes #5 and #10).	To produce a Turner's cube that includes a small radii on cube edges using six different planes.Rubric to evaluate the turner cube	Students will score at least 90% on the rubric used to evaluate the cube.	October
SLO 2 - Using critical thinking skills the students will be able to incorporate blueprint readings, use of machine tools, understanding print specifications and selecting appropriate materials to developing a working model of an heat driven motor (on first attempt). This will incorporate program outcomes #5, #9 and #10.	Using a blueprint as rubric, and final clinical evaluation (Development of a sterling motor, incorporating blueprint readings, use of machine tools, understanding print specifications and selecting appropriate materials to developing a working model.)	90% of the students will achieve a 90% or higher in the designated areas on the evaluation form.	April
SLO 3 - Students will be able to demonstrate blueprint reading, use of esprit, and the operation of CNC machines and lathes.	Given a 3D project (turtle car), students will utilize a blue print and use of esprit to develop a 3D model using CNC machines (CNC mill and lathe). A blue print rubric will be used to evaluate the project.	90% of students successfully meeting blueprint tolerance for the car.	April

Plan Year: 2013-2014
Unit: Construction Technology
Coordinator(s): Claude Gross
Reviewer: William Franklin

Objective or Outcome	Measure(s)		
	Measure Text	Achievement Target	Assess Month
Students will be able to demonstrate an understanding of safe practices as they relate to OSHA regulations for scaffold safety.	OSHA 10 certification and class exam on scaffold safety and safety procedures for the use of guard rails.	80% of graduates will receive certification and successful completion of scaffold safety exam.	December
Students will demonstrate critical thinking and	Rubric to assess students' knowledge and problem solving skills in developing a roof plan.		

problem solving skills within construction technology.	The drawing of the roof plan will include measures with roof pitches that allows an offset position.	85% of the students will receive a 3 or higher on the 5 point rubric.	April
Students will utilize and maintain commonly used hand and power tools.	1. Instructor's visual evaluation of the selection of tools for various projects as noted on the task sheet. 2. Power tools quiz.	1. All students will select appropriate tools and safety utilize them in the manufacturer's recommended use. 2. All students will score at least 90% on the power tools quiz.	April

Plan Year: 2013-2014
Unit: Cosmetology/Esthetician
Coordinator(s): Melissa Anderson, Karman Wheeler, William Franklin
Reviewer: William Franklin

Objective or Outcome	Measure(s)		
	Measure Text	**Achievement Target**	**Assess Month**
SLO 1 - Students will be able to satisfactorily perform hair cut based on industry entry level standards with emphasis on blending perimeter growth.	Mock board exam based on criteria that correspond to sate board hair cut exam.	90% of students will be able to pass the hair cut section of the mock board exam with a passing score of 70%.	May
Demonstrate the application of the technique of nail services both natural and artificial.	Use of checksheets	Students will earn a minimum score of 70% proficiency on checksheets for natural and artificial nail applications	December
SLO - Students will be able to incorporate advanced facial procedural techniques that are used in day spas.	Given a model, a checklist will be utilized to evaluate techniques.	85% will have met all of the criteria of the given checklist.	April

Plan Year: 2013-2014
Unit: Criminal Justice
Coordinator(s): Michael Littrell, Karman Wheeler, Vicki Wilson
Reviewer: Vicki Wilson

Objective or Outcome	Measure(s)		
	Measure Text	**Achievement Target**	**Assess Month**
Students will demonstrate an awareness of ethical considerations in making value decisions.	A rubric will be used to evaluate student responses to 5 scenario based papers.	Students will average 20 of 25 points on the scenarios.	December

Students will demonstrate an understanding of the three levels of the criminal justice system and how they are interconnected.	An essay component of last exam asking students to describe how the three levels of the criminal justice system work together to achieve its goals.	90% of the students will score 80% or above on this essay.	May
Students will utilize critical thinking skills to make connections in learning across disciplines.	Students will write two critical thinking papers that require an analysis of multiple views on relevant issues.	70% of students will score 20 out of 25 on the rubric evaluation.	May

Plan Year: 2013-2014
Unit: Dental Assisting
Coordinator(s): Olivia Ritchie, Martin Baxter, Karman Wheeler
Reviewer: Martin Baxter

Objective or Outcome	Measure(s)		
	Measure Text	**Achievement Target**	**Assess Month**
Upon completion of the Dental Assisting Program students will be prepared to effectively utilize software for charting, patient information and radiology	Software utilization for patient charting, patient information and radiology using a rubric as the evaluation instrument. (Note - rubric with target level of achievement needs to be developed). This will be a clinical assignment in the spring semester in DAH 235.	Clinical Checklist/Rubric	April
SLO 2 - Graduates will be able to successfully fabricate temporaries.	Using modified procedure workbook assessment (created by the instructor) on the fabrication of temporaries, with a total of 18 points possible for single unit and 44 points possible for the bridge.	Students will score at least 16 on the single unit and above 40 on the bridge.	April
SLO 1 - Students will be able to make alginate impressions (pouring,and trimming study models).	Clinical Externship evaluation using a 0-2 scale.	Based on the externship, all students will score 1.5 or higher based on the rubric rating scale for student clinical externships (0-2).	April
SLO 3 - Students will be able to fabricate bleaching trays.	Clinical Externship Evaluation using a 0-2 rubric.	Based on the externship, all students will score 1.5 or higher based on the rubric rating scale for student clinical externships (0-2).	April

Plan Year: 2013-2014
Unit: Dental Hygiene
Coordinator(s): Janella Spencer, Karman Wheeler, Martin Baxter
Reviewer: Martin Baxter

Objective or Outcome	Measure(s)		

	Measure Text	Achievement Target	Assess Month
SLO 1 First year students will successfully utilize dental hygiene instruments.	Instructors evaluation using comprehensive instrument skills check off lists.	All students must demonstrate acceptable usage of all instruments.	December
SLO 2 - Graduates will be able to scale one quad efficiently and effectively.	Timed Scaling Test that measures the amount of remaining calculus and the timeliness of the procedure. The Test is given with each patient. By November 15, the graduates will be able to pass the Timed Scaling Test, demonstrating acceptable and efficient practices.	All students were able to pass the timed scaling test by November 15, 2013.	May
SLO 3 - Graduates will be able to apply critical thinking skills appropriate in developing treatment plans for individual patients.	Students are awarded up to 20 points on each individual treatment plan. By the last semester, all of the students will be able to develop treatment plans, scoring 15 points or higher.	All students will score 15 points or higher.	May

Plan Year: 2013-2014
Unit: Dental Lab
Coordinator(s): Robin Gornto, Karman Wheeler, Martin Baxter
Reviewer: Martin Baxter

Objective or Outcome	Measure(s)		
	Measure Text	Achievement Target	Assess Month
SLO 1 - Students will be able to construct a denture.	Capstone Project in fourth semester - The evaluation of the capstone project to construct a denture will be evaluated based on the five-point clinical acceptability scale. Eighty-five percent of the students will receive at least a 3 clinical acceptability score (equitable to a grade of 85%).	Eighty-five percent of the students will receive at least a 3 clinical acceptability score (equitable to a grade of 85%).	April
SLO 3 - Students will fabricate a variety of complex dental prostheses with new type of porcelain.	Students will be assessed on their ability to fabricate two metal ceramic restorations one of which will have an all porcelain labial margin. Using the five-point clinical acceptability scale. Eight-five percent of the students will receive a score of 3 or higher (equitable to a grade of 85%)	Two metal ceramic restorations, one with a porcelain labial margin, were evaluated based on levels of clinical acceptability. Eight-five percent of the students will receive a score of 3 or higher (equitable to a grade of 85%)	April
SLO 2 - Students will be able to fabric orthodontic appliances.	Final Project - Maxillary hawley with a pontic will be used for the assessment using the five-point clinical acceptability scale. Eighty-five percent of the students will receive a score of 3 or higher (equitable to grade of 85%)	A maxillary hawley with a pontic will be evaluated based on levels of clinical acceptability with 85% of the students scoring a 3 or higher (equitable to a grade of 85%)	December

Plan Year: 2013-2014
Unit: Education
Coordinator(s): Clovis Perry Jr, Karman Wheeler, Jenny Jones
Reviewer: Jenny Jones

Objective or Outcome	Measure(s)		
	Measure Text	**Achievement Target**	**Assess Month**
Participate with administrators, consultants, and/or other professionals in designing and implementing comprehensive professional development activities for paraprofessionals.	Number of Professional Development opportunities presented to AAS Education students.	Design and implement at least one Education Student Professional Development opportunity with a professional and/or community partner.	April
Demonstrate a basic knowledge of Kentucky□s educational goals for all students.	Summative assessment of Kentucky Teaching Standards including the Kentucky Common Core Standards.	90% of all Education students will score 80% or above on a Summative Assessment demonstrating knowledge of the Kentucky Teaching Standards including the Kentucky Common Core Standards.	April
Perform assigned responsibilities in a manner consistent with established professional and ethical guidelines.	Host Teacher Survey Results	90% of all Education students will receive a 3 (Average) or higher on the Field Observation Host Teacher's evaluation question stated as "The student conducted himself/herself in a professional manner".	April

Plan Year: 2013-2014
Unit: Electrical Technology
Coordinator(s): Bobby Royalty Jr, Karman Wheeler, Paul Turner
Reviewer: Paul Turner

Objective or Outcome	Measure(s)		
	Measure Text	**Achievement Target**	**Assess Month**
Students will be able to evaluate optimal solar installation sites, and install simulated solar photovoltaic systems,both stand alone storage battery, and grid tie solar systems .	Use a lab rubric to assess students' ability to choose solar photovoltaic system site locations, including azimuth, inclination, and latitude; for optimum system performance.	All students performing a shading and solar eradiation study , using a solar (true south) evaluation tool will successfully evaluate various locations for solar arrays at a 90% success rate.	April
	Comprehensive evaluation of simulator trainer project produced by students using a lab evaluation. Graded lab worksheet, and performance rubric used by the instructor.	The acceptable level of lab performance must be 90% or the lab will be repeated until 100% is achieved. To be performed and evaluated in the last part of April 2014 Spring semester.	
SLO 1 - Students will demonstrate the competencies and ability to wire a workshop	Project Assessment - Students will demonstrate the competencies and ability to wire a workshop	This year's assessment of the project will focus on their organizational skills and improved efficiency in addition to developing a floor plan, take off (Materials list), install electrical metallic tubing and pull in associating wiring, high intensity	

including organizational skills and improved efficiency.	including organizational skills and improved efficiency.	lighting system, and overhead door motor system). A ten point rubric will be used with students scoring at least 80% on their project.
SLO 3 (New) - Students will be able to convert relay logic to ladder logic, and programming PLCs.	Lab Assessments - from simple elementary: two line control, Low difficulty: three line control, moderate difficulty: AND,OR, NOR, XOR control; then students will program PLCs using three assessed labs with narratives describing conditions of control: moderate to high difficulty: timer, counter, program control. High difficulty: comparison, move, math functions, Complex advanced: shift registers, sequential output, integer files , data manipulation.	The first three assessed labs will be converting relay logic to ladder logic, ranging from simple elementary, low difficulty, and moderate difficulty. Students will program at an accuracy rate of 90% without supervision. The second group of labs using narritives describing conditions of control, ranging from moderate to high difficulty, high difficulty, and complex advanced control, will be programmed by students at a rate of 50% accuracy with limited supervision.

Plan Year: 2013-2014
Unit: Engineering and Electronics Technology
Coordinator(s): Kevin Dunn, Karman Wheeler, Paul Turner
Reviewer: Paul Turner

Objective or Outcome	Measure(s)		
	Measure Text	**Achievement Target**	**Assess Month**
SLO 1 - Students will demonstrate the design, construction, and troubleshooting of simple circuits using combinatorial and sequential logic. Calculating, designing, drawing, simulating, and creating a design portfolio of a BCD to 7-segment decoder circuit in the Digital course, will complete student demonstration.	Project - The project will be graded on a 100-point evaluation instrument based on how well the circuit is designed, drawn as a schematic, built as a simulated circuit, and described in a written portfolio. This goal will be met when 90% of students score a 80 or higher on the BCD to 7-segment decoder circuit rubric.	90% of students will score a 80% or higher on the project.	May
Students will demonstrate an understanding of transistor operations in Solid State Circuits (Task 21).	NOCTI scores for task 21.	This goal will be met when the score for task 21 has increased 10%. The current score of 36.0 should increase to 39.6 to be MET.	May
Students will be able to correctly utilize a reference manual in the area of Digital Theory. (Task 39)	NOCTI score on task 39	This goal will be met when the score for task 39 has increased 10%. The current score of 33.3 should increase to 36.6 to be MET.	May

Plan Year: 2013-2014
Unit: Environmental Technology
Coordinator(s): Jean Watts, Karman Wheeler
Reviewer: Tammy Liles

Objective or Outcome	Measure(s)		
	Measure Text	**Achievement Target**	**Assess Month**
SLO 3 - The graduates will be able to process and manipulate scientific data.	Students are assessed on their ability to create a file and process the data to include seven different statistical measures and graphs.	A 75% or higher is expected of all graduates on the graphing and statistics methods portion of the final examination.	May
SLO 2 - Graduates will demonstrate information literacy by collection and evaluation of scientific literature ("science roundtable discussions")	Students select an article from an appropriate topic (approved by the faculty), summarizing and presenting their findings to the class. A rubric is used to evaluate the presentation and summary.	All students will score 80% or better.	May
SLO 1 - Graduates will be able to keep a field log as part of the sampling process. the field log is an important component (legal document) associated with the sample process. Focus on this year on consistent and accurate entry of standard information.	Sampling is going to be based on observation and the utilization of a 40 point rubric.	Class average will be 34 points (85%) or better	May

Plan Year: 2013-2014
Unit: Equine Studies
Coordinator(s): Remy Bellocq, Dixie Hayes, Karman Wheeler
Reviewer: Mark Manuel

Objective or Outcome	Measure(s)		
	Measure Text	**Achievement Target**	**Assess Month**
SLO 1 - Trainer Option Utilizing critical thinking skills, students will be able to read, assess, and utilize the Condition Book in determining appropriate race, conditions, and eligibility	Mock situation - Mock situation using a race track conditions book for weight allowance and placement of horses.	All students will score 80% or higher on the mock situations.	December

of race horses.			
SLO 2 - Students will be able to identify various body parts as they demonstrate principles of care for race horses in a race barn training environment, applying industry accepted standards and techniques while providing daily care for 1-2 race horses.	Barn Competency Evaluation Rubric to assess care of horses as well as identification of body parts.	Barn Competency Evaluation Rubric - all students will score at least 90% of the points allotted for the Barn Competency Evaluation (405 out of 450).	December
Second year students will be able to successfully gallop a racehorse.	Clock - 2 minute lick (Note in Spring 2014, only two students will be assessed; however the next cohort of students will be assessed in fall 2014).	95% of the students will be able to gallop a racehorse a mile in 2 minutes plus or minus 2 seconds.	March

Plan Year: 2013-2014
Unit: Fire Science
Coordinator(s): William Franklin, Karman Wheeler, Ashley McWaters
Reviewer: Bonnie Nicholson

Objective or Outcome	Measure(s)		
	Measure Text	**Achievement Target**	**Assess Month**
SLO 1 - Graduates will be proficient at entry level EMS skills for treating trauma patients with emphasis on obstetrics (e.g. pre-delivery, delivery, and post-delivery skills and knowledge)	KBEMS- Trauma Skill assessment	Skill set checklist will be used at the end of the semester. 80% percent of the students will successfully perform skill set on first attempt.	May
SLO 2 - Students will demonstrate preparedness in analyzing and taking appropriate action in aircraft rescue.	While operating as a member of a team, the candidate in appropriate PPE shall extinguish aircraft fires and overhaul using hand lines and appropriate extinguishing agents.	75% of the students will score 70% or higher on skills evaluation.	December
SLO 3- Given a hose line, and wearing appropriate PPE, the firefighter candidate shall perform emergency decontamination.	Students will be able to don appropriate PPE and setup decontamination at a simulated Hazardous Materials incident.	80% of the tested students will be able to complete the skill within 15 minutes.	December

Plan Year: 2013-2014

Unit: Health Information Technology
Coordinator(s): Sharon Breeding, Karman Wheeler, Jenny Jones
Reviewer: Jenny Jones

Objective or Outcome	Measure(s)		
	Measure Text	**Achievement Target**	**Assess Month**
Student will explore the various career choices in the Health Information Technology program.	As the students begin to explore the various career paths in Health Information Technology, they will complete a research paper of 2 pages. This paper will explore the careers. Using a rubic of 1-5 measuring the report format, accuracy, and pertinent information for a career of choice.	Students will score at least a 4 on their report.	December
Students will be able to conduct new employee orientations.	Students will complete a new hire orientation packet including information for new employees. The packet will include - policies and procedures, safety, and testing.	The packet will contact documentation about the policies and procedures, safety, testing and other factors. A rubic will be used to document the sectionns.	May
Going through an accreditation is a very tedious process. Students should be prepared to help facilitate healthcare organizations to monitor the facility to ensure they are Joint Commission ready at all times. Students should be able to list items that need to be included in an accredited survey.	Students will be able to pass an objective/essay type exam on the Joint Commission accreditation process	100% of students will pass the exam with at least 80%.	December

Plan Year: 2013-2014
Unit: Human Services/Social Work
Coordinator(s): Virginia Stiles, Vicki Wilson, Karman Wheeler
Reviewer: Vicki Wilson

Objective or Outcome	Measure(s)		
	Measure Text	**Achievement Target**	**Assess Month**
SLO 3 - The student will demonstrate that they are able to establish a helping relationship with a client, interview a client, maintain confidentiality and ethical practices and express in writing through the daily log their understanding of their	In 2013-14 the students will be evaluated at their practicum through a practicum evaluation interview with the field placement supervisor assessing their ability to establish a	90% of the students will successfully meet this evaluation component of their practicum.	December

personal strengths and weaknesses in the practicum experience.	relationship with clients.		
SLO 2 - Demonstrate knowledge of the values used by professionals in the human services field and an understanding of why such values are important including an understanding of the wide range of values expressed by persons of various ethnic and cultural groups.	In 2013-14 the students will be evaluated at their practicum through a practicum evaluation interview with the field placement supervisor assessing their ability to make value judgments.	Practicum evaluation will be used to demonstrate the students' ability to integrating values into their client relationships with 90% of the students successfully meeting this component of their practicum.	
Students will explore their personal values and biases in relation to professional social work/human services values to understand implications for practice and minimize influence in work with diverse populations.	Measurement will be conducted by a 5 page paper where each student lists their own values values, compares them to those listed in the Social Work and Human Services Code of Values, develops a scenario describing a situation where their own value system may be in conflict with those of human and social services and how they would resolve the conflict.	90% of the students completing the values assignments will achieve a score higher than 80 points out of 100.	December
Students will gain an understanding of social welfare, not as wielders, but as subjects/victims/recipients/clients and will gain the perspective of women, nonwhite people, and other groups oppressed by social institutions, and to understand the place of the labor force and working people within the social welfare institution.	There will be specific questions on both the midterm and the final that will measure the student's comprehension of social welfare, with special emphasis on oppressed groups.	At least 80% of students taking the midterm and final will have answered the specified questions correctly.	December

Plan Year: 2013-2014
Unit: Industrial Maintenance
Coordinator(s): Paul Turner, Jarvis Long, Karman Wheeler, William Cheser
Reviewer: Paul Turner

Objective or Outcome	Measure(s)		
	Measure Text	**Achievement Target**	**Assess Month**
SLO 1 - Students will be able to troubleshoot and measure 3-phase power circuits.	Students success will be evaluated by using components of the end of semester lab final related to troubleshooting and measuring three-phase power circuits (examining the students logical approach).	85% of students will successfully complete this portion of the lab final.	May

SLO 2 - Students will be able to perform precision alignment on mechanical drive components using dial indicators and LASER equipment.	Faculty observations on precision alignment of students using a rubric.	85% of students will perform precision alignment on mechanical drive components using dial indicators and LASER equipment through faculty observation (rubric).	May
SLO 3 - Students will be able to install, maintain, and troubleshoot fluid power systems with emphasis on pressure release valves.	Observation skills final - One station project: Design, install, successful operation of fluid power system. Rubric will be used for the assessment of the three components.	Part 1 - Written Exam related to designing and building fluid power systems. All of the students will score at least 80% on questions related to designing and building the fluid power system. Part 2 - 50% of students will be able to design & build a functioning system on their first attempt. Part 3 -85% of students will be able to troubleshoot their systems and make them work.	May

Plan Year: 2013-2014
Unit: Information Management and Design
Coordinator(s): Deborah Holt, Timothy Birch, Karman Wheeler, Andrew Hunt
Reviewer: Deborah Holt

Objective or Outcome	**Measure(s)**		
	Measure Text	**Achievement Target**	**Assess Month**
SLO 1 - Design a web page using various software and technology with emphasis on creativity and organization.	Evaluate portfolio using a rubric.	80% of the students will receive a 2.0 or higher in creativity and organization.	May
SLO 2 - Students will create publications utilizing various software/technology (Adobe Creative Suite, Photoshop and Illustrators, etc.) and incorporating new technology/coursework (SEO - Search Engine Optomization and CMSoftware-Content Management Software).	Evaluation of portfolio using a rubric based on the following characteristics: 1. Follow basic design concepts 2. Rules of typography 3. Visual Representation 4. Grammar	80% of the students earning a 2.0 or higher on each of the four components within the rubrics.	May
SLO 3 - Students will be able to utilize strategies for entering the workforce including preparation of a professional portfolio.	Strategies assessed by evaluating portfolios developed in IMD 270 Professional Practices.	80% will receive a 2.0 or higher on their portfolio evaluation.	May

Plan Year: 2013-2014
Unit: Interdisciplinary Early Childhood Education
Coordinator(s): Maria Rutherford, Karman Wheeler, Jenny Jones
Reviewer: Jenny Jones

Objective or Outcome	Measure(s)		
	Measure Text	Achievement Target	Assess Month
SLO 1 - Students will be able to develop comprehensive lesson plans that meet industry standards with emphasis on Lesson Plan Assessment.	Rubric assessment will focus on the 200 level classes.	Using a rubric with 25 points possible, lesson plans evaluated in IECE 291 with an acceptable score of at least 21 in IECE 291.	May
SL0 2: Students will demonstrate the ability to employ effective classroom management skills.	1, Clinical Observation using KTIPP IECE Performance Form with a rating rubric in IEC 291. 2. Portfolio Rubric - components of portfolio that related to effective classroom management.	1. 90% of the students graduating will be rated competent based on the rubric. 2. 90% of the students graduating will be rated competent on effective classroom management component of portfolio rubric	May
Students will demonstrate how they empower families and foster community relationships.	Rubric of related assignments in IEC 210 (associated with the ability to empower families and foster community relationships.	To be determined - JH	May

Plan Year: 2013-2014
Unit: Medical Assisting & Phlebotomy
Coordinator(s): Karman Wheeler, Martin Baxter, Kimberley Blair
Reviewer: Martin Baxter

Objective or Outcome	Measure(s)		
	Measure Text	Achievement Target	Assess Month
SLO 3 - Graduates will be able to recognize administration routes and sites, and administer medications prescribed by physicians.	1. Skill Rubric 2. Components on written exam related to administration routes and sites. .	1. Skill Rubric - All students will score score 100% on medication administration rubric. 2. Written exam/ 75% or higher on questions related to administration routes and sites.	April
SLO 2 - Students will perform CMA clinical task, including fundamental procedures (e.g. sterilization techniques, quality control, dosage calculations, and practice standard precautions), specimen collection, diagnostic testing and patient care.	1. CMA (AAMA) National Exam 2. practicum evaluation on clinical components.	1. CMA - 90% of students will score a passing score on the clinical portion. 2. 3 or higher on a 1-5 scale. Practicum evaluation components related to fundamental procedures identified in this outcome.	April

SLO 1 - Graduates will be able to demonstrate administrative skills necessary for entry level medical assistants.	Skill Rubric on administrative procedures administered during fall 2012 Written examination administered related to administrative procedures. (focusing on front office and Electronic Medical Records)	Ninety percent of graduates will be able to demonstrate acceptable levels of entry level skills based on the administrative portion of the CMA (AAMA) National Certification Exam. the target level of achievement is 10% over the 2011-2012 score. 90% of graduates will achieve a target score of. (to be determined)	April

Plan Year: 2013-2014
Unit: Medical Information Technology
Coordinator(s): Sharon Breeding, Karman Wheeler, Jenny Jones
Reviewer: Jenny Jones

Objective or Outcome	Measure(s)		
	Measure Text	**Achievement Target**	**Assess Month**
For school year of 2013-2014, MIT students will develop a resume highlighting skills achieved in their training at BCTC.	Two classes (MIT 295) of approximately 26 students. Create a workable resume that highlighting skills achieved in their training at BCTC. A rubic will be used to evaluate format, accuracy and key words.	Ninety five percent of the students will produce a resume of an average of 4. or higher on a 1-5 scale rubric..	November
Coding students to complete the certified testing examine with a 70% passing score.	Students will take the national exam.	80% of students that complete the national coding exam will pass with a 70%.	May
MIT students will take the NOCTI exam upon the completion of the MIT 295 class.	The students will take the NOCTI exam relating to problem solving and critical thinking..	95% of the student will score at the national level or above.	December
Preparation of medical records and forms, incorporating proofreading techniques.	Continue stressing the components of transcription in MIT 106 (Medical Transcription). We will evaluate the pathology reports at end of the semester.	95% of the students will receive an 80% or higher on the final pathology document.	December

Plan Year: 2013-2014
Unit: Nuclear Medicine
Coordinator(s): Charles Coulston, Karman Wheeler, Martin Baxter
Reviewer: Martin Baxter

Objective or Outcome	Measure(s)		
	Measure Text	**Achievement Target**	**Assess Month**
SLO 3 - Students will use critical thinking/problem solving skills to adapt protocol	Clinical Rotation Evaluation Form - 90% of students will score a two or higher (1-3 scale) on	All students will score a two or higher (1-3 scale) on the evaluation form in this specific area.	

of procedures to meet the patients study needs.	the evaluation form in this specific area.		
Students will be able to prepare, dispense and administer routine radiopharmaceuticals under the supervision of appropriate personnel. (Program technical competency)	Student clinical evaluation	3 of 3 students will score 3 out of 5 (or higher) to indicate that they have adequately met the expectation of the clinical faculty for this skill.	April
Students will demonstrate proper use and care of nuclear medicine instrumentation and ancillary equipment.	Student clinical evaluation.	3 of 3 students will score 3 or higher on a scale of 5 to indicate that the student has adequetly met expectations of the clinical faculty for this clinical skill.	April

Plan Year: 2013-2014
Unit: Office Systems Technology
Coordinator(s): Jamie Clark, Karman Wheeler, Jenny Jones
Reviewer: Jenny Jones

Objective or Outcome	Measure(s)		
	Measure Text	**Achievement Target**	**Assess Month**
SLO 1 - Graduates will be able to format word documents.	Project that includes a final document produced in Word. In OST 240 - Students completed project. The instructors will use a rubric to evaluate. 1 Poor 2 Passing 3 Average 4 Excellent Items to be evaluated: 1. Formatting on word documents	Students will score an average of 3.5 using the four point rubric.	December
SLO 2 - Students will be able to create formulas in excel to effectively solve problems.	In OST 240 - Students will be given projects to evaluate their ability to create the correct formula for problems encountered.	Students will be measured on a four point rubric, evaluating the projects on the correct formulas utilized to solve the problems. Average score will be 3.5	December
SLO 3 - Students will be able to apply critical thinking skills to perform search strategies and evaluate information using the internet and the world wide web (Technical Core Competency # 3)	Faculty evaluation of capstone project in OST 220 using a 50 point rubric.	All students will score 40 out of 50 points.	December

Plan Year: 2013-2014
Unit: Practical Nursing
Coordinator(s): Evelyn Grigsby, Maureen Topley, Karman Wheeler, Karen Mayo, Susan Hayes

Reviewer: Susan Hayes

Objective or Outcome	Measure(s)		
	Measure Text	**Achievement Target**	**Assess Month**
SLO 2 - The PN graduate will demonstrate critical thinking skills by being able to make reasonable clinical judgments through the use of the nursing process.	Utilize the critical thinking components of the PN Final Clinical Evaluation Form.	80% of PN students will achieve a satisfactory rating on the critical thinking components of the PN Final Clinical Evaluation Form.	
SLO 3 - The PN graduate will be able to practice safe administration of medications, including at the clinical sites.	Final Clinical Evaluation Form	98% of students will practice safe administration of medications based on the Implementation section of the Final Clinical Evaluation Form.	
SLO 1 - Design a plan of care to meet patients needs.	Evaluation at practicum	90% of students completing practicum will have developed a satisfactory care plan, evaluated by clinical instructor	
Students will demonstrate an understanding of professional attitudes and behaviors associated with the role of practical nurse.	Assessment of student professional behaviors on clinical evaluations and preceptor evaluations. Responses of advisory committee when questioned regarding graduate professional behaviors demonstrated in the hiring process and beginning months functioning in the role of new hire.	90 % of students will receive satisfactory clinical/preceptor evaluations for professional behaviors. Advisory committee members will report improvement in profession behaviors and attire during the interview process and initial "new hire" work period.	

Plan Year: 2013-2014
Unit: Radiography
Coordinator(s): Robyn Potter, Sarajane Doty, Karman Wheeler, Martin Baxter
Reviewer: Martin Baxter

Objective or Outcome	Measure(s)		
	Measure Text	**Achievement Target**	**Assess Month**
SLO- 1 Students will be able to evaluate and critique images.	The section of the ARRT exam related to Image Production and Evaluation.	ARRT over 7.9% in this section.	July
Exercise independent judgment and discretion in the technical performance of medical imaging procedures. (program outcome	Clinical competency evaulation area related to the judgement, discretion and technical performance.	Students will achieve 95% on the competency evaluation in this area.	May

number 8)			
Accurately demonstrate anatomical structures on imaging receptors.	Clinical competencies evaluation related to image critque.	Students will achieve 95% in that area of the competency evaluation.	May

Plan Year: 2013-2014
Unit: Registered Nursing
Coordinator(s): Karen Mayo, Lise Roemmele, Dixie Webb, Karman Wheeler, Susan Hayes
Reviewer: Karen Mayo

Objective or Outcome	Measure(s)		
	Measure Text	**Achievement Target**	**Assess Month**
SLO 1 -Students will be able to prioritize care. (#12 Establish priorities and organize nursing care in a timely and cost effective manner for a group of clients.)	HESI exit exam category Manager of Care and Collaboration/Managing Care Clinical check-off demonstration of care of a group in the fourth semester Student self evaluation of manager of care category Preceptor evaluation of practicum student ability to prioritize client care	HESI Exit exam student will obtain an 850 on manager of care category and collaboration/managing care. 100% of students will pass the care of a group clinical competency on the first attempt. Graduate Exit Survey - 90% of students will self evaluate meeting the objective of managing care. Preceptor evaluation survey of BCTC practicum students: 90% of respondants will state that BCTC ADN students demonstrate an ability to prioritize care.	April
SLO 2 - Students will be able to think critically by demonstrating problem solving skills, analyzing interpreting creative expressions, resources and/or other data, integrating knowledge, and using logical thinking to draw conclusions (with emphasis on math fundamentals)	HESI exam Critical Thinking score, Nursing Process score, Fundamental Math score. Preceptor evaluation of practicum students demonstrating problem solving skills and clinical decision making Student self-evaluation of clinical decision making in the fourth semester	HESI Critical thinking, nursing process and math scores will be 850 or above. 100% of students will pass nursing medication exam in each nursing course. Preceptor evaluation of practicum students - staff will rate students a minimum of 3 on a scale of 4 for demonstrating problem solving skills and clinical decision making. Graduate exit survey - exiting students will state that they met the clinical decision making objective.	April
SLO 3 - Graduates will synthesize principles of therapeutic communication to effectively relate with individuals, families, groups and/or colleagues of diverse sociocultural backgrounds in various health-care settings	HESI exit exam therapeutic communication score, clinical competency skill check-off for therapeutic communication with clients with psychological interferences. Process Recordings paper Graduate Exit Survey Preceptor Evaluation of practicum students	Students will score a 850 on therapeutic communication category 100% of students will pass therapeutic communication clinical competency. 100% of students will satisfactorily complete a process recording on a client with a mental health alteration with detailed examples of therapuetic and non-therapuetic communication techniques. 90% of students will state on the Graduate Exit Survey that they met the therapeutic communication learning objective Preceptor will score practicum students a 3 on a scale of 4 for ability to demonstrate therapeutic communication techniques.	April
SLO 4 - Demonstrate clinical competence when	HESI Exit Exam Therapeutic nursing interventions, Patient-centered care (Safety and Quality). Fourth semester students will demonstrate competency on	HESI exit exam - students will obtain a score of 850 on therapeutic nursing interventions category and patient-centered care category. 100% of students will satisfactory check off on the	April

providing care (#6)	all 4 selected nursing skills Preceptor Evaluation of practicum students - performance of fourth semester clinical skills	competency skill evaluation Preceptors will evaluate practicum students a score of 3 on a scale of 4 for performance of clinical skills.	

Plan Year: 2013-2014
Unit: Respiratory
Coordinator(s): James Matchuny, Martin Baxter, Karman Wheeler
Reviewer: Martin Baxter

Objective or Outcome	Measure(s)		
	Measure Text	**Achievement Target**	**Assess Month**
SLO1-Graduates will be able to "Remove Bronchopulmonary Secretions" (3C) and "Initiate, Conduct Pulmonary Rehab and Home Care" (3K)	CRT and WRRT graduate exam.	At or above the national avg. on categories □ 3C. Remove Bronchopulmonary Secretions and 3K □Initiate, Conduct Pulmonary Rehab and Home Care□.	June
SLO2- Graduates will be able to "Collect and Evaluate Additional Pertinent Clinical Information" (1B) and "Recommend procedures to obtain additional data" (1C)	WRRT exam.	At or above the national average on categories 1B and 1C.	June
SLO3- Graduates will be able to "Perform quality control procedures" (2C).	NBRC exams.	At or above the national average.	June
SLO4- □ 3I □Initiate, Conduct, or Modify Respiratory Care Techniques in an Emergency Setting□	CRT and WRRT exam results.	At or above the national average	June
SLO5- □ 3B □Maintain a Patent Airway Including the Care of Artificial Airways□	CRT and WRRT exam results	At or above the national avg.	June
SLO6- Category 3A. □Maintain Records and Communicate Information□	CRT and WRRT exam results.	At or above the national average	June

Plan Year: 2013-2014
Unit: Surgical Technology
Coordinator(s): Kevin Craycraft, Martin Baxter, Karman Wheeler

Reviewer: Martin Baxter

Objective or Outcome	Measure(s)		
	Measure Text	**Achievement Target**	**Assess Month**
SLO 1 - Students will be able to demonstrate safe, non-sterile pre-op environment.	This assessment will be based on the first five tasks on the Mock Surgery Competency Evaluation on pre-op competencies in the student laboratory. (This measure was modified slightly from last year based on the Mock Surgery Competency Evaluation rubric. After evaluating past data the points have been reallocated to emphasize areas of importance.)	Eighty-five percent of the students will score 17 out of 22 points on the first five categories on the Mock Surgery Competency Evaluation rubric.	November
SLO 2 - Students will be able to gown, glove, set-up the back table and mayo stand correctly for basic surgical procedures (e.g. breast biopsy).	Mock Surgery Competency Evaluation regarding the student's ability to gown, glove, set-up the back table and mayo stand correctly and quickly for basic surgical procedures (e.g. breast biopsy). (This measure was modified slightly from last year based on the Mock Surgery Competency Evaluation rubric. After evaluating past data the points have been reallocated to emphasize areas of importance.)	1. 85% of the students will get 14 out of 19 on categories 5-8 on the Mock Surgery Evaluation tool. 2. 70% of the students will be able to gown, glove, set-up the back table and mayo stand within 15 minutes for a basic surgical procedures (e.g. breast biopsy).	November
SLO 3 - Students will be able to identify surgical instruments used in the Operating Room.	The surgical instruments will be displayed on the classroom desk at 10 separate stations, of which the students will rotate from station to station with approximately 2 minutes to identify the 10 instruments at each station.	85% of the students will be able to identify 90% of the instruments in the lab setting component of the final hands-on instrument examination.	November

Plan Year: 2013-2014
Unit: Welding
Coordinator(s): Karman Wheeler, Bobby Coffey, William Franklin
Reviewer: William Franklin

Objective or Outcome	Measure(s)		
	Measure Text	**Achievement Target**	**Assess Month**
SLO 1 - Graduates will demonstrate problem solving skills in repairing weldable materials.	Lab rubric designed to access problem solving skills related to repairing weldable materials.	80% of the students will score 3 or higher on the 5 point scale.	April
SLO 2 - Student will be able to apply knowledge of forming, fitting, and welding processes with emphasis on math	Capstone Project to apply knowledge of forming, fitting and welding processes, using AWS Structure Standard evaluation rubric (scale 1-10).	All students scoring at least 70% (7.0 on rubric scale).	April

calculations and troubleshooting welding processes.			
SLO 3 - Graduates will be able to use blueprint reading skills required in the welding profession.	Fabrication project - Students will use theirs skills learned to read blueprints as they relate to the fabrication project. This is the last assignment for the fabrication project.	80% of the students will receive a satisfactory or higher on the last assignment of the fabrication project. (8.0 on a rubric scale).	April