2017-2018
Learning Enhancement Annual Plans (LEAPs)
Program Name: AAS - Associate Degree Nursing & Transition Programs (Health Occupations)
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
RNSG 1125 Professional Nursing Concepts I
RNSG 1430 Health Care Concepts I

1.1 Division-Department
Health Occupations

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes
Links

Career Entry Skills
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.4 Measured Outcome
Safety

1.4.1 Student Learning Outcomes
By the end of Level I, the student will be able to apply principles of safety when caring for clients/families across the lifespan that have the key exemplars covered during the semester.

1.4.2 Learning Activities
Implement concept-based curriculum for Level I in class, skills and clinical, incorporating interactive class activities, simulation, EAQ, Canvas, and EHR.

1.4.3 Core Objective (LINK to selection)

Career Entry Skills
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.4.4 Measure of Success
Fifty percent of the students will score at 850 or higher on safety on the HESI Custom Test for Level I.

1.5 Measured Outcome
1.5.1 Student Learning Outcomes
By the end of Level I, the student will be able to apply principles of clinical judgment when caring for clients/families across the lifespan that have the key exemplars covered during the semester.

1.5.2 Learning Activities
Implement concept-based curriculum for Level I in class, skills and clinical, incorporating interactive class activities, simulation, EAQ, Canvas, and EHR.

1.5.3 Core Objective (LINK to selection)

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1.5.4 Measure of Success
Fifty percent of the students will score at 850 or higher on clinical judgment on the HESI Custom Test for Level I.

2 Course
RNSG 1533 Health Care Concepts II
RNSG 1126 Professional Nursing Concepts II

2.1 Division-Department
Health Occupations

2.2 Course Type
WECM Course (nonTransfer)

2.3 Required General Education Outcomes (LINK to selection)

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2.4 Measured Outcome
Clinical Judgment

2.4.1 Student Learning Outcomes
By the end of Level II, the student will be able to apply principles of clinical judgment and a systematic problem-solving approach when caring for clients/families across the lifespan with common health care needs.

2.4.2 Learning Activities
Implement concept-based curriculum for Level I and II in class, skills and clinical, incorporating interactive class activities, simulation, EAQ, Canvas, HESI Remediation from Level I, and EHR.

2.4.3 Core Objective (LINK to selection)

General Outcomes

Links

General Education

Outcomes

Career Entry Skills

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation.

2.4.4 Measure of Success
Fifty percent of the students will score at 850 or higher on clinical judgment on the HESI Custom Test for Level II.

2.5 Measured Outcome
Nursing Process

2.5.1 Student Learning Outcomes
By the end of Level II, the student will be able to apply the nursing process to provide safe nursing care for diverse simulated clients/families experiencing common health care problems.

2.5.2 Learning Activities
Implement concept-based curriculum for Level I and II in class, skills and clinical, incorporating interactive class activities, simulation, EAQ, Canvas, HESI Remediation from Level I and EHR.

2.5.3 Core Objective (LINK to selection)

General Outcomes

Links

General Education

Outcomes

Career Entry Skills

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation.

2.5.4 Measure of Success
Fifty percent of the students will score at 850 or higher on each of the five areas of the nursing process and the safe/effective care environment on the HESI Custom Test for Level II.

2.6 Measured Outcome
Physiologic Integrity
2.6.1 Student Learning Outcomes
By the end of Level II, the student will be able to promote physical health and wellness by providing care and comfort, reducing client risk potential, and managing health alterations for clients with common health problems (physiological integrity).

2.6.2 Learning Activities
Implement concept-based curriculum for Level I and II in class, skills and clinical, incorporating interactive class activities, simulation, EAQ, Canvas, HESI Remediation from Level I and EHR.

2.6.3 Core Objective (LINK to selection)

General Outcomes
Links

General Education Outcomes

Career Entry Skills
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

2.6.4 Measure of Success
Fifty percent of the students will score at 850 or higher on the physiological integrity section of the HESI Custom Test for Level II.

3 Course
RNSG 1538 Health Care Concepts III
RNSG 1137 Professional Nursing Concepts III

3.1 Division-Department
Health Occupations

3.2 Course Type
WECM Course (nonTransfer)

3.3 Required General Education Outcomes (LINK to selection)

3.4 Measured Outcome
Safety

3.4.1 Student Learning Outcomes
By the end of Level III, the student will be able to demonstrate the ability to make safe and ethical collaborative clinical decisions for diverse clients/groups of clients.

3.4.2 Learning Activities
Implement concept-based curriculum for Level III in class, skills and clinical, incorporating interactive class activities, simulation, Nursing Concepts Online, EAQ, and EHR.

3.4.3 Core Objective (LINK to selection)
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation.

3.4.4 Measure of Success
Fifty-five percent of the students will score at 850 or higher the safe/effective care environment on the HESI Custom Test for Level III.

3.5 Measured Outcome
Clinical Judgment

3.5.1 Student Learning Outcomes
By the end of Level III, the student will be able to use a systematic problem-solving process and clinical judgment skills in the care of patients with selected exemplars for concepts covered this semester.

3.5.2 Learning Activities
Implement concept-based curriculum for Level III in class, skills and clinical, incorporating interactive class activities, simulation, Nursing Concepts Online, EAQ, Canvas, HESI Remediation and EHR.

3.5.3 Core Objective (LINK to selection)

3.5.4 Measure of Success
Fifty-five percent of the students will score at 850 or higher the clinical judgment section on the HESI Custom Test for Level III.

3.6 Measured Outcome
Physiological Integrity

3.6.1 Student Learning Outcomes
By the end of Level III, the student will be able to promote physical health and wellness by providing care and comfort, reducing client risk potential, and managing health alterations for clients with health care problems that are hard to predict (physiological integrity).

3.6.2 Learning Activities
Implement concept-based curriculum for Level III in class, skills and clinical, incorporating interactive class activities, simulation, Nursing Concepts Online, Canvas, HESI Remediation, Canvas, EAQ, and EHR

3.6.3 Core Objective (LINK to selection)
Career Entry Skills

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

### 3.6.4 Measure of Success
Fifty-five percent of the students will score at 850 or higher the physiological integrity section on the HESI Custom Test for Level III.

### 4 Course
RNSG 2539 Health Care Concepts IV
RNSG 2138 Professional Nursing Concepts IV

#### 4.1 Division-Department
Health Occupations

#### 4.2 Course Type
WECM Course (nonTransfer)

#### 4.3 Required General Education Outcomes (LINK to selection)

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#### 4.4 Measured Outcome
Clinical Judgment & Safety

#### 4.4.1 Student Learning Outcomes
By the end of the program, the student will be able to demonstrate the ability to utilize critical thinking skills to make safe and ethical clinical decisions.

#### 4.4.2 Learning Activities
Implement the entire curriculum in class, skills and clinical, incorporating interactive class activities, simulation Nursing Concepts Online, Canvas, HESI Remediation, EAQ, and EHR.

#### 4.4.3 Core Objective (LINK to selection)

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4.4.4 Measure of Success
Sixty percent of the students will score at 850 or higher the safe, effective care environment and clinical judgment sections on the HESI Exit Exam.

4.5 Measured Outcome
Nursing Process

4.5.1 Student Learning Outcomes
By the end of the program, the student will be able to develop and implement a plan of care for the diverse client/family across the lifespan with complex health care needs in a variety of settings.

4.5.2 Learning Activities
Implement the entire curriculum in class, skills and clinical, incorporating interactive class activities, simulation Nursing Concepts Online, EAL, EAQ, and EHR.

4.5.3 Core Objective (LINK to selection)

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Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation.

4.5.4 Measure of Success
Sixty percent of the students will score at 850 or higher on the five areas of the nursing process sections on the HESI Exit Exam.

4.6 Measured Outcome
Physiological Integrity

4.6.1 Student Learning Outcomes
By the end of the program, the student will be able to promote physical health and wellness by providing care and comfort, reducing client risk potential, and managing health alterations for clients with complex health care problems (physiological integrity).

4.6.2 Learning Activities
Implement the entire curriculum in class, skills and clinical, incorporating interactive class activities, simulation Nursing Concepts Online, HESI Remediation, EAQ, and EHR.

4.6.3 Core Objective (LINK to selection)

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4.6.4 Measure of Success
Sixty percent of the students will score at 850 or higher on physiological integrity on the HESI Exit Exam at the end of Level IV.

5 Course
Pre-Nursing Activities

5.1 Division-Department
Health Occupations

5.2 Course Type
WECM Course (nonTransfer)

5.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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<tr>
<th>General Education Outcomes</th>
<th>Communication Skills (CM): To include effective development, interpretation and expression of ideas through written, oral and visual communication</th>
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5.4 Measured Outcome
Reading Skills

5.4.1 Student Learning Outcomes
By the end of the Summer, the student will have increased reading proficiency skills enough to negate the risk from having low reading scores on the HESI entrance exam.

5.4.2 Learning Activities
Continue Scheduled Summer Learning Lab sessions on reading the nursing textbooks, reading skills, study skills, using the syllabus, and test-taking skills. For all incoming students who did not pass the HESI A2 entrance test (79) in reading the first time, they will do at least 4 hours a week over the summer in the Weaver Reading program.

5.4.3 Core Objective (LINK to selection)

General Outcomes Links

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5.4.4 Measure of Success
The students who complete the reading program will have a retention rate at the end of the first year that is at least as good as the rest of the students.
Program Name: AAS/Certificate - Emergency Medical Technology/Technician (EMT Paramedic)
Program Cycle: #5  Sep 1, 2017   to  Aug 31, 2018

1 Course
EMSP 1501 - Emergency Medical Technology

1.1 Division-Department
Health Occupations

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome
Cardiology

1.4.1 Student Learning Outcomes
By the end of the Emergency Medical Technology course, the student will be able to demonstrate a working knowledge of clinical information and related topics relevant to the practice of pre-hospital personnel at the EMT Basic level in cardiac management.

1.4.2 Learning Activities
Implement the curriculum related to cardiac assessment and management in class and skills.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
At least 50% of the students taking the National Registry Exam at the EMT Basic level will score at or above the passing level on the sub-test of items related to cardiology.

1.5 Measured Outcome
1.5.1 Student Learning Outcomes
By the end of the Emergency Medical Technology course, the student will be able to demonstrate a working knowledge of clinical information and related topics relevant to the practice of pre-hospital personnel at the EMT Basic level in airway management.

1.5.2 Learning Activities
Implement the curriculum related to airway assessment and management in class and skills.

1.5.3 Core Objective (LINK to selection)

General Outcomes
Links

General Education

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.5.4 Measure of Success
At least 50% of the students taking the National Registry Exam for the EMT Basic level will score at or above the passing level on the subtest of items related to airway.

2 Course
EMSP 1356 - Patient Assessment and Airway Management

2.1 Division-Department
Health Occupations

2.2 Course Type
WECM Course (nonTransfer)

2.3 Required General Education Outcomes (LINK to selection)

General Outcomes
Links

General Education

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

2.4 Measured Outcome
Airway Management

2.4.1 Student Learning Outcomes
By the end of the program, the student will be able to demonstrate knowledge and skills required for airway management.

2.4.2 Learning Activities
Implement the curriculum related to airway management in class, skills and clinical, incorporating all appropriate Department of Transportation objectives and including the changes made as a result of the last evaluation of LEAPs.

2.4.3 Core Objective (LINK to selection)

*General Outcomes
Links

*General Education* General Education Outcomes

Career Entry Skills: Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

2.4.4 Measure of Success
At least 60% of the students taking the Platinum final exam for paramedics in the last semester of the paramedic program will score at or above the recommended level on the subtest of items related to airway management

3 Course
EMSP 1355 Trauma Management

3.1 Division-Department
Health Occupations

3.2 Course Type
WECM Course (nonTransfer)

3.3 Required General Education Outcomes (LINK to selection)

*General Outcomes
Links

*General Education* General Education Outcomes

Career Entry Skills: Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

3.4 Measured Outcome
Trauma

3.4.1 Student Learning Outcomes
By the end of the program, the student will be able to integrate pathophysiological principles and assessment findings to formulate a field impression and implement a treatment plan for the trauma patient.
3.4.2 Learning Activities
Implement the curriculum related to trauma patients in class, skills and clinical, incorporating all appropriate Department of Transportation objectives and including changes made after the last evaluation of LEAPs.

3.4.3 Core Objective (LINK to selection)

General Outcomes
Links

General Education General Education Outcomes
Career Entry Skills Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

3.4.4 Measure of Success
At least 60% of the students taking the Platinum Exit exam for Paramedics in the last semester of the paramedic program will score at or above the recommended level on the sub-test of items related to trauma.

4 Course
EMSP 2434 Medical Emergencies

4.1 Division-Department
Health Occupations

4.2 Course Type
WECM Course (nonTransfer)

4.3 Required General Education Outcomes (LINK to selection)

General Outcomes
Links

General Education General Education Outcomes
Career Entry Skills Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

4.4 Measured Outcome
Medical

4.4.1 Student Learning Outcomes
By the end of the program, the student will be able to integrate pathophysiological principles and assessment findings to formulate a field impression and implement a treatment plan for the medical patient.

4.4.2 Learning Activities
Implement the curriculum related to medical patients in class, skills and clinical, incorporating all appropriate Department of Transportation objectives and including changes made after the last evaluation of LEAPs.
4.4.3 Core Objective (LINK to selection)

**General Outcomes**

**Links**

**General Education**

**General Education Outcomes**

**Career Entry Skills**

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation.

4.4.4 Measure of Success

At least 60% of the students taking the Platinum Exit exam for paramedics in the last semester of the paramedic program will score at the recommended level or higher on the subtest related to medical problems.

5 Course

**EMSP 2444 Cardiology**

5.1 Division-Department

Health Occupations

5.2 Course Type

WECM Course (nonTransfer)

5.3 Required General Education Outcomes (LINK to selection)

**General Outcomes**

**Links**

**General Education**

**General Education Outcomes**

**Career Entry Skills**

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation.

5.4 Measured Outcome

Cardiology

5.4.1 Student Learning Outcomes

By the end of the program, the student will be able to demonstrate a working knowledge of clinical information and related topics relevant to the practice of pre-hospital personnel in cardiac management.

5.4.2 Learning Activities

Implement the curriculum related to cardiac management in class, skills and clinical, incorporating all appropriate Department of Transportation objectives. Utilize plans developed after evaluation of last year's LEAPs.

5.4.3 Core Objective (LINK to selection)
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation.

5.4.4 Measure of Success

At least 60% of the students taking the Platinum Exit Exam for Paramedics in the last semester of the paramedic program will score at the recommended level on the cardiology items.
Program Name: AAS/Certificate - Surgical Technology (Health Occupations)
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course Surgical Technology Level II

1.1 Division-Department Health Occupations

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes

Links

General Education
Outcomes

Career Entry Skills
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.4 Measured Outcome Anatomy & Physiology

1.4.1 Student Learning Outcomes
By the end of SRGT 1441 and 1442, the student will be able to relate the relevant anatomy and pathology to indications for selected surgical procedures.

1.4.2 Learning Activities
Implement the curriculum for SRGT 1441 and 1442 in class. Clinical experiences will help reinforce the principles.

1.4.3 Core Objective (LINK to selection)

General Outcomes

Links

General Education
Outcomes

Career Entry Skills
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.4.4 Measure of Success
Seventy percent of the students will score 70% or higher on the anatomy & physiology section of the CST given at the end of the program.

1.5 Measured Outcome Intraoperative Procedures

1.5.1 Student Learning Outcomes
By the end of the program, the student will be able to demonstrate knowledge of certifying exam content related to intraoperative procedures.

1.5.2 Learning Activities
Implement the curriculum for SRGT 1409 in class and skills. Clinical experiences will help reinforce the principles and content.

1.5.3 Core Objective (LINK to selection)

1.5.4 Measure of Success
Seventy percent of the students will score 70% or higher on the Intraoperative Procedures subsection of the CST exam given at the end of the spring semester.

1.6 Measured Outcome Surgical Pharmacology

1.6.1 Student Learning Outcomes
By the end of the program, the student will be able to demonstrate knowledge of certifying exam content related to surgical pharmacology.

1.6.2 Learning Activities
Implement the curriculum for SRGT 1409, 1405, 1441 and 1442 in class and skills. Clinical experiences will help reinforce the principles and content. Instructor will use specific text on pharmacology as a resource and test more in this area.

1.6.3 Core Objective (LINK to selection)

1.6.4 Measure of Success
Seventy percent of the students will score 70% or higher on the Surgical Pharmacology subsection of the CST exam given at the end of the spring semester.
Program Name: ABDR.1441  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course  
ABDR.1441, Structural Analysis & Damage Repair I

1.1 Division-Department  
TDCJ- AUTO BODY REPAIR

1.2 Course Type  
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes  
The student will be able to mix and apply plastic filler

1.4.2 Learning Activities  
Text, Video, Lecture, Demo, Lab

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success  
85% of the students will be able to perform the task without instructor supervision.
Program Name: ABDR.2431
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1. Course
ABDR.2431, Structural Analysis & Damage Repair III

1.1 Division-Department
TDCJ- AUTO BODY REPAIR

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Student will be able to repair plastic panels.

1.4.2 Learning Activities
Lecture, 3m Video, and instruction pamphlet.

1.4.3 Core Objective (LINK to selection)

General Outcomes

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1.4.4 Measure of Success
85% of the students will be able to perform the task without instructor supervision.
1 Course
ABDR.2441, Major Collision Repair & Panel Replacement

1.1 Division-Department
TDCJ- AUTO BODY REPAIR

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Student will be able to properly mask a vehicle to be primed and painted.

1.4.2 Learning Activities
Text, Video, Lecture, Demo, Lab

1.4.3 Core Objective (LINK to selection)

General Outcomes

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1.4.4 Measure of Success
85% of the students will be able to perform the task without instructor supervision.
Program Name: ACCT.2401
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
ACCT 2401, Financial Accounting

1.1 Division-Department
Business and Computer Science Division  Accounting Department

1.2 Course Type
Academic General Education Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

<table>
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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
The student will be able to analyze, classify and record a group of Business Transactions in a Standard two column journal, foot the journal, and post the transactions to the general ledger accounts.

1.4.2 Learning Activities
Define, (Match, Recognize) Accounting terms, Analyze, classify, record, and calculate the transactions in a standard two column journal, record the appropriate account title and amount in the journal, foot the journal, post the amount of each transaction to the appropriate general ledger accounts and calculate the normal balance in each account

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
60 percent of the evaluated students will demonstrate an ability of 70% mastery of the objective.

1.5 Measured Outcome

1.5.1 Student Learning Outcomes
Given a complete list of accounts and normal balances, the student will be able to complete an Income Statement, Equity Statement, and Balance Sheet.

1.5.2 Learning Activities
Calculate, format and complete the following financial statements: Income Statement, Statement of Equity, and Balance Sheet. Statement preparation will include the date of statements, period of time, net income or loss, new capital balance, individual totals, and final totals for assets, liabilities, and capital on the balance sheet.

1.5.3 Core Objective (LINK to selection)

General Outcomes
Links
General Education
Critical Thinking Skills (CT): To include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.5.4 Measure of Success
60 percent of the evaluated students will demonstrate an ability of 70% mastery of the objective.

1.6 Measured Outcome

1.6.1 Student Learning Outcomes
The student will determine the final value of Merchandise Inventory using the FIFO, LIFO, Average Cost, RETAIL and GROSS PROFIT Methods.

1.6.2 Learning Activities
Calculate and record the final value of merchandise inventory using FIFO, LIFO, Average Cost, RETAIL and GROSS PROFIT Methods. The information provided for calculations will include number of items and cost of each item on invoice and the inventory remaining at the end of the year. Additional information will also be provided to the student for calculation using the Retail and Gross Profit Method.

1.6.3 Core Objective (LINK to selection)

General Outcomes
Links
General Education
Critical Thinking Skills (CT): To include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation
Empirical and Quantitative Skills (EQS): To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.6.4 Measure of Success

60 percent of the evaluated students will demonstrate an ability of 70% mastery of the objective
Program Name: ACCT.2402
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
ACCT 2402, Managerial Accounting

1.1 Division-Department
Business and Computer Science, Accounting Department

1.2 Course Type
Academic General Education Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
The student will be able analyze, and calculate nineteen accounting formulas dealing with Liability and Solvency Measures and Profitability Measures.

1.4.2 Learning Activities
Student will be able to calculate the following Accounting Analytical Measures. Working capital, current ratio, quick ratio, accounts receivable turnover, number of days sales in receivables, inventory turnover, number of days sales in inventory, ration of fixed assets to long-term liabilities, ration of liabilities to stockholders equity, number of times interest charges are earned, number of times preferred dividends are earned, ration of sales assets, rate earned on assets, rate earned on stockholder equity, rate earned on common stockholders equity earnings per share(EPS) on common stock, price-earnings (P/E) ratio, dividends per share, dividend yield.

1.4.3 Core Objective (LINK to selection)

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Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.4.4 Measure of Success
60 percent of the evaluated students will demonstrate an ability of 70% mastery of the objective

1.5 Measured Outcome

1.5.1 Student Learning Outcomes
The student will be able to identify, direct materials, direct labor and factory overhead components used in a manufacturing business. Student will be able to identify the direct material cost based on the integral and significant costs rule. Student will be able to identify Prime cost and Conversion, and period costs. Student will be able to identify the three types of inventory in a manufacturing business.

1.5.2 Learning Activities
Student will be able to describe a cost object, classify a cost as a direct material, direct labor or factory overhead cost. Student will be able to identify a product or period costs and classify a cost as a prime or conversion cost.

1.5.3 Core Objective (LINK to selection)

General Outcomes
Links

General Education
Outcomes

Critical Thinking

Critical Thinking Skills (CT): To include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information

Career Entry Skills

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.5.4 Measure of Success
60 percent of the evaluated students will demonstrate an ability of 70% mastery of the objective.
Program Name: ACNT.1303  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
ACNT 1303, Introduction to Accounting

1.1 Division-Department
Business and Computer Science - Accounting Department

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
The student will be able to analyze, classify and record a group of Business Transactions in a Standard two column journal, foot the journal, and post the transactions to the general ledger accounts.

1.4.2 Learning Activities
Analyze, classify, record, and calculate the transactions in a standard two column journal, record the appropriate account title and amount in the journal, foot the journal, post the amount of each transaction to the appropriate general ledger accounts and calculate the normal balance in each account.

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1.4.4 Measure of Success
60 percent of the evaluated students will demonstrate an ability of 70% mastery of the objective.

1.5 Measured Outcome

1.5.1 Student Learning Outcomes
Given a complete list of accounts and normal balances, the student will be able to complete an Income Statement, Equity Statement, and Balance Sheet.

1.5.2 Learning Activities
Calculate, format and complete the following financial statements: Income Statement, Statement of Equity, and Balance Sheet. Statement preparation will include the date of statements, period of time, net income or loss, new capital balance, individual totals, and final totals for assets, liabilities, and capital on the balance sheet.

1.5.3 Core Objective (LINK to selection)

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Career Entry Skills
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.5.4 Measure of Success
60 percent of the evaluated students will demonstrate an ability of 70% mastery of the objective.

1.6 Measured Outcome

1.6.1 Student Learning Outcomes
The student will be able to prepare a payroll register, employee earnings record and the accompanying journal entries.

1.6.2 Learning Activities
Calculate regular pay, overtime pay, cumulative pay, gross pay, net pay, deductions for FICA, FUTA, SUTA, Medicare, federal income tax, and voluntary deductions.

1.6.3 Core Objective (LINK to selection)

General Outcomes
Links

General Education
General Education Outcomes
Empirical and Quantitative Skills
Empirical and Quantitative Skills (EQS): To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
Career Entry Skills

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation.

1.6.4 Measure of Success

60 percent of the evaluated students will demonstrate an ability of 70% mastery of the objective.
Program Name: AGAH.1353  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course  
AGAH 1353, Beef Cattle Production

1.1 Division-Department  
CAreer and Technology - Ranch Management

1.2 Course Type  
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome  
60% Success Rate - Select Breeding Bull  
90% of students successfully selected a sound, fertile bull using visual and EPD data.

1.4.1 Student Learning Outcomes  
Students will be able to select a sound, fertile bull using visual and EPD data.

1.4.2 Learning Activities  
In a classroom setting, students will evaluate criteria for a sound, fertile bull. Evaluate live bulls to determine the best breed prospects for varying cattle herds.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
60% of evaluated students will be able to select a breeding bull and demonstrate 75% mastery in analyzing criteria for bull selection.
Program Name: AGAH.1447  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course  
AGAH 1447, Animal Reproduction

1.1 Division-Department  
Career and Technology - Ranch Management

1.2 Course Type  
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome  
Determining Pregnancy or Lack thereof in Cattle  
60% of students will palpate a cow and successfully determine if she is bred or open.

1.4.1 Student Learning Outcomes  
Students will be able to palpate a cow to determine if bred or open.

1.4.2 Learning Activities  
At the end of the course, the student will be evaluated to determine ability to determine pregnancy or absence of pregnancy in cattle.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
60% of evaluated students will be able to palpate a cow to determine if bred or open and demonstrate 75% mastery out of 10 head of cattle.
Program Name: AGAH.2313
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
AGAH 2313, Principles of Feeds and Feeding

1.1 Division-Department
Career and Technology - Ranch Management

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome  Cattle Body Condition Scoring
60% of students will successfully analyze criteria for acceptable vs. nonacceptable body condition scores in cattle.

1.4.1 Student Learning Outcomes
Students will be able body condition score cattle

1.4.2 Learning Activities
In a classroom setting and using live animals, students will gain the knowledge needed in order to give correct body condition scores on cattle.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
60% of evaluated students will be able to body condition score cattle and demonstrate 75% mastery in analyzing criteria for acceptable vs. nonacceptable condition scores.
Program Name: AGRI.1307  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course AGRI 1307  
AGRI 1307, Agronomy

1.1 Division-Department  Career and Technology - Agriculture  
Career and Technology - Agriculture

1.2 Course Type  
Academic General Education Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes

Students will be able to perform a soil test analysis for various primary plant nutrients, pH, and texture using a field soil test kit.

1.4.2 Learning Activities

I will use the TVCC Agriculture building lab and the department's field soil test kit for students to learn how to test and analyze soil samples.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

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1.4.4 Measure of Success

60% of enrolled students will (suggested learning activity) and demonstrate at least 80% mastery in (core objective)
Program Name: AGRI.1319  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course  
AGRO 1319, Animal Science

1.1 Division-Department  
Career and Technology - Agriculture

1.2 Course Type  
Academic General Education Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes  
Students will be able to demonstrate an understanding of the various types, breeds, market classes and grade of livestock including factors influencing the efficiency of feeding, marketing, breeding, care, and management

1.4.2 Learning Activities  
Students will gain an understanding of the desired outcome in the course through reading the textbook material, class interaction and discussion, practice exercises, and class and lab demonstrations.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
60% of enrolled students will (suggested learning activity) and demonstrate at least 75% mastery in (core objective)
Program Name: AGRI.1325
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
AGRI 1325, Marketing of Agricultural Products

1.1 Division-Department
Career and Technology - Agriculture

1.2 Course Type
Academic General Education Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Education  General Education Outcomes

- Critical Thinking
  Critical Thinking Skills (CT): To include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information

1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Students will become familiar with the theory, practice and politics of world trade in agricultural products

1.4.2 Learning Activities
Students will develop an understanding of the desired outcome through reading assignments, class interaction and discussion, and class lecture.

1.4.3 Core Objective (LINK to selection)

General Education  General Education Outcomes

- Critical Thinking
  Critical Thinking Skills (CT): To include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information

1.4.4 Measure of Success
65% of evaluated students will complete the drawing project and demonstrate 75% mastery in communicating the correct size, shape, appearance, and material of an object to be created
Program Name: ARTS.1301
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
ARTS 1301, Art Appreciation

1.1 Division-Department
Speech and Fine Arts - Art

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Demonstrate a knowledge of a new vocabulary and new ways of seeing/communicating about art

1.4.2 Learning Activities
Formal essays and/or presentation work which assesses the mechanics, structure, connection of content to the main topic, logic, and accuracy and/or depth of content. Presentation would require a final product in the form of a visual aid.

Flash card, discussion board, and/or structured game for which students are assessed based on participation within a group.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

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Communication Skills: expression of ideas through written, oral and visual communication

Teamwork: Teamwork (TW): To include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

1.4.4 Measure of Success

CT: Seventy-five percent of students who submit the report and execute a visual presentation will score of at least 12 on "Summary of a formal analysis of one of the artist's works using appropriate visual vocabulary."

CM: Seventy-five percent of students who submit the report and execute a visual presentation will achieve a combined score of at least 7 on "Basic biographical facts" and on "How the artist/work displays the major characteristics of art movement."

TW: Seventy-five percent of students who submit the report and execute a visual presentation will score at least 7 on the peer evaluation point average.

1.5 Measured Outcome

1.5.1 Student Learning Outcomes

Demonstrate an understanding of the importance of artists as recorders and contributors to history

1.5.2 Learning Activities

Formal essays and/or presentation work which assesses the mechanics, structure, connection of content to the main topic, logic, and accuracy and/or depth of content.

Mock interviews/newspaper reporting require students to use their imagination in formulating questions and answers which ask the artist to share their opinions and concerns about community, state, or national issues and needs as well as factual historical information found within the artwork

1.5.3 Core Objective (LINK to selection)

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1.5.4 Measure of Success

SR: Seventy-five percent of students who submit the report and execute a visual presentation will score at least 7 on "If this artist were alive today, what issue would their art explore?"
Program Name: ARTS.1303
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
ARTS 1303, Art History I

1.1 Division-Department
Speech and Fine Arts - Art

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Analyze the relationship of art to history by placing works of art within cultural, historical, and chronological contexts.

1.4.2 Learning Activities
Formal essays and/or presentation work which assesses the mechanics, structure, connection of content to the main topic, logic, and accuracy and/or depth of content.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

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<td>Communication Skills (CM): To include effective development, interpretation and expression of ideas through written, oral and visual communication</td>
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</table>
1.4.4 Measure of Success

CT: Of the students who produce and present a portfolio, 80% will earn at least 80% of the points available for correctly identifying examples of artistic elements within the community.
CM: Of the students who produce and present a portfolio, 80% will earn at least 100% of the points available for effectively presenting their portfolio to the class.

1.5 Measured Outcome

1.5.1 Student Learning Outcomes
Identify various artists, their styles, and the time period in which they lived

1.5.2 Learning Activities
Formal essays and/or presentation work which assesses the mechanics, structure, connection of content to the main topic, logic, and accuracy and/or depth of content. One component of the essay could explore the artists contribution to the needs of his/her community, state, or nation. Presentation would require a final product in the form of a visual aid.
Flash card, discussion board, and/or structured game for which students are assessed based on participation within a group

1.5.3 Core Objective (LINK to selection)

General Outcomes Links

General Education

Outcomes

Teamwork

Teamwork (TW): To include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

1.5.4 Measure of Success

TW: Of the students who produce a timeline, 100% will effectively work with their team members in the production of a timeline.

1.6 Measured Outcome

1.6.1 Student Learning Outcomes
Demonstrate an understanding of the importance of artists as recorders and contributors to history.

1.6.2 Learning Activities
Formal essays and/or presentation work which assesses the mechanics, structure, connection of content to the main topic, logic, and accuracy and/or depth of content. Presentation would require a final product in the form of a visual aid.
Mock interviews/newspaper reporting require students to use their imagination in formulating questions and answers which ask the artist to share their opinions and concerns about community, state, or national issues and needs as well as factual historical information found within the artwork.

1.6.3 Core Objective (LINK to selection)

General Outcomes Links

General Education

Outcomes
Education Outcomes

Social Responsibility (SR): To include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities

1.6.4 Measure of Success
SR: Of the students who produce and present a portfolio, 80% will earn 100% of the points available for demonstrating their understanding of the artists connection to their communities.
Program Name: ARTS.1304  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course  
ARTS 1304, Art History II

1.1 Division-Department  
Speech and Fine Arts - Art

1.2 Course Type  
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes  
Analyze the relationship of art to history by placing works of art within cultural, historical, and chronological contexts

1.4.2 Learning Activities  
Formal essays and/or presentation work which assesses the mechanics, structure, connection of content to the main topic, logic, and accuracy and/or depth of content.

1.4.3 Core Objective (LINK to selection)

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1.5 Measured Outcome

1.5.1 Student Learning Outcomes
Identify various artists, their styles, and the time period in which they lived.

1.5.2 Learning Activities
Formal essays and/or presentation work which assesses the mechanics, structure, connection of content to the main topic, logic, and accuracy and/or depth of content. One component of the essay could explore the artists' contribution to the needs of his/her community, state, or nation. Presentation would require a final product in the form of a visual aid.
Flash card, discussion board, and/or structured game for which students are assessed based on participation within a group.

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1.5.4 Measure of Success
TW: Of the students who produce a timeline, 100% will effectively work with their team members in the production of a timeline.

1.6 Measured Outcome

1.6.1 Student Learning Outcomes
Demonstrate an understanding of the importance of artists as recorders and contributors to history.

1.6.2 Learning Activities
Formal essays and/or presentation work which assesses the mechanics, structure, connection of content to the main topic, logic, and accuracy and/or depth of content. Presentation would require a final product in the form of a visual aid.
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1.6.3 Core Objective (LINK to selection)

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Education Outcomes

Social Responsibility (SR): To include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities

1.6.4 Measure of Success

SR: Of the students who produce and present a portfolio, 80% will earn 100% of the points available for demonstrating their understanding of the artists connection to their communities.
Program Name: AUMT.1405  
Program Cycle: #5  Sep 1, 2017   to   Aug 31, 2018  

1 Course  
AUMT 1405, Introduction to Automotive Technology  

1.1 Division-Department  
Career and Technology  

1.2 Course Type  
WECM Course (nonTransfer)  

1.3 Required General Education Outcomes (LINK to selection)  

General Outcomes Links  

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1.4 Measured Outcome  
Student Learning Outcome  

70% of the evaluated students will be able to ID thread size by comparing the obtained information with the specification reference material, using a thread gauge and visual inspection.  

1.4.1 Student Learning Outcomes  
The student will be able to identify the different sizes of SAE and National course bolts.  

1.4.2 Learning Activities  
Student will measure bolt with a ruler and determine thread size by comparing the obtained information with the specification reference material and using a thread gauge  

1.4.3 Core Objective (LINK to selection)  

General Outcomes Links  

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1.4.4 Measure of Success  
Indicates: 70% of evaluated students will complete the identification of the bolts and thread size of 80% of bolt
and nuts assigned.
1 Course
AUMT 1416, Suspension and Steering

1.1 Division-Department
Career and Technology

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome  Student Learning Outcome
80% of the enrolled Students be able to to connect the alignment machine to the automobile and Align the front and rear suspension, using the Specifications acquired from the computer.

1.4.1 Student Learning Outcomes
Students will be able to connect the alignment machine to the automobile

1.4.2 Learning Activities
Students will study the component parts to the front and rear suspension system in the online reference material follow the diagram for correctly attaching the alignment machine to the automobile.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

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1.4.4 Measure of Success
70% of evaluated student will complete 80% of the process of connecting the automobile to the alignment
machine
Program Name: AUMT.1419
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
AUMT 1419, Auto Engine Repair

1.1 Division-Department
Career and Technology

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome
Student Learning Outcome
80% of the Students were able to check ring to piston groove side clearance to determine if it is within specifications, using the assigned tools.

1.4.1 Student Learning Outcomes
Student will be able to check ring to piston groove side clearance to determine if it is within specifications.

1.4.2 Learning Activities
Using a feeler gauge, a micrometer and reference material, the student will perform the ring to piston groove side clearance check to determine if it is within specifications.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
Indicates: 70% of evaluated students will complete the side clearance check and determine if the clearance is within spec 80% of the time.
Program Name: BCIS.1305  
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course  
BCIS 1305, Business Computer Applications

1.1 Division-Department  
Business and Computer Science

1.2 Course Type  
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes  
Format a research paper using the appropriate MLA seventh edition style.

1.4.2 Learning Activities  
Student will show proficiency by formatting an unformatted research paper with the specified formatting required. The formatting should include; modifying the documents normal style to Times New Roman, 12 pt., double spacing, no blank space after paragraphs; inserting a header with name and page number, inserting text, inserting a web citation, inserting a journal citation, inserting a book citation, inserting a footnote, formatting a bulleted list, and inserting a bibliography.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success

75% of students evaluated will score a 70% on the project.
1 Course
BIOL 1406, General Biology for Science Majors I

1.1 Division-Department
Science and Mathematics - Biology

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Use critical thinking and scientific problem-solving to make informed decisions in the laboratory.

1.4.2 Learning Activities
Students will work in groups to prepare a written report analyzing the data given and answering questions given. The questions will cover solving problems, applying principles to a new situation, making corrections and generating alternative solutions. Papers will be graded for mechanics, structure, content, logic and accuracy. Teamwork will be evaluated on for participation, synthesis of work and sharing work.

1.4.3 Core Objective (LINK to selection)

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Quantitative Skills

Teamwork

of numerical data or observable facts resulting in informed conclusions

Teamwork (TW): To include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

1.4.4 Measure of Success

benchmarks 70%/75% will succeed
Program Name: BIOL.1407
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
BIOL 1407, General Biology for Science Majors II

1.1 Division-Department
Science and Mathematics - Biology

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Use critical thinking and scientific problem-solving to make informed decisions in the laboratory

1.4.2 Learning Activities
The student will work in small groups (TW) to carry out or conduct an experiment applying theory from the textbook or lecture (CT) and evaluate the reasonableness of their results (EQ). An oral or written presentation (CM) will be required and the accuracy, depth of content, and/or the connection of the content with the main topic will be assessed.

1.4.3 Core Objective (LINK to selection)

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Quantitative Skills
of numerical data or observable facts resulting in informed conclusions

Teamwork
Teamwork (TW): To include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

1.4.4 Measure of Success
Benchmarks 70%
Goals 75% reach benchmark
1 Course
BIOL 1411, General Botany

1.1 Division-Department
Science and Mathematics - Biology

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Use critical thinking and scientific problem-solving to make informed decisions in the laboratory

1.4.2 Learning Activities
Students will work in groups to prepare a written report analyzing the data given and answering questions given. The questions will cover solve problems, apply principles to a new situation, make corrections and generate alternative solutions. Papers will be graded for mechanics, structure, content, logic and accuracy. Teamwork will be evaluated on for participation, synthesis of work and sharing work.

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Quantitative Skills of numerical data or observable facts resulting in informed conclusions

Teamwork (TW): To include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

1.4.4 Measure of Success

Benchmarks 70%/ 75% achieve
Program Name: BIOL.1413  
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course  
BIOL 1413, General Zoology

1.1 Division-Department  
Science and Mathematics - Biology

1.2 Course Type  
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes  
Use critical thinking and scientific problem-solving to make informed decisions in the laboratory.

1.4.2 Learning Activities  
Students work together in groups and divide and share measurement responsibilities using laboratory equipment and methods of scientific inquiry, to a laboratory experiment and report. Students will record the results of replicate quantitative measurements (tabular) and calculate averages to analyze the significance of their results and use written communication to explain the connection between their experimental content and the main topic of the experiment.

1.4.3 Core Objective (LINK to selection)

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### 1.4.4 Measure of Success

Benchmark 70%/goal 75% achieve
1 Course
BIOL 2401, Human Anatomy and Physiology I

1.1 Division-Department
Science and Mathematics - Biology

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Appropriately utilize laboratory equipment, such as microscopes, dissection tools, general lab ware, physiology data acquisition systems, and virtual simulations.

1.4.2 Learning Activities
Students will participate together in groups to apply the principles of microscopy functionally to the parts of the microscopes and their relationship to relative magnification, resolution, inversion, depth of field, focal plane, or contrast. Students will divide and share equally quantitative measures to demonstrate the relationship between microscopic samples analyzed in lab. Students will produce a final written portfolio (lab report) answering written questions that assess the connection of the content with the main topic and assess the accuracy of the analysis.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

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1.4.4 Measure of Success

Benchmark 70%/ goal 70% achieve
Program Name: BIOL.2402
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
BIOL 2402, Human Anatomy and Physiology II

1.1 Division-Department
Science and Mathematics - Biology

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Use critical thinking and scientific problem-solving skills, including, but not limited to, inferring, integrating, synthesizing, and summarizing, to make decisions, recommendations and predictions.

1.4.2 Learning Activities
Students will participate together in teams to produce a written case study analysis to solve a problem (pathology) and provide justification for their solution. Students will identify the essential information (key signs and symptoms) for solving the problem. Students will use quantitative measures to produce a timeline of the pathology and possible treatments and outcomes. The written presentation will assess the accuracy and depth of content of the analysis and assess the logic of their conclusions. Students will anonymously assess team members on their ability to divide tasks and share equally within the group.

1.4.3 Core Objective (LINK to selection)

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Teamwork: Teamwork (TW): To include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

1.4.4 Measure of Success

benchmark 80%/goal is 75% achieve
Program Name: BIOL.2404  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018  

1 Course  
BIOL 2404, Introduction to Human Anatomy and Physiology  

1.1 Division-Department  
Science and Mathematics - Biology  

1.2 Course Type  
Academic TVCC Core Course (Transfer)  

1.3 Required General Education Outcomes (LINK to selection)  

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1.4 Measured Outcome  

1.4.1 Student Learning Outcomes  
Appropriately utilize laboratory equipment, such as microscopes, dissection tools, general lab ware, physiolog data acquisition systems, and virtual simulations.  

1.4.2 Learning Activities  
Students will participate together in groups to apply the principles of microscopy functionally to the parts of the microscopes and their relationship to relative magnification, resolution, inversion, depth of field, focal plane, or contrast. Students will divide and share equally quantitative measures to demonstrate the relationship between microscopic samples analyzed in lab. Students will produce a final written portfolio (lab report) answering written questions that assess the connection of the content with the main topic and assess the accuracy of the analysis.  

1.4.3 Core Objective (LINK to selection)  

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Empirical and Quantitative Skills  Empirical and Quantitative Skills (EQS): To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
Teamwork  Teamwork (TW): To include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

1.4.4 Measure of Success
Benchmark 70%/Goal 75%
Program Name: BIOL.2420
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
BIOL 2420, Microbiology for Non-Science Majors

1.1 Division-Department
Science and Mathematics - Biology

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Demonstrate proficient use of a compound light microscope.

1.4.2 Learning Activities
Students will work in groups to prepare a written report analyzing the data given and answering questions given. The questions will cover solving problems, applying principles to a new situation, making corrections and generating alternative solutions. Papers will be graded for mechanics, structure, content, logic and accuracy. Teamwork will be evaluated on for participation, synthesis of work and sharing work.

1.4.3 Core Objective (LINK to selection)

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Teamwork
  Teamwork (TW): To include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

1.4.4 Measure of Success
Benchmark: 80%
Goal is 80% achieve benchmark
1 Course
BIOL 2421, Microbiology for Science Majors

1.1 Division-Department
Science and Mathematics - Biology

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Demonstrate proficient use of a compound light microscope.

1.4.2 Learning Activities
Students will work in groups to prepare a written report analyzing the data given and answering questions given. The questions will cover solving problems, applying principles to a new situation, making corrections and generating alternative solutions. Papers will be graded for mechanics, structure, content, logic and accuracy. Teamwork will be evaluated for participation, synthesis of work and sharing work.

1.4.3 Core Objective (LINK to selection)
Quantitative Skills
of numerical data or observable facts resulting in informed conclusions

Teamwork
Teamwork (TW): To include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

1.4.4 Measure of Success
Benchmark: 70% for success / 70% achieve
Program Name: BMGT.1327  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course  
BMGT 1327, Principles of Management

1.1 Division-Department  
Business and Computer Science - Management

1.2 Course Type  
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)  
Communication and Entry-level skills  
The student will use their communication skills to interview a manager and ask eight specific questions about their managerial position. This interview activity will give the student valuable information for entry-level supervision skills that will be needed as they obtain employment after graduation.

General Outcomes  
Links

General Education  
General Education Outcomes

Communication Skills  
Communication Skills (CM): To include effective development, interpretation and expression of ideas through written, oral and visual communication

Career Entry Skills  
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.4 Measured Outcome

1.4.1 Student Learning Outcomes  
Students will interview a manager to learn about their job, qualifications and challenges they face on a daily basis.

1.4.2 Learning Activities  
Students will choose a manager with 2-5 years of management experience and set up an interview. During the interview, the student will ask a set of eight questions related to the managers position. The student will prepare the assignment after the interview and include the detailed responses by using complete sentences.

1.4.3 Core Objective (LINK to selection)  

General Outcomes  
Links

General Education  
General Education Outcomes

Communication Skills  
Communication Skills (CM): To include effective development, interpretation and expression of ideas through written, oral and visual communication

Career Entry Skills  
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment
1.4.4 Measure of Success

80% of the evaluated students will demonstrate an ability of 75% mastery of the objective.
Program Name: BMGT.1341
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
BMGT 1341, Business Ethics

1.1 Division-Department
Business and Office Administration

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
The student will be able to differentiate the type of stakeholders and analyze the interactions between an organization and its primary and secondary stakeholders

1.4.2 Learning Activities
Utilizing a stakeholder model, students will identify stakeholders of a given company, categorize each as primary or secondary, and analyze the organizations level of social responsibility in a case analysis.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

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1.4.4 Measure of Success
70% of the evaluated students will demonstrate an ability of 70% mastery of the objective.
Program Name: BUSG.1301
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
BUSG 1301, Introduction to Business

1.1 Division-Department
Business and Computer Science

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Describe the major forms of business ownership available to a new start-up business.

1.4.2 Learning Activities
Students will choose one of the five business ideas and prepare an individual report that explains the form of ownership your business should take and why. Also, create an outline of a business plan for the selected business idea.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
75% of the evaluated students will demonstrate an ability of 70% mastery of the objective.
1 Course
BUSG 2309, Small Business Management

1.1 Division-Department
Business and Computer Science - Management

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Students will prepare a business plan which can be applied to an existing, expanded or a new venture. A new venture will need to determine the location plan, the marketing plan, the organizational plan, the financial plan and the exit or the harvest plan.

1.4.2 Learning Activities
Students will prepare a business plan for a new start-up business that matches their skills and experience or an existing or expanded business venture. Utilize the Chapter 6, Exhibit 6.4 Business Plan Outline to focus on the major segments of the business plan, marketing plan, organizational plan, the financial plan and the exit/harvest plan.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success

75% of the evaluated students will demonstrate an ability of 70% mastery of the objective.
Program Name: Certificate - Nursing Assistant/ Aide and Patient Care Technology (Health Occupations)
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course PCT Semester

1.1 Division-Department Health Occupations

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome Delegation - Role of the PCT

1.4.1 Student Learning Outcomes
By the end of the PCT program, the student will be able to demonstrate knowledge of task-oriented duties and skills that can legally be delegated by the RN to the PCT.

1.4.2 Learning Activities
Implement the curriculum for the PCT program in class, skills and clinicals including role-playing activities related to delegation.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
Eighty percent of the students will score 90% or higher on the subtest of items that relate to duties and skills that can be delegated by the RN to the PCT in fall and spring classes.

1.5 Measured Outcome Disease Processes - Core knowledge
1.5.1 Student Learning Outcomes
By the end of the PCT program, the student will be able to demonstrate a basic understanding of commonly occurring disease processes.

1.5.2 Learning Activities
Implement the curriculum for the PCT program in class, skills and clinical.

1.5.3 Core Objective (LINK to selection)

General Outcomes
Links
General Education

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.5.4 Measure of Success
Eighty percent of the students will score 80% or higher on the subtest of items on the PCT final that relate to commonly occurring disease processes in fall and spring.
Program Name: Certificate - Vocational Nursing (Health Occupations)
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
VNSG 1231 Pharmacology

1.1 Division-Department
Health Occupations

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome
Pharmacology

1.4.1 Student Learning Outcomes
By the end of VNSG 1231 in Level I, the student will be able to identify properties, effects and principles of pharmacotherapeutic agents.

1.4.2 Learning Activities
Implement curriculum for VNSG 1231 through lectures and videos and in med administration in the skills lab. Will do practice math questions in class. Reinforcement will occur during medication administration in clinical.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
Seventy-five percent of the students will score at or above national average on the ATI Pharmacology test on the first attempt.

2 Course
VNSG 1234 Pediatrics

2.1 Division-Department
Health Occupations

2.2 Course Type
WECM Course (nonTransfer)

2.3 Required General Education Outcomes (LINK to selection)

General Outcomes
Links

General Education
Outcomes

Career Entry Skills
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

2.4 Measured Outcome
Pediatric nursing

2.4.1 Student Learning Outcomes
By the end of VNSG 1234 in Level II, the student will be able to utilize the nursing process to assist in planning for the well or ill child.

2.4.2 Learning Activities
Implement curriculum for VNSG 1234 through lectures and audiovisuals and computer simulations. Experiences with pediatric patients in the clinical course will help to reinforce this material.

2.4.3 Core Objective (LINK to selection)

General Outcomes
Links

General Education
Outcomes

Career Entry Skills
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

2.4.4 Measure of Success
Seventy-five percent of the students will score at or above national average on the ATI PN Nursing Care of Children test on the first attempt.

3 Course
VNSG 1230 Maternal-Neonatal Nursing

3.1 Division-Department
Health Occupations

3.2 Course Type
WECM Course (nonTransfer)

3.3 Required General Education Outcomes (LINK to selection)

3.4 Measured Outcome
Maternal-newborn nursing

3.4.1 Student Learning Outcomes
By the end of VNSG 1230 in Level II, the student will be able to utilize the nursing process to assist in planning for the childbearing family.

3.4.2 Learning Activities
Implement curriculum for VNSG 1230 through lectures and videos and computer simulation. Experiences with maternity patients in the clinical course will help to reinforce this material.

3.4.3 Core Objective (LINK to selection)

General Outcomes
Links

General Education
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

3.4.4 Measure of Success
Seventy-five percent of the students will score at or above national average on the ATI PN Maternal/newborn nursing test on the first attempt.

4 Course
VNSG 1409 Nursing in Health & Illness II
VNSG 2510 Nursing in Health & Illness III

4.1 Division-Department
Health Occupations

4.2 Course Type
WECM Course (nonTransfer)

4.3 Required General Education Outcomes (LINK to selection)

General Outcomes
Links

General Education
4.4 Measured Outcome

Medical-Surgical Nursing

4.4.1 Student Learning Outcomes

By the end of Level III, the student will be able to utilize the nursing process to assist in caring for clients with common medical-surgical health problems.

4.4.2 Learning Activities

Implement curriculum for Levels I, II and III through lectures and videos and computer simulations. Experience with medical-surgical patients in the clinical courses will help to reinforce this material.

4.4.3 Core Objective (LINK to selection)

**General Outcomes**

**Links**

**General Education**

**General Education Outcomes**

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

4.4.4 Measure of Success

Seventy-five percent of the students will score at or above national average on the ATI PN Medical/Surgical test on the first attempt.

5 Course

VNSG 1136 Mental Health

5.1 Division-Department

Health Occupations

5.2 Course Type

WECM Course (nonTransfer)

5.3 Required General Education Outcomes (LINK to selection)

**General Outcomes**

**Links**

**General Education**

**General Education Outcomes**

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation
5.4 Measured Outcome
Mental Health Nursing

5.4.1 Student Learning Outcomes
By the end of Level III, the student will be able to identify mental illness, and treatment of common abnormal patterns of behavior and related nursing interventions.

5.4.2 Learning Activities
Implement curriculum for Level III through lectures and videos and computer simulations.

5.4.3 Core Objective (LINK to selection)

General Outcomes

Links

General
Education

General Education Outcomes

Career Entry Skills

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

5.4.4 Measure of Success
Seventy-five percent of the students will score at or above national average on the ATI PN CAP Mental Health test on the first attempt.

6 Course
VNSG 1400 Nursing in Health & Illness I

6.1 Division-Department
Health Occupations

6.2 Course Type
WECM Course (nonTransfer)

6.3 Required General Education Outcomes (LINK to selection)

General Outcomes

Links

General Education

General Education Outcomes

Career Entry Skills

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

6.4 Measured Outcome
Nursing Fundamentals
6.4.1 Student Learning Outcomes
By the end of Level I, the student will be able to identify basic interventions to support the client and family during life stages including death & dying.

6.4.2 Learning Activities
Implement Level I curriculum in class, skills and clinical, incorporating changes decided on at the last VN faculty meeting.

6.4.3 Core Objective (LINK to selection)

General Outcomes

Links

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employer in a target occupation

6.4.4 Measure of Success
Seventy-five percent of the students will score at or above national average on the ATI Fundamentals diagnostic test.

7 Course
VNSG 1119 Leadership and Professional Development
Capstone

7.1 Division-Department
Health Occupations

7.2 Course Type
WECM Course (nonTransfer)

7.3 Required General Education Outcomes (LINK to selection)

General Outcomes

Links

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

7.4 Measured Outcome
Nursing Process - Capstone

7.4.1 Student Learning Outcomes
By the end of the VN program, the student will be able to utilize the nursing process in care for clients with common health problems.
7.4.2 Learning Activities
Implement entire curriculum in class, skills and clinical, incorporating changes decided on at the last VN faculty meeting.

7.4.3 Core Objective (LINK to selection)

General Outcomes
Links

General Education Outcomes

Career Entry Skills
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

7.4.4 Measure of Success
Seventy-five percent of the students will score at or above the national average on the ATI comprehensive diagnostic test.
1 Course  Adult Education and Literacy (AEL)
The Adult Education and Literacy grant is managed by the Texas Workforce Commission (TWC). All course information is tracked in TWC’s data system called TEAMS (Texas Educating Adults Management System),

1.1 Division-Department  Continuing and Workforce Education

1.2 Course Type
Academic General Education Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)
N/A

1.4 Measured Outcome
Adults entering the GED Preparation course are expected to make significant gains in their abilities to improve written communication skills for passing the Reasoning Language Arts (RLA) GED test; for employment, and real life occurrences in a clear and concise manner. Skills addressed in this coursework include understanding the writing assignment; gathering ideas; organizing; writing topic sentences and paragraphs; writing introductory, body, developing and concluding paragraphs; evaluating the message; revision and editing; and an understanding of how written communication helps resolve matters that arise in real life.

1.4.1 Student Learning Outcomes
Students will demonstrate mastery of writing skills by being able (a) write a good essay (b) write memorandur for the workplace (c) write letters to address real life problems with the goal of resolution. Students will demonstrate in these three areas their knowledge of planning, organizing, writing, evaluating and revision. 63% of students will demonstrate gains in writing/language abilities in a Program Year (PY).

1.4.2 Learning Activities
Oral and Written Communication (CM): To communicate clearly and effectively in both oral and written English focusing on interpretation and expression of ideas through written, oral, and visual communication.

1.4.3 Core Objective (LINK to selection)
N/A

1.4.4 Measure of Success
By introducing the student to proper planning, organizing, writing, evaluating and revision techniques, the student will be able to communicate well and express ideas well through written, oral, and visual communication. Students will develop skills and become engaged learners as they work their way through project-based and designed-based assignments that address employment and everyday needs. Students will enhance their computer based knowledge by utilizing digital learning programs and by producing assignments with computers preparing them to pass entry level tests such as the Computer Based Test (CBT) GED.
1 Course

AUMT 1005, Introduction to Automotive Technology

1.1 Division-Department
Automotive Technology TDCJ

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

| General Education Outcomes | Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation |

1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Explain and demonstrate safety as it applies to the automotive industry.

1.4.2 Learning Activities
Students will read chapter 2.

Students will attend all lectures.

Students will be tested on information obtained by reading chapter 2 and the lectures.

1.4.3 Core Objective (LINK to selection)

1.4.4 Measure of Success
80% of students will receive a minimum score of 70 on the test.

1.5 Measured Outcome
1.5.1 Student Learning Outcomes
Explain the use of MSDS materials.

1.5.2 Learning Activities
Students will read chapter 2.

Students will attend all lectures.

Students will be tested on information obtained by reading chapter 2 and the lectures.

1.5.3 Core Objective (LINK to selection)

General Outcomes
Links

General Education
General Education Outcomes

Career Entry Skills
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.5.4 Measure of Success
80% of students will receive a minimum score of 70 on the test.

1.6 Measured Outcome

1.6.1 Student Learning Outcomes
Name common automotive tools and equipment.

1.6.2 Learning Activities
Students will read chapter 3.

Students will attend all lectures.

Students will be tested on information obtained by reading chapter 3 and the lectures.

1.6.3 Core Objective (LINK to selection)

General Outcomes
Links

General Education
General Education Outcomes

Career Entry Skills
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.6.4 Measure of Success
80% of students will receive a minimum score of 70 on the test.
2 Course
AUMT 2017, Engine Performance Analyst I

2.1 Division-Department
Automotive Technology TDCJ

2.2 Course Type
WECM Course (nonTransfer)

2.3 Required General Education Outcomes (LINK to selection)

2.4 Measured Outcome

2.4.1 Student Learning Outcomes
Recognize the fundamentals of engine operation.

2.4.2 Learning Activities
Students will read chapter 5.
Students will attend all lectures.
Students will be tested on information obtained by reading chapter 5 and the lectures.

2.4.3 Core Objective (LINK to selection)

2.4.4 Measure of Success
80% of students will receive a minimum score of 70 on the test.

2.5 Measured Outcome
2.5.1 Student Learning Outcomes
Identify electrical and electronic differences.

2.5.2 Learning Activities
Students will read chapter 6.

Students will attend all lectures.

Students will be tested on information obtained by reading chapter 6 and the lectures.

2.5.3 Core Objective (LINK to selection)

General Outcomes
Links

General Education
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

2.5.4 Measure of Success
80% of students will receive a minimum score of 70 on the test.

2.6 Measured Outcome

2.6.1 Student Learning Outcomes
Accurately describe the typical ignition system.

2.6.2 Learning Activities
Students will read chapter 8.

Students will attend all lectures.

Students will be tested on information obtained by reading chapter 8 and the lectures.

2.6.3 Core Objective (LINK to selection)

General Outcomes
Links

General Education
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

2.6.4 Measure of Success
80% of students will receive a minimum score of 70 on the test.
3 Course
AUMT 2034, Engine Performance Analyst II

3.1 Division-Department
Automotive Technology TDCJ

3.2 Course Type
WECM Course (nonTransfer)

3.3 Required General Education Outcomes (LINK to selection)

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3.4 Measured Outcome

3.4.1 Student Learning Outcomes
Explain the operation, diagnosis, and repair of emission control systems.

3.4.2 Learning Activities
Students will read chapter 19.

Students will attend all lectures.

Students will be tested on information obtained by reading chapter 19 and the lectures.

3.4.3 Core Objective (LINK to selection)

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</table>

3.4.4 Measure of Success
80% of students will receive a minimum score of 70 on the test.

3.5 Measured Outcome

3.5.1 Student Learning Outcomes
Explain the operation, diagnosis, and repair of computerized engine control systems.

3.5.2 Learning Activities
Students will read chapter 15.
Students will attend all lectures.
Students will be tested on information obtained by reading chapter 15 and the lectures.

3.5.3 Core Objective (LINK to selection)

General Outcomes
Links

General Education

General Education Outcomes

Career Entry Skills: Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employer in a target occupation

3.5.4 Measure of Success
80% of students will receive a minimum score of 70 on the test.

3.6 Measured Outcome

3.6.1 Student Learning Outcomes
Explain the operation, diagnosis, and repair of advanced ignition and fuel systems.

3.6.2 Learning Activities
Students will read chapters 16 and 17.
Students will attend all lectures.
Students will be tested on information obtained by reading chapter 16 and 17 and the lectures.

3.6.3 Core Objective (LINK to selection)

General Outcomes
Links

General Education

General Education Outcomes

Career Entry Skills: Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employer in a target occupation

3.6.4 Measure of Success
80% of students will receive a minimum score of 70 on the test.
Program Name: Certificate Non-Credit - Business Computer (TDCJ)
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
ITSC 1001, Introduction to Computers

1.1 Division-Department
TDCJ - Business Computer Information

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection) Learning Outcomes
Student Learning Outcomes: Have a basic understanding of computer hardware, software, networks and how these tools can be used to achieve business goals.

General Outcomes Links

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<td>Career Entry Skills</td>
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</table>

1.4 Measured Outcome Measured Outcome
Measure of Success: 75% of the evaluated students will demonstrate an ability of 75% mastery of the objective as demonstrated by test scores.

1.4.1 Student Learning Outcomes
Given a workplace scenario requiring a written solution, assess the communication purpose and then prepare the materials that achieve the goal efficiently and effectively.

1.4.2 Learning Activities
Read all of the information in each chapter in the text provided and complete the test with a passing score of ≥ 70%.

1.4.3 Core Objective (LINK to selection)
Have a basic understanding of computer hardware, software, networks and how these tools can be used to achieve business goals.
Technology (TECH): Students will be able to utilize computer based technology in accessing information, solving problems and communicating.

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation.

1.4.4 Measure of Success
70% of the evaluated students will demonstrate an ability of 70% mastery of the objective.

2 Course
ITSE 1009, Integrated Software Applications I

2.1 Division-Department
TDCJ - Business Computer Information

2.2 Course Type
WECM Course (nonTransfer)

2.3 Required General Education Outcomes (LINK to selection) Learning Outcomes
Student Learning Outcomes: To understand and practice how to use Microsoft Word practices to produce written materials for general business use.

General Outcomes

Communication Skills (CM): To include effective development, interpretation and expression of ideas through written, oral and visual communication.

Technology (TECH): Students will be able to utilize computer based technology in accessing information, solving problems and communicating.

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation.

2.4 Measured Outcome
Measure of Success: 75% of the evaluated students will demonstrate an ability of 75% mastery of the objective as demonstrated by saved class work and test scores.

2.4.1 Student Learning Outcomes
Given a workplace scenario requiring a written solution, assess the communication purpose and then prepare the materials that achieve the goal efficiently and effectively.

2.4.2 Learning Activities
Edit an existing letter to include a table detailing specific information. Including a database for completion of a mail merge.

2.4.3 Core Objective (LINK to selection)
To understand and practice how to use Microsoft Word practices to produce written materials for general
business use.

General Outcomes

Links

General Education Outcomes

Communication Skills

Communication Skills (CM): To include effective development, interpretation and expression of ideas through written, oral and visual communication

Technology

Technology (TECH): Students will be able to utilize computer based technology in accessing information, solving problems and communicating

Career Entry Skills

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

2.4.4 Measure of Success

70% of the evaluated students will demonstrate an ability of 70% mastery of the objective.

3 Course

ITSC 2021, Integrated Software Applications II

3.1 Division-Department

TDCJ - Business Computer Information

3.2 Course Type

WECM Course (nonTransfer)

3.3 Required General Education Outcomes (LINK to selection)

Student Learning Outcomes: To understand and practice how to use Microsoft Excel practices to produce spreadsheet materials for general business use.

General Outcomes

Links

General Education Outcomes

Communication Skills

Communication Skills (CM): To include effective development, interpretation and expression of ideas through written, oral and visual communication

Technology

Technology (TECH): Students will be able to utilize computer based technology in accessing information, solving problems and communicating

Career Entry Skills

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

3.4 Measured Outcome

Measure of Success: 75% of the evaluated students will demonstrate an ability of 75% mastery of the objective.

3.4.1 Student Learning Outcomes

Given a workplace scenario requiring a written solution, assess the communication purpose and then prepare the materials that achieve the goal efficiently and effectively.
3.4.2 Learning Activities
Copy and Paste data and Insert WordArt in a Training Scores workbook. Manage Multiple worksheets in a projected Earnings Workbook. Create and Format a line chart add a pie chart to a separate worksheet named pie chart then, link pie chart to projected earnings worksheet.

3.4.3 Core Objective (LINK to selection)
To understand and practice how to use Microsoft Excel practices to produce spreadsheet materials for general business use.

General Outcomes

Links

General Education Outcomes

Communication Skills

Communication Skills (CM): To include effective development, interpretation and expression of ideas through written, oral and visual communication

Technology

Technology (TECH): Students will be able to utilize computer based technology in accessing information, solving problems and communicating

Career Entry Skills

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

3.4.4 Measure of Success
75% of the evaluated students will demonstrate an ability of 70% mastery of the objective.

4 Course
ITSC 2031, Integrated Software Applications III

4.1 Division-Department
TDCJ - Business Computer Information

4.2 Course Type
WECM Course (nonTransfer)

4.3 Required General Education Outcomes (LINK to selection)
To understand and practice how to use Microsoft PowerPoint practices to produce presentation materials for general business use.

General Outcomes

Links

General Education Outcomes

Communication Skills

Communication Skills (CM): To include effective development, interpretation and expression of ideas through written, oral and visual communication

Technology

Technology (TECH): Students will be able to utilize computer based technology in accessing information, solving problems and communicating

Career Entry Skills

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation
4.4 Measured Outcome
Measure of Success: 75% of the evaluated students will demonstrate an ability of 75% mastery of the objective.

4.4.1 Student Learning Outcomes
Given a workplace scenario requiring a written solution, assess the communication purpose and then prepare the materials that achieve the goal efficiently and effectively.

4.4.2 Learning Activities
Edit existing presentation to include a table and a chart detailing specific information. Including a spreadsheet for completion of a data merge. Link chart to Presentations Written instructions. These instructions are located in the PowerPoint section of the Microsoft 2010 text book.

4.4.3 Core Objective (LINK to selection)
To understand and practice how to use Microsoft PowerPoint practices to produce presentation materials for general business use.

General Outcomes
Links
General Education Outcomes
Communication Skills (CM): To include effective development, interpretation and expression of ideas through written, oral and visual communication
Technology (TECH): Students will be able to utilize computer based technology in accessing information, solving problems and communicating
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employer in a target occupation

4.4.4 Measure of Success
80% of the evaluated students will demonstrate an ability of 75% mastery of the objective.

5 Course
ITSE 1011, Web Page Programming

5.1 Division-Department
TDCJ - Business Computer Information

5.2 Course Type
WECM Course (nonTransfer)

5.3 Required General Education Outcomes (LINK to selection)
Recognize and create professional business Web sites that demonstrate accurate formats and ideas expressed in appealing, clear, and concise order.

General Outcomes
Links
General
5.4 Measured Outcome

70% of the evaluated students will demonstrate an ability of 70% mastery of the objective.

5.4.1 Student Learning Outcomes

Recognize and create professional business Web sites that demonstrate accurate formats and ideas expressed in appealing, clear, and concise order.

5.4.2 Learning Activities

Using written instructions students will create a web site that will be appealing to the viewer and easy to modify when the need arises. This site will be easy to navigate without confusion.

5.4.3 Core Objective (LINK to selection)

Recognize and create professional business Web sites that demonstrate accurate formats and ideas expressed in appealing, clear, and concise order.

5.4.4 Measure of Success

80% of the evaluated students will demonstrate an ability of 70% mastery of the objective. 

6 Course
ARTC1017 DESIGN COMMUNICATIONS I

6.1 Division-Department
TDCJ - Business Computer Information

6.2 Course Type
WECM Course (nonTransfer)

6.3 Required General Education Outcomes (LINK to selection)
The study of Graphic Design and introduction into the use of Graphic Design software with the use of an open source application from Blender.Org.
This class will be introduced to Blender 2.78c which is the latest Blender version that is not in a BETA state.

General Outcomes
Links

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6.4 Measured Outcome
75% of the evaluated students will demonstrate an ability of 75% mastery of the objective.

6.4.1 Student Learning Outcomes
Given a workplace scenario requiring a design solution, which assess the communication purpose and then prepare the materials that achieve the goal efficiently and effectively.

6.4.2 Learning Activities
The students will be given the task of creating a solid model of an inanimate object, in this case a mechanical robot. Along with the task of creating a texture and applying the texture to the object. The last step will be to add the "Bones" to enable the animation step. Bones are the objects that actually allow an inanimate object to become animated.

6.4.3 Core Objective (LINK to selection)
75% of the evaluated students will demonstrate an ability of 75% mastery of the objective.

General Outcomes
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Career Entry Skills

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation.

6.4.4 Measure of Success

75% of the evaluated students will demonstrate an ability of 70% mastery of the objective.
Program Name: Certificate Non-Credit - Construction/Carpentry (TDCJ)
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
CONSTRUCTION CARPENTRY - CVN101

1.1 Division-Department
TDCJ-ID, CONSTRUCTION CARPENTRY

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)
STUDENTS WILL LEARN TO SAFELY USE A STEP LADDER.

General Outcomes
Links

Career Entry Skills
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.4 Measured Outcome

1.4.1 Student Learning Outcomes
85% or more of the STUDENTS WILL LEARN TO SAFELY USE A STEP LADDER.

1.4.2 Learning Activities
THROUGH LECTURE, DEMONSTRATION AND DISCUSSION THE SAFE USE OF A STEP LADDER WILL BE LEARNED BY THE STUDENTS.

1.4.3 Core Objective (LINK to selection)

General Outcomes
Links

Career Entry Skills
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.4.4 Measure of Success
85% OF THE STUDENTS WILL SCORE 85% OR BETTER ON THE DEMONSTRATION TEST FOR SAFE STEP LADDER USAGE.
Program Name: Certificate Non-Credit - Mason/Masonry Education (TDCJ)
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course CV 002, Masonry/Bricklaying
CV 002, Masonry/Bricklaying

1.1 Division-Department TDCJ/Masonry
TDCJ/Masonry

1.2 Course Type
WE CM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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<td>Teamwork (TW): To include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal</td>
</tr>
<tr>
<td>Personal Responsibility</td>
<td>Personal Responsibility (PR): To include the ability to connect choices, actions, and consequences to ethical decision-making</td>
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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Introduction to masonry including safety, tools and equipment, theory, terminology, federal and state guideline

1.4.2 Learning Activities
Demonstrate masonry safety practices; discuss state and federal guidelines for masonry work; identify, use, and maintain tools and equipment; calculate requirements; mix and spread mortar; use building; and lay brick/block and stone by the use of video aid training, written test and hands on training

1.4.3 Core Objective (LINK to selection)

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Personal Responsibility (PR): To include the ability to connect choices, actions, and consequences to ethical decision-making

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.4.4 Measure of Success
90% to 100% passing grade.

1.5 Measured Outcome

1.5.1 Student Learning Outcomes
A continuation of masonry I with emphasis on hands-on application of masonry concepts and theories.

1.5.2 Learning Activities
The student will relate masonry concepts and theories; identify, use, and maintain tools and equipment; lay brick, block, and stone.

1.5.3 Core Objective (LINK to selection)

General Outcomes

Links

General Education Outcomes

Communication Skills
Communication Skills (CM): To include effective development, interpretation and expression of ideas through written, oral and visual communication

Teamwork
Teamwork (TW): To include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

Personal Responsibility
Personal Responsibility (PR): To include the ability to connect choices, actions, and consequences to ethical decision-making

Career Entry Skills
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.5.4 Measure of Success
90% to 100% passing grade.
Program Name: CETT.1341
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
CETT 1341, Solid State Circuits

1.1 Division-Department
TDCJ - Electronics Technology

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes
Links

General Education  General Education Outcomes
Empirical and Quantitative Skills  Empirical and Quantitative Skills (EQS): To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
Technology  Technology (TECH): Students will be able to utilize computer based technology in accessing information, solving problems and communicating
Career Entry Skills  Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.4 Measured Outcome

1.4.1 Student Learning Outcomes
The student will be able to perform an analysis of various solid state diode power-supply circuits and utilize the proper test instruments to perform hands on testing to verify the calculations are correct, reading and understanding the schematics given.

1.4.2 Learning Activities
Define formulas related to various power-supply circuits and their performance. Build various power supply circuits, reading and understanding schematics, mathematical analysis and hands on measurements to verify calculations and readings.

1.4.3 Core Objective (LINK to selection)

General Outcomes
Links

General Education  General Education Outcomes
Empirical and Quantitative Skills  Empirical and Quantitative Skills (EQS): To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
Technology  Technology (TECH): Students will be able to utilize computer based technology in accessing information, solving problems and communicating
Career Entry Skills

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.4.4 Measure of Success
70% of the evaluated students will demonstrate an ability of 70% mastery of the objective.

1.5 Measured Outcome

1.5.1 Student Learning Outcomes
The student will be able to perform an analysis of small-signal transistor amplifier circuits and utilize the proper test instruments to perform hands on testing to verify the calculations are correct, reading and understanding the schematics given.

1.5.2 Learning Activities
Define formulas related to various small-signal transistor amplifiers and their performance. Build various transistor amplifier circuits, reading and understanding schematics, mathematical analysis and hands on measurements to verify calculations and readings.

1.5.3 Core Objective (LINK to selection)

1.5.4 Measure of Success
70% of the evaluated students will demonstrate an ability of 70% mastery of the objective.

1.6 Measured Outcome

1.6.1 Student Learning Outcomes
The student will be able to perform an analysis of various differential and operational amplifier circuits and utilize the proper test instruments to perform hands on testing to verify the calculations are correct, reading an understanding the schematics given.

1.6.2 Learning Activities
Define formulas related to various differential and operational amplifier circuits and their performance. Build various differential and operational amplifier circuits, reading and understanding schematics, mathematical analysis and hands on measurements to verify calculations and reading.

1.6.3 Core Objective (LINK to selection)
### General Outcomes

#### Links

<table>
<thead>
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#### 1.6.4 Measure of Success

70% of the evaluated students will demonstrate an ability of 70% mastery of the objective.
Program Name: CETT.1409  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course  
CETT 1509, DC-AC Circuits

1.1 Division-Department  
TDCJ - Electronics Technology

1.2 Course Type  
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes  
Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes  
The student will be able to perform a calculated analysis of series DC circuits and utilize the proper test instruments to perform hands on testing to verify the calculations are correct, reading and understanding the schematics given.

1.4.2 Learning Activities  
Define formulas related to series circuits, including ohms law, Kirchhoffs voltage law, current in a series circuit and total resistance in a series circuit. Build series resistive circuits reading and understanding schematics, mathematical analysis of series circuits and hands on measurements to verify calculations and readings.

1.4.3 Core Objective (LINK to selection)

General Outcomes  
Links

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Career Entry Skills

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.4.4 Measure of Success

70% of the evaluated students will demonstrate an ability of 70% mastery of the objective.

1.5 Measured Outcome

1.5.1 Student Learning Outcomes

The student will be able to perform a calculated analysis of parallel DC circuits and utilize the proper test instruments to perform hands on testing to verify the calculations are correct, reading and understanding the schematics given.

1.5.2 Learning Activities

Define formulas related to parallel circuits, including ohms law, Kirchhoffs current law, voltage in a parallel circuit and equivalent resistance in a parallel circuit. Build parallel resistive circuits reading and understanding schematics, mathematical analysis of parallel circuits and hands on measurements to verify calculations and readings.

1.5.3 Core Objective (LINK to selection)

General Outcomes

Links

General Education

Outcomes

Empirical and Quantitative Skills

Empirical and Quantitative Skills (EQS): To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.

Technology

Technology (TECH): Students will be able to utilize computer based technology in accessing information, solving problems and communicating.

Career Entry Skills

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation.

1.5.4 Measure of Success

70% of the evaluated students will demonstrate an ability of 70% mastery of the objective.

1.6 Measured Outcome

1.6.1 Student Learning Outcomes

The student will be able to perform a calculated analysis of series/parallel AC resistive/capacitive circuits and utilize the proper test instruments to perform hands on testing to verify the calculations are correct, reading and understanding the schematics given.

1.6.2 Learning Activities

Define ohms law concerning AC circuits verses DC circuits. Verify different AC waveforms understanding and utilizing the DMM, oscilloscope and function generator. Build series/parallel resistive/capacitive circuits reading and understanding schematics, mathematical analysis of series/parallel circuits and hands on measurements to verify calculations and readings.
1.6.3 Core Objective (LINK to selection)

General Outcomes
Links

General Education Outcomes

Empirical and Quantitative Skills (EQS): To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions

Technology (TECH): Students will be able to utilize computer based technology in accessing information, solving problems and communicating

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.6.4 Measure of Success

70% of the evaluated students will demonstrate an ability of 70% mastery of the objective
Program Name: CETT.1415  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course  
CETT 1415, Digital Applications

1.1 Division-Department  
TDCJ - Electronics Technology

1.2 Course Type  
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes  
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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
The student will be able to perform a calculated analysis of various logic gates. The student will build circuits according to the schematics supplied, as well as schematics drawn by the student, verifying truth tables and Boolean expressions by performing tests using proper test instruments.

1.4.2 Learning Activities
Define Boolean expressions assigned to each logic gate and performing the equation mathematically to verify readings verses calculations. Perform hands on building, drawing, and troubleshooting of circuits consisting of logic gates using the DMM, oscilloscope, and logic probe.

1.4.3 Core Objective (LINK to selection)

General Outcomes  
Links

General Education  
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Career Entry Skills: Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation.

1.4.4 Measure of Success
70% of the evaluated students will demonstrate an ability of 70% mastery of the objective.

1.5 Measured Outcome
The student will be able to assemble, draw, verify displays and troubleshoot seven-segment display systems. The student will understand the operation of encoders, decoders, LED, and LCD digital displays.

1.5.1 Student Learning Outcomes

1.5.2 Learning Activities
Define the function of encoders and decoders in display systems and understand the logic levels needed for LED and LCD displays. Perform hands on building, drawing, and troubleshooting of circuits consisting of seven-segment displays using the DMM, oscilloscope, and logic probe.

1.5.3 Core Objective (LINK to selection)

General Outcomes
Links
General Education
Outcomes
Empirical and Quantitative Skills
Technology
Career Entry Skills
Empirical and Quantitative Skills (EQS): To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
Technology (TECH): Students will be able to utilize computer based technology in accessing information, solving problems and communicating
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.5.4 Measure of Success
70% of the evaluated students will demonstrate an ability of 70% mastery of the objective.

1.6 Measured Outcome

1.6.1 Student Learning Outcomes
The student will be able to assemble, draw, verify displays and troubleshoot ripple up/down counters. The student will understand the operation of the J-K flip-flops and their use as up/down counters in digital systems.

1.6.2 Learning Activities
Define the counting sequence based on the modulus of various counters for both binary and decimal displays. Perform hands on building, drawing, and troubleshooting of circuits consisting of counters using the DMM, oscilloscope, and logic probe.

1.6.3 Core Objective (LINK to selection)
General Outcomes
Links
General Education
Outcomes

Empirical and Quantitative Skills: To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
Technology (TECH): Students will be able to utilize computer based technology in accessing information, solving problems and communicating
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employmen in a target occupation

1.6.4 Measure of Success
70% of the evaluated students will demonstrate an ability of 70% mastery of the objective.

1.7 Measured Outcome

1.7.1 Student Learning Outcomes
The student will be able to assemble, draw, verify displays and troubleshoot digital Arithmetic circuits. The student will understand the operation of adders and subtractors in digital circuits and how to verify proper outputs.

1.7.2 Learning Activities
Define the use of adders and subtractors and mathematically perform binary addition and subtraction to verify outputs. Perform hands on building, drawing, and troubleshooting of circuits consisting of calculations using the DMM, and logic probe.

1.7.3 Core Objective (LINK to selection)

General Outcomes
Links
General Education
Outcomes

Empirical and Quantitative Skills: To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
Technology (TECH): Students will be able to utilize computer based technology in accessing information, solving problems and communicating
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employmen in a target occupation

1.7.4 Measure of Success
70% of the evaluated students will demonstrate an ability of 70% mastery of the objective.
Program Name: CHEM.1405
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
CHEM 1405, Introductory Chemistry I

1.1 Division-Department
Science and Mathematics - Chemistry

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Conduct basic laboratory experiments with proper laboratory techniques.

1.4.2 Learning Activities
The student will work in small groups to carry out or conduct an experiment and evaluate the reasonableness their results. An oral or written presentation will be required and the accuracy, depth of content, and/or the connection of the content with the main topic will be assessed. The student will also be assessed on the synthesis of the project within the group.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

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Quantitative Skills

Teamwork

1.4.4 Measure of Success

The benchmark for success is 70%. The goal is 75% of students achieve success.
Program Name: CHEM.1406
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
CHEM 1406, Introductory Chemistry I (for Allied Health)

1.1 Division-Department
Science and Mathematics - Chemistry

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Conduct basic laboratory experiments with proper laboratory techniques.

1.4.2 Learning Activities
The student will work in small groups to carry out or conduct an experiment and evaluate the reasonableness of their results. An oral or written presentation will be required and the accuracy, depth of content, and/or the connection of the content with the main topic will be assessed. The student will also be assessed on the synthesis of the project within the group.

1.4.3 Core Objective (LINK to selection)

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Quantitative Skills

Teamwork (TW): To include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

1.4.4 Measure of Success

Benchmark 70%. Goal is 70% achieve benchmark.
Program Name: CHEM.1407
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
CHEM 1407, Introductory Chemistry II

1.1 Division-Department
Science and Mathematics - Chemistry

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

General Education  General Education Outcomes

Critical Thinking  Critical Thinking Skills (CT): To include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
Communication Skills  Communication Skills (CM): To include effective development, interpretation and expression of ideas through written, oral and visual communication
Empirical and Quantitative Skills  Empirical and Quantitative Skills (EQS): To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
Teamwork  Teamwork (TW): To include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

1.4 Measured Outcome

1.4.1 Student Learning Outcomes
The student will apply scientific theories to analyze data collected in lab and report results in written form.

1.4.2 Learning Activities
The student will work in small groups to carry out or conduct an experiment and evaluate the reasonableness their results. An oral or written presentation will be required and the accuracy, depth of content, and/or the connection of the content with the main topic will be assessed. The student will also be assessed on the synthesis of the project within the group.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

General Education  General Education Outcomes

Critical Thinking  Critical Thinking Skills (CT): To include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
Communication Skills  Communication Skills (CM): To include effective development, interpretation and expression of ideas through written, oral and visual communication
Empirical and Quantitative Skills  Empirical and Quantitative Skills (EQS): To include the manipulation and analysis
Quantitative Skills of numerical data or observable facts resulting in informed conclusions

Teamwork (TW): To include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

1.4.4 Measure of Success
Benchmark 70%. Goal is 75% reach benchmark.
Program Name: CHEM.1411
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
CHEM 1411, General Chemistry I

1.1 Division-Department
Science and Mathematics - Chemistry

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Conduct basic laboratory experiments with proper laboratory techniques.

1.4.2 Learning Activities
The student will work in a small team or group to develop an oral or written presentation solving a problem or carrying out an experiment in which essential information is identified to connect and apply the learning objective to a new situation and evaluating the reasonableness of the solution.
Safely perform lab experiments in groups of 2 to 4 students.
Participation of each student in the lab experiment will be required.
Student will be required to analyze data and relate results to theory discussed in lecture.
Assessment will be based on the accuracy or depth of content/synthesis of the final project or performance and whether the team or group completed the problem.

1.4.3 Core Objective (LINK to selection)

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Teamwork
Teamwork (TW): To include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

1.4.4 Measure of Success
Benchmark is 70%. Goal is 75% achieve benchmark.
1 Course
CHEM 1412, General Chemistry II

1.1 Division-Department
Science and Mathematics - Chemistry

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Conduct basic laboratory experiments with proper laboratory techniques.

1.4.2 Learning Activities
Work in a small team or group to safely perform lab experiments in groups of 2 to 4 students. Participation of each student in the lab experiment will be required. Student will be required to analyze data and relate results to theory discussed in lecture. The student will work in a small team or group to develop an oral or written presentation solving a problem or carrying out an experiment in which essential information is identified to connect and apply the learning objective to a new situation and evaluating the easonableness of the solution. Assessment will be based on the accuracy or depth of content or the final project or performance and whether the team or group completed the problem.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

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### 1.4.4 Measure of Success

Benchmark is 70%. Goal is 75% achieve benchmark.
Program Name: CHEM.2423  
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course  
CHEM 2423, Organic Chemistry I

1.1 Division-Department  
Science and Mathematics - Chemistry

1.2 Course Type  
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

**General Outcomes Links**

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes  
Utilize scientific tools such as glassware and analytical instruments to collect and analyze data.

1.4.2 Learning Activities  
Students will work in groups to prepare a written report analyzing the data given and answering questions given. The questions will cover solve problems, apply principles to a new situation, make corrections and generate alternative solutions. Papers will be graded for mechanics, structure, content, logic and accuracy. Teamwork will be evaluated on for participation, synthesis of work and sharing work.

1.4.3 Core Objective (LINK to selection)

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Quantitative Skills
  of numerical data or observable facts resulting in informed conclusions
Teamwork
  Teamwork (TW): To include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

1.4.4 Measure of Success
Benchmark: 70%. Goal is 75% achieve benchmark.
Program Name: CHEM.2425  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
CHEM 2425, Organic Chemistry II

1.1 Division-Department
Science and Mathematics - Chemistry

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Utilize scientific tools such as glassware and analytical instruments to collect and analyze data.

1.4.2 Learning Activities
Students will work in groups to prepare a written report analyzing the data given and answering questions given. The questions will cover solving problems, applying principles to a new situation, making corrections and generating alternative solutions. Papers will be graded for mechanics, structure, content, logic and accuracy. Teamwork will be evaluated on for participation, synthesis of work and sharing work.

1.4.3 Core Objective (LINK to selection)

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Quantitative Skills

Teamwork

Teamwork (TW): To include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

1.4.4 Measure of Success

Benchmarks: 70%. Goals: 75% achieve benchmark.
1 Course
COSC 1336, Programming Fundamentals I

1.1 Division-Department
Business and Computer Science - Computer Science

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Design, code and test a computer program that utilizes a logical statement

1.4.2 Learning Activities
By analyzing computer program specifications and requirement statements, draft a computer program using logical program syntax. Design, code, test and document a program that produces correct output using logical program statements.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success

65% of students evaluated will produce a correct, fully functional program using logical program statements.
1 Course
CRIJ 1301, Introduction To Criminal Justice

1.1 Division-Department
Career and Technology Criminal Justice

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Students will analyze the criminal justice process and the parties involved.

1.4.2 Learning Activities
Students will demonstrate their knowledge of the criminal justice system by distinguishing between the steps from arrest to trial and identifying the parties involved in reviews and written assignments.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
60% of evaluated students will score at least 75% in both review and written assignments, thereby
demonstrating critical thinking and career entry skills.
Program Name: CRIJ.1310  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
CRIJ 1310, Fundamentals Of Criminal Law

1.1 Division-Department
Career and Technology  Criminal Justice

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Students will be able to recognize the major penal offenses and penalties in Texas.

1.4.2 Learning Activities
Analyze fact situations to determine what offense has been committed in reviews; and in written assignments analyze the major offenses in Texas.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
60% of evaluated students will score at least 75% in both review and written assignments, thereby
demonstrating critical thinking and career entry skills.
1 Course
CRIJ 2328, Police Systems and Practices

1.1 Division-Department
Career and Technology  Criminal Justice

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Discuss and explain the establishment of organized police departments and the special problems with police departments.

1.4.2 Learning Activities
Reviews, assignments, tests and discussions will evaluate the outcomes based upon the developed Rubric.

1.4.3 Core Objective (LINK to selection)

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Personal Responsibility (PR): To include the ability to connect choices, actions, and consequences to ethical decision-making

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.4.4 Measure of Success
70/75
70% of students completing course will score 75 or higher based on rubric outcome.

1.5 Measured Outcome

1.5.1 Student Learning Outcomes
Discuss police discretion and the stress in policing

1.5.2 Learning Activities
Reviews, assignments, tests and discussions will evaluate the outcomes based upon the developed Rubric.

1.5.3 Core Objective (LINK to selection)

General Outcomes

General Education Outcomes

Critical Thinking
Critical Thinking Skills (CT): To include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information

Communication Skills
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Personal Responsibility
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Career Entry Skills
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.5.4 Measure of Success
70/75
70% of students completing course will score 75 or higher based on rubric outcome.

1.6 Measured Outcome

1.6.1 Student Learning Outcomes
Describe the traditional patrol methods and strategies for combating crime and explain how the Bill of Rights and the Supreme Court regulate police actions.

1.6.2 Learning Activities
Reviews, assignments, tests and discussions will evaluate the outcomes based upon the developed Rubric.

1.6.3 Core Objective (LINK to selection)
### General Outcomes

#### Links

#### General Education Outcomes

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#### 1.6.4 Measure of Success

70/75  
70% of students completing course will score 75 or higher based on rubric outcome.
Program Name: CSME.1430  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1  Course  
CSME 1430, Orientation to Nail Technology

1.1  Division-Department
Career and Technology - Manicure Technology

1.2  Course Type
WECM Course (nonTransfer)

1.3  Required General Education Outcomes (LINK to selection)

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1.4  Measured Outcome

1.4.1  Student Learning Outcomes
Properly Apply TDLR approve procedures to complete a manicure and pedicure

1.4.2  Learning Activities
Hands on demonstrations will be presented to students by Instructor in accordance with Texas Department of Licensing and Regulation. Students then will present their own demonstration to communicate skills obtained.

1.4.3  Core Objective (LINK to selection)

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1.4.4  Measure of Success
90% of students completing the Manicure program will be able to accurately perform a manicure and pedicure
compliance with TDLR guidelines to attain entry-level employment in a target occupation.

1.5 Measured Outcome

1.5.1 Student Learning Outcomes
Mastery of hand and arm manipulation and the importance of proper safety and sanitation application

1.5.2 Learning Activities
Classroom lectures and collective discussion will be used to help students understand the application process. Video streaming in conjunction with textbook theory will be used to reinforce understanding.

1.5.3 Core Objective (LINK to selection)

General Outcomes

Links

General Education

Outcomes

Critical Thinking

Career Entry Skills

Critical Thinking Skills (CT): To include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.5.4 Measure of Success

70% of students will complete textbook theory with 80% ability to accurately demonstrate workforce skills and evaluate creative thinking skills needed for entry-level employment.
Program Name: CSME.1431
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
CSME 1431, Principles of Nail Technology

1.1 Division-Department
Workforce Education - Manicure Technology

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Understand the importance of anatomy, physiology, and histology to the nail profession.

1.4.2 Learning Activities
Students will use online licensing preparation practice exams to self-test along with textbook and work book. Topic of study will be given to the class for research, and to prepare for an oral presentation

1.4.3 Core Objective (LINK to selection)

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Career Entry Skills

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employer in a target occupation

1.4.4 Measure of Success

70%/80%
70% of students completing the Manicure program will demonstrate academic skills and 80% will effectively demonstrate communication through an oral presentation

1.5 Measured Outcome

1.5.1 Student Learning Outcomes
Define tissue and identify the types of tissues found in the body

1.5.2 Learning Activities
Students will use online licensing preparation practice exams to self-test along with textbook and work book. Students will also prepare index card containing terminology of various types of tissues

1.5.3 Core Objective (LINK to selection)

General Outcomes Links

General Education General Education Outcomes

Technology Technology (TECH): Students will be able to utilize computer based technology in accessing information, solving problems and communicating

1.5.4 Measure of Success

70%/80%
70% of Students will complete the Manicure program and participate in use of online practice examination with 80% mastering of problem solving.

1.6 Measured Outcome

1.6.1 Student Learning Outcomes
Describe the structure and composition of the skin, disorders and prevention

1.6.2 Learning Activities
Students will create a columnar chart as a group project that will analyze skin structure.

1.6.3 Core Objective (LINK to selection)

General Outcomes Links

General Education General Education Outcomes

Teamwork Teamwork (TW): To include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.6.4 Measure of Success

70%/80%

70% of students will complete the chart as assigned demonstrating 80% mastery of academic skills and abilities used to design the project.
1 Course
CSME 1441, Principles of Nail Technology II

1.1 Division-Department
Workforce Education - Manicure Technology

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Understand laws, rules, proper sanitation, and universal precautions

1.4.2 Learning Activities
Students will use chapter review and workbook to complete as a group. Students will also use the Texas Department of Licensing and Regulation Laws and Rules book for Cosmetology as a study guide to prepare for final testing.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
70%/80%
70% of evaluated
Students will demonstrate academic skills and abilities with 80% mastery in communication and preparation for state board examination.

1.5 Measured Outcome

1.5.1 Student Learning Outcomes
Discuss the different forms of matter and how it relates to the body

1.5.2 Learning Activities
Student will participate in group experiments and classroom discussion

1.5.3 Core Objective (LINK to selection)

General Outcomes
Links
General Education General Education Outcomes
Communication Skills
Teamwork
Career Entry Skills

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Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employer in a target occupation

1.5.4 Measure of Success
70%/80%
70% of evaluated students will participate in experimentation and demonstrate 80% mastery in communicating the appearance and material of an object or objects in experiment.

1.6 Measured Outcome

1.6.1 Student Learning Outcomes
Describe the overexposure principle and its application to nail care and the body

1.6.2 Learning Activities
Milady text book and workbook chapters will be completed and adapted to lecture and classroom discussion. Visual and oral presentations will accompany.

1.6.3 Core Objective (LINK to selection)

General Outcomes
Communication Skills (CM): To include effective development, interpretation and expression of ideas through written, oral and visual communication

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.6.4 Measure of Success

70%/80%  
70% of students completing the Manicure program will demonstrate academic skills and 80% will effectively demonstrate workforce skills and abilities to obtain entry level employment.
1 Course
CSME 1453, Chemical Reformation and Related Theory

1.1 Division-Department
Workforce Education-Cosmetology

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome measure outcome
Student will be able to list the factors of the hair analysis for chemical texture services. Students will learn these factors through lecture and application on manikins. The students success will be measured by exam scores and visual analysis from instructors.

1.4.1 Student Learning Outcomes
Student will be able to list the factors of the hair analysis for chemical texture services.

1.4.2 Learning Activities
Students will use online licensing preparation practice exams to self-test along with textbook. Lecture and theory from instructor.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
87% of the students completing the chemical portion of this class. Will be 90-95% successful in the practical portion of the State of Texas Cosmetology Board.

1.5 Measured Outcome

1.5.1 Student Learning Outcomes
The students will be able to explain the physical and chemical actions that take place during the permanent. They will learn these actions through lecture and application. Test scores and application on manikins are used to measure outcomes.

1.5.2 Learning Activities
The instructor will be covering ex: nine section perm. It is a very important skill a student must know.

1.5.3 Core Objective (LINK to selection)

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1.5.4 Measure of Success
95-98% of all students will know this technique before they leave cosmetology school.

1.6 Measured Outcome 1.6 outcome
Student outcomes will be measured by exam scores and application on manikins.

1.6.1 Student Learning Outcomes
Students will be able to demonstrate basic wrapping patterns.

1.6.2 Learning Activities
The instructor will be teaching theory and hands on.

1.6.3 Core Objective (LINK to selection)

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1.6.4 Measure of Success
95-98% of students will pass this portion of the exam.
1 Course
CSME 2443, Salon Development

1.1 Division-Department
Workforce Education - Cosmetology

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes

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</table>

1.4 Measured Outcome
100% completed textbook theory and 100% demonstrated workforce skills.

1.4.1 Student Learning Outcomes
The qualities that help a new employee succeed in a service profession

1.4.2 Learning Activities
Students will use online licensing preparation practice exams along with textbook and instructors theory

1.4.3 Core Objective (LINK to selection)

General Outcomes

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<tbody>
<tr>
<td>Personal Responsibility</td>
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</table>
1.4.4 **Measure of Success**
90% of students will complete textbook theory 95% will demonstrate work force skills needed for entry-level employment

1.5 **Measured Outcome**
100% of students learned how to build a client base.

1.5.1 **Student Learning Outcomes**
Most effective way to build a client base

1.5.2 **Learning Activities**
Instructors theory and salon owners, textbook theory

1.5.3 **Core Objective (LINK to selection)**

*General Outcomes Links*

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1.5.4 **Measure of Success**
95% of students will complete the skills for employment
Program Name: CSME.2541  
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course  
CSME 2541, Preparation for the State Licensing Examination

1.1 Division-Department  
Workforce Education - Cosmetology

1.2 Course Type  
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes

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1.4 Measured Outcome
Student will be able to discuss the essentials of becoming test-wise in order to prepare for the state written and practical examination

1.4.1 Student Learning Outcomes
Student will be able to discuss the essentials of becoming test-wise in order to prepare for the state written and practical examination.

1.4.2 Learning Activities
The instructor will incorporate the proper theory. Students will use online licensing exams to self-test along with textbook and workbook.

1.4.3 Core Objective (LINK to selection)

General Outcomes

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</table>
1.4.4 Measure of Success
95% of the students will complete this portion and pass the TDLR test successfully.

1.5 Measured Outcome
90% of the students will complete textbook and theory and will demonstrate workforce skills needed for entry level employment

1.5.1 Student Learning Outcomes
The student will be prepared for test day

1.5.2 Learning Activities
Classroom lectures and collective discussion will be used to help the student with the application process

1.5.3 Core Objective (LINK to selection)

General Outcomes

Links

General Education Outcomes

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.5.4 Measure of Success
90% of the students will complete textbook and theory and will demonstrate workforce skills needed for entry level employment
Program Name: DEVL.0309  
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
DEVL.0309, Beginning Algebra

1.1 Division-Department
College Readiness

1.2 Course Type
Academic General Education Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

General Education Outcomes

Critical Thinking
Empirical and Quantitative Skills

Critical Thinking Skills (CT): To include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
Empirical and Quantitative Skills (EQS): To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions

1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Developmental Math (Devl 0309) students will demonstrate their ability to successfully solve linear equations.

1.4.2 Learning Activities
Lectures, class discussions, examples, and homework assignments (usually online but also paper assignments) will be used to teach students to successfully solve linear equations.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

General Education Outcomes

Critical Thinking
Empirical and Quantitative Skills

Critical Thinking Skills (CT): To include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
Empirical and Quantitative Skills (EQS): To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions

1.4.4 Measure of Success
All Devl 0309 instructors will include on Final Exams 5 or more linear equations to solve. Since departmental Finals are used, the same set of 5 or more questions should be used to assess this skill. Students will be deemed successful at this skill if they earn 70% or more of the points allotted to this skill on the Final Exam. 70% of a sampling of Devl 0309 students chosen from each TVCC campus which offers these courses will demonstrate success at solving linear equations by earning at least 70% of the points allotted to this topic on
their Final Exam.
Program Name: DEVL.0310
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
DEVL 0310, Intermediate Algebra

1.1 Division-Department
College Readiness

1.2 Course Type
Academic General Education Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Intermediate Algebra (Devl 0310) students will demonstrate their ability to solve quadratic equations by factoring methods.
successfully solve quadratic equations by factoring.

1.4.2 Learning Activities
Lectures, class discussions, examples, and online (or paper) homework assignments will be used to teach students to successfully solve quadratic equations by factoring.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
All Devl 0310 instructors will include on Final Exams 5 or more quadratic equations that can be solved by factoring (not counting any word problems that may also result in quadratic equations). Students will be deemed successful at this skill if they earn 70% of the points allotted to this topic on the Final Exam.
70% of a sampling of Intermediate Algebra students chosen from each TVCC campus which offers these courses will demonstrate success at solving quadratic equations by earning at least 70% of the points allotted to this topic on their Final Exam. Since Finals are departmental the same types of quadratic equations should be used to judge each student's success.
1 Course
DEVL.0316, Fundamentals of Mathematical Reasoning

1.1 Division-Department
College Readiness

1.2 Course Type
Academic General Education Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Foundation of Mathematical Reasoning 0316 students will demonstrate their ability to successfully solve linear equations.

1.4.2 Learning Activities
Lectures, class discussions, examples, and homework assignments (usually online but also paper assignments) will be used to teach students to successfully solve linear equations.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

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1.4.4 Measure of Success
All Devl 00316 instructors will include on Final Exams 5 or more linear equations to solve. Since departmental Finals are used, the same set of 5 or more questions should be used to assess this skill. Students will be deemed successful at this skill if they earn 70% or more of the points allotted to this skill on the Final Exam. 70% of a sampling of Devl 0316 students chosen from each TVCC campus which offers these courses will
demonstrate success at solving linear equations by earning at least 70% of the points allotted to this topic on their Final Exam.
Program Name: DFTG.1305  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
DFTG 1305, Technical Drafting

1.1 Division-Department
Career and Technology - Drafting

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes
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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Students will be able to produce effective hand drawings based on standards and conventional practices that describe an object's geometry in an unambiguous manner.

1.4.2 Learning Activities
End of course hand drawing project will be produced. This project will be evaluated for proper views, line quality, line types, dimensions, and proper use of sections based upon the developed Rubric. This project demonstrates communicating the correct size, shape, appearance, and material of an object to be created.

1.4.3 Core Objective (LINK to selection)

General Outcomes
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Career Entry Skills
workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.4.4 Measure of Success
60% of evaluated students will complete the drawing project and demonstrate 75% mastery in communicating the correct size, shape, appearance, and material of an object to be created.
1 Course
DFTG 1309, Basic Computer Aided Drafting

1.1 Division-Department
Career and Technology Division - Drafting

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Students will be able to demonstrate the use of Computer Aided Drafting (CAD) software to create, display, or plot properly formatted engineering working drawings, utilizing the TVCC Drafting title block, line type and line color standards.

1.4.2 Learning Activities
End of course CAD drawing project will be produced. This project will be evaluated for proper views, line quality, line types, line colors, dimensions, and proper use of sections based upon the developed Rubric. This CAD project demonstrates using technology in communicating the correct size, shape, appearance, and material of an object to be created.

1.4.3 Core Objective (LINK to selection)

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Technology

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.4.4 Measure of Success

60% of evaluated students will complete the CAD drawing project and demonstrate 75% mastery of the use of technology in communicating the correct size, shape, appearance, and material of an object to be created.
Program Name: DFTG.1405 (TDCJ)
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
DFTG 1405, Technical Drafting

1.1 Division-Department
TDCJ - Drafting - Coffield Unit

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes
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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
The student will be able to construct orthographic views of mechanical parts complete with dimensions, center marks, and center lines.

1.4.2 Learning Activities
The student will be given a mechanical part assignment and be required to generate the proper views complete with proper dimensions, center marks, and centerline items.

1.4.3 Core Objective (LINK to selection)

General Outcomes
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1.4.4 Measure of Success
75% of the class will demonstrate an ability of 70% mastery of the objective.

1.5 Measured Outcome

1.5.1 Student Learning Outcomes

1.5.2 Learning Activities

1.5.3 Core Objective (LINK to selection)

1.5.4 Measure of Success
Program Name: DFTG.1409 (TDCJ)  
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course  
DFTG 1409, Basic Computer Aided Drafting

1.1 Division-Department  
TDCJ - Drafting

1.2 Course Type  
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes  
The student will be able to create mechanical parts and assemble them to create the completed object. Utilize proper constraints and assembly guidelines.

1.4.2 Learning Activities  
The student will be given an assignment that requires the creation of multiple parts that have to be assembled together to create the completed object.

1.4.3 Core Objective (LINK to selection)

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in a target occupation

1.4.4 Measure of Success

75% of the class will demonstrate an ability of 70% mastery of the objective.
Program Name: DFTG.1417 (TDCJ)
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
DFTG 1417, Architectural Drafting - Residential

1.1 Division-Department
TDCJ - Drafting

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes
Links

General Education   General Education Outcomes

| Critical Thinking | Critical Thinking Skills (CT): To include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information |
| Technology        | Technology (TECH): Students will be able to utilize computer based technology in accessing information, solving problems and communicating |
| Career Entry Skills | Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation |

1.4 Measured Outcome

1.4.1 Student Learning Outcomes
The student will be able to design, create, and arrange a set of residential plans.

1.4.2 Learning Activities
The student will be given a project requiring the creation of the floor plans, elevations, roof plan, and foundatic plan. Adherence to design guidelines and construction codes is required.

1.4.3 Core Objective (LINK to selection)

General Outcomes
Links

General Education   General Education Outcomes

| Critical Thinking | Critical Thinking Skills (CT): To include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information |
| Technology        | Technology (TECH): Students will be able to utilize computer based technology in accessing information, solving problems and communicating |
| Career Entry Skills | Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation |
1.4.4 Measure of Success

75% of the class will demonstrate an ability of 70% mastery of the objective.
Program Name: DFTG.1433 (TDCJ)
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
DFTG 1433, Mechanical Drafting

1.1 Division-Department
TDCJ - Drafting

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
The student will be able to construct orthographic views of mechanical parts complete with dimensions, center marks, and center lines.

1.4.2 Learning Activities
The student will be given a mechanical part assignment and be required to generate the proper views complete with proper dimensions, center marks, and centerline items.

1.4.3 Core Objective (LINK to selection)

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in a target occupation

1.4.4 Measure of Success

75% of the class will demonstrate an ability of 70% mastery of the objective.
1 Course
DFTG 1457, Specialized Intermediate Computer-Aided Drafting (CAD)

1.1 Division-Department
Career and Technology  Mechanical Engineering Technology

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Utilizing Computer Aided Design (CAD) software, students will construct 2D and 3D models/assemblies/drawings and exhibit proper dimensioning/design techniques. To use learned techniques to independently design, evaluate, and create functioning parts.

1.4.2 Learning Activities
Use guided tutorials and instructor led demonstrations to design and construct 3D computer aided drafting models. Models will be evaluated for proper dimensioning, completion, and accuracy. Independent assignments to demonstrate innovative synthesis of design techniques, 3d model creation, and part prototyping.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success

60% of evaluated students will complete the required exercises and tests and demonstrate 75% mastery in creating 3d models exhibiting proper design techniques.
Program Name: DFTG.2332  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course  
DFTG 2332, Advanced Computer Aided Drafting

1.1 Division-Department  
Career and Technology Division - Drafting

1.2 Course Type  
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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</table>

1.4 Measured Outcome

1.4.1 Student Learning Outcomes  
Students will be able to develop a library of predefined objects known as blocks. The library will consist of plain blocks, attributed blocks, and dynamic blocks consisting of mechanical, electrical, architectural, and topographical symbols. This library will be used for this course and many future courses.

1.4.2 Learning Activities  
A drawing assignment requiring the use of the block library will be completed. This assignment will be used to evaluate the proper creation of the blocks and the selection of the proper type of block. The proper creation or selection will be based upon the developed Rubric.

1.4.3 Core Objective (LINK to selection)

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</table>
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation.

1.4.4 Measure of Success

60% of evaluated students will complete the block library and associated drawing assignment and demonstrate 75% mastery of the proper creation of the blocks and the selection of the proper type of block.
Program Name: DFTG.2419 (TDCJ)  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
DFTG 2419, Intermediate Computer Aided Drafting

1.1 Division-Department
TDCJ - Drafting

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes
Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
The student will be able to design, create, and arrange a set of residential plans

1.4.2 Learning Activities
The student will be given a project requiring the creation of the floor plans, elevations, roof plan, and foundatic plan. Adherence to design guidelines and construction codes is required.

1.4.3 Core Objective (LINK to selection)

General Outcomes
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</table>
1.4.4 Measure of Success

75% of the class will demonstrate an ability of 70% mastery of the objective.
Program Name: DFTG.2440 (TDCJ)
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
DFTG 2440, Solid Modeling/Design

1.1 Division-Department
TDCJ - Drafting

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
The student will be able to create mechanical parts and assemble them to create the completed object. Utilize proper constraints and assembly guidelines.

1.4.2 Learning Activities
The student will be given an assignment that requires the creation of multiple parts that have to be assembled together to create the completed object.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success

75% of the class will demonstrate an ability of 70% mastery of the objective.
Program Name: DRAM.1310  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
DRAM 1310, Introduction to Theater

1.1 Division-Department  
Speech and Fine Arts - Drama

1.2 Course Type  
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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<td>Social Responsibility (SR): To include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities</td>
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</table>

1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Students who complete DRAM 1310 Theatre Appreciation will be able to define theatre and its role within society, demonstrate a clear understanding of how theatrical performances are created both in and out of a traditional theatre environment, and justify their thoughts and opinions on a performance using specific examples to illustrate their points and defend their arguments.

1.4.2 Learning Activities  Theatrical performance critique
The performance critique will be used to assess critical thinking, social responsibility, and communication. Critical thinking skills are needed to critically analyze the performance and provide bases for their opinions, it would be a fulfillment of a social responsibility to participate in a social event such as attending a public performance of some kind and participate as an effective audience member, and the written critique would provide assessment of communication skills.

1.4.3 Core Objective (LINK to selection)

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Social Responsibility Social Responsibility (SR): To include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities

1.4.4 Measure of Success
Social Responsibility-- 90% of the students will achieve 100% of the points available on the social responsibility portion of the rubric due to their attendance of the theatrical performance
Communication-- 75% of the possible points on a rubric that assesses their communication skills, based on effective writing criteria
Critical Thinking-- 70% will score at least 75% of the possible points on a rubric that assesses the quality of their analysis and support for their opinions

1.5 Measured Outcome

1.5.1 Student Learning Outcomes
Students who complete DRAM 1310 Theatre Appreciation will be able to demonstrate an understanding of the collaborative process.

1.5.2 Learning Activities Group project
A group project will be used to assess teamwork skills. This project will allow students to collaborate by working together to present or submit a unified concept, designs, and performance (performance optional) of the selected play or scene. Each group member will be assigned or assign amongst themselves roles designated by the instructor. This project utilizes and demonstrates the imperativeness of working with others in a theatrical production process and would provide assessment for teamwork.

1.5.3 Core Objective (LINK to selection)

General Outcomes Links
General Education General Education Outcomes

Teamwork Teamwork (TW): To include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

1.5.4 Measure of Success
100% will be present for the teamwork portion of the assignment and will fulfill the expectations of being an effective participant in a group assignment by working to assist the group to achieve its goal
Program Name: DRAM.2366  
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course  
DRAM 2366, Introduction to Cinema

1.1 Division-Department  
Speech and Fine Arts - Drama

1.2 Course Type  
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes  
Develop criteria for judging a films effectiveness

1.4.2 Learning Activities  
Students will make connections between the various film practitioners utilized in a film production and present an argument for how effective they were in unifying the elements by writing a formal critique of the production.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

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1.4.4 Measure of Success  
75% of students who submit a critique will score 80%, or at least 20 points, on the critical thinking section of the scoring rubric that will assess their analysis of the unifying elements of the film using appropriate cinematic
vocabulary.

1.5 Measured Outcome

1.5.1 Student Learning Outcomes
Examine the film industry as an art form and a creative expression;

1.5.2 Learning Activities
Students will complete an oral or written critique that accesses the connection of content with the main topics of the presentation.

1.5.3 Core Objective (LINK to selection)

General Outcomes Links

General Education Outcomes

Communication Skills (CM): To include effective development, interpretation and expression of ideas through written, oral and visual communication

1.5.4 Measure of Success
75% of students who submit a critique will score 80%, or at least 20 points, on the communication section of the scoring rubric.

1.6 Measured Outcome

1.6.1 Student Learning Outcomes
Demonstrate a knowledge of the contributions of contemporary filmmakers;

1.6.2 Learning Activities
Students work in groups of two to four and will conduct a social/comparative analysis of a film directors work. The students will be assessed on the synthesis of the final project and performance within the group.

1.6.3 Core Objective (LINK to selection)

General Outcomes Links

General Education Outcomes

Teamwork (TW): To include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

1.6.4 Measure of Success
75% of students who submit an analysis will score 80%, or at least 20 points, on the teamwork section of the scoring rubric that will assess their participation in group activities.

1.7 Measured Outcome
1.7.1 Student Learning Outcomes
Examine the major social, technological, and economic considerations in the development of the film industry.

1.7.2 Learning Activities
Students will use their new academic skills/knowledge to share their opinions of the major societal shifts, technical innovation and economic considerations of the film industry by writing a critique of the films.

1.7.3 Core Objective (LINK to selection)

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1.7.4 Measure of Success
75% of students who submit at least one critique will score at least 80%, or earn at least 20 point, on the social responsibility section of the scoring rubric that will assess their ability to describe societal and cultural shifts, technical innovation, and economic considerations of the film.
Program Name: ECON.2301
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
ECON 2301, Principles of Microeconomics

1.1 Division-Department
Social Sciences - Economics

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Identify the determinants of supply and demand; demonstrate the impact of shifts in both market supply and demand curves on equilibrium price and output.

1.4.2 Learning Activities
Students will attend class and/or do the assigned readings related to the Law of Supply and Demand. Student will be tested at the end of the unit of study and a block of questions and/or discussions will be devoted to the desired outcome statement. The questions and/or discussions will evaluate factual knowledge and will also require critical thinking and application skills.

1.4.3 Core Objective (LINK to selection)

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Communication Skills: expression of ideas through written, oral and visual communication

Teamwork: To include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

Social Responsibility: To include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities

1.4.4 Measure of Success
70% of students will score a minimum of 70% of correct answers on the related questions

1.5 Measured Outcome

1.5.1 Student Learning Outcomes
Define money and the money supply; describe the process of money creation by the banking system and the role of the central bank.

1.5.2 Learning Activities
Students will attend class and/or do the assigned readings related to Money, the Banking System, and the Central Bank. Students will be tested at the end of the unit of study and a block of questions and/or discussion will be devoted to the desired outcome statement. The questions and/or discussions will evaluate factual knowledge and will also require critical thinking and application skills.

1.5.3 Core Objective (LINK to selection)

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1.5.4 Measure of Success
70% of students will score a minimum of 70% of correct answers on the related questions

1.6 Measured Outcome

1.6.1 Student Learning Outcomes
Explain the mechanics and institutions of international trade/globalization and their impact on the macro economy.

1.6.2 Learning Activities
Students will attend class and/or do the assigned readings related to International trade/globalization and its
impact on the Macroeconomy. Students will be tested at the end of the unit of study and a block of questions and/or discussions will be devoted to the desired outcome statement. The questions and/or discussions will evaluate factual knowledge and will also require critical thinking and application skills.

1.6.3 Core Objective (LINK to selection)

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1.6.4 Measure of Success

70% of students will score a minimum of 70% of correct answers on the related questions.
Program Name: ECON.2302
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
ECON 2302, Principles of Microeconomics

1.1 Division-Department
Social Sciences - Economics

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Identify the determinants of supply and demand; demonstrate the impact of shifts in both market supply and demand curves on equilibrium price and output.

1.4.2 Learning Activities
Students will attend class and/or do the assigned readings related to the Law of Supply and Demand. Student will be tested at the end of the unit of study and a block of questions and/or discussions will be devoted to the desired outcome statement. The questions and/or discussions will evaluate factual knowledge and will also require critical thinking and application skills.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
70% of the tested students will score a minimum of 70% correct answers on the related questions.

1.5 Measured Outcome

1.5.1 Student Learning Outcomes
Determine the profit maximizing price and quantity of resources in factor markets under perfect and imperfect competition by use of marginal analysis.

1.5.2 Learning Activities
Students will attend class and/or do the assigned readings and calculations related to the factor markets by use of marginal analysis in profit maximization. Students will be tested at the end of the unit of study and a block of questions and/or discussions will be devoted to the desired outcome statement. The questions and/or discussions will evaluate factual knowledge and will also require critical thinking and application skills.

1.5.3 Core Objective (LINK to selection)

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1.5.4 Measure of Success
70% of students will score a minimum of 70% of correct answers on the related questions.

1.6 Measured Outcome

1.6.1 Student Learning Outcomes
Describe governmental efforts to address market failure such as monopoly power, externalities, and public goods.

1.6.2 Learning Activities
Students will attend class and/or do the assigned readings related to governmental efforts to address market failure such as monopoly power, externalities, and public goods. Students will be tested at the end of the unit.
study and a block of questions and/or discussions will be devoted to the desired outcome statement. The questions and/or discussions will evaluate factual knowledge and will also require critical thinking and application skills.

1.6.3 Core Objective (LINK to selection)

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1.6.4 Measure of Success

70% of students will score a minimum of 70% of correct answers on the related questions.
1 Course
EDUC 1300, Learning Framework

1.1 Division-Department
College Readiness

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Students will demonstrate an understanding of the foundational models of communication by developing a PowerPoint presentation.

1.4.2 Learning Activities
The My Best Fit project will employ the following features:
- Students will create and submit a PowerPoint which will be evaluated by the instructor for mechanics, structure, and connection of content with main topic, logic and accuracy and depth of content. The scoring rubric will be used to evaluate the appropriateness and effectiveness of the written communication of the presentation.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

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1.4.4 Measure of Success
75% of students who submit a My Best Fit project will score at least 70% of the available points on the PowerPoint rubric.

1.5 Measured Outcome

1.5.1 Student Learning Outcomes
Student will research various campus student organizations.

1.5.2 Learning Activities
Using a template, student will obtain information about campus organizations. This information may be obtained online, as well as by contacting directors of the various organizations. Students will determine the purpose and goals of the student organizations, community service projects performed by the organizations, and important dates of events associated with these student organizations.

1.5.3 Core Objective (LINK to selection)

General Outcomes Links

General Education Outcomes

Social Responsibility (SR): To include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities

Social Responsibility

1.5.4 Measure of Success
75% of students will demonstrate success at Social Responsibility by earning at least 70% of the allotted points for this topic. A rubric will be used to measure the thoroughness of their research.

1.6 Measured Outcome

1.6.1 Student Learning Outcomes
Student will make an informed decision on choosing a transfer college with a major.

1.6.2 Learning Activities
Using the My Best Fit project students will compare colleges and majors and make an informed decision on the best college for them.

1.6.3 Core Objective (LINK to selection)

General Outcomes Links

General Education Outcomes

Critical Thinking Skills (CT): To include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information

Critical Thinking
1.6.4 Measure of Success
75% if students will demonstrate success at Critical Thinking by earning at least 70% of the allotted points for this topic based on the rubric.

1.7 Measured Outcome

1.7.1 Student Learning Outcomes
Students will research and analyze the costs of obtaining a specific degree at their chosen college, investigate the salaries and benefits of the chosen career, and devise a calendar to evaluate the time needed to complete the pathway to their career.

1.7.2 Learning Activities
Using a template, students will obtain the information required, and then include it in the capstone project. Students will demonstrate understanding of the real costs and benefits involved with the chosen career. Students will also map out a realistic calendar for the completion of their education, and calculate the associated costs for being in school over this period.

1.7.3 Core Objective (LINK to selection)

General Outcomes Links

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1.7.4 Measure of Success
75% of students will demonstrate success at Empirical and Quantitative Skills by earning at least 70% of the allotted points for this topic. A rubric will be used to measure the thoroughness of their research.
Program Name: ELPT.1221
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
ELPT 1221, Introduction to Electrical Safety and Tools

1.1 Division-Department
TDCJ - Electrical Technology

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

<table>
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</table>

1.4 Measured Outcome
Read the required chapters complete reviews and assignments related to the chapters and test on each chapter.

1.4.1 Student Learning Outcomes
Students should have a working understanding electrical hazards and how to avoid them. Also the student will be able to demonstrate safe working habits with hand and power tools.

1.4.2 Learning Activities
Read the required chapters complete reviews and assignments related to the chapters and test on each chapter.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
70% of the evaluated students will demonstrate an ability of 70% mastery of the objective
Program Name: ELPT.1225
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
ELPT 1225, National Electrical Code

1.1 Division-Department
TDCJ - Electrical Technology

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes
Links

General Education
Education Outcomes
Career Entry Skills
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.4 Measured Outcome
Read the required chapters complete reviews and assignments related to the chapters and test on each chapter.

1.4.1 Student Learning Outcomes
Students should have a working understanding of the National Electric Code and how to apply the information in the installation of electrical systems.

1.4.2 Learning Activities
Read the required chapters complete reviews and assignments related to the chapters.

1.4.3 Core Objective (LINK to selection)

General Outcomes
Links

General Education
Education Outcomes
Career Entry Skills
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.4.4 Measure of Success
70% of the evaluated students will demonstrate an ability of 70% mastery of the objective.
1 Course
ELPT 1291, Special Topics - Electrical

1.1 Division-Department
TDCJ - Electrical Technology

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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</table>

1.4 Measured Outcome
Read the required chapters complete reviews and assignments related to the chapters and test on each chapter.

1.4.1 Student Learning Outcomes
Students should have an understanding of Control Circuit Ladder Logic

1.4.2 Learning Activities
Read the required chapters complete reviews and assignments related to the chapters and test on each chapter.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
70% of the evaluated students will demonstrate an ability of 70% mastery of the objective.
Program Name: ELPT.1405
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
ELPT 1405, ELPT Basic Hydraulics

1.1 Division-Department
TDCJ - Electrical Technology

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Education

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1.4 Measured Outcome
Read the required chapters complete reviews and assignments related to the chapters and test on each chapter.

1.4.1 Student Learning Outcomes
Students should have a working understanding of hydraulic systems, including types of hydraulic pumps, cylinders, valves, motors, and related

1.4.2 Learning Activities
Read the required chapters complete reviews and assignments related to the chapters and test on each chapter.

1.4.3 Core Objective (LINK to selection)

General Education

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</table>
1.4.4 Measure of Success

70% of the evaluated students will demonstrate an ability of 70% mastery of the objective.
Program Name: ELPT.1411
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
ELPT 1411, Basic Electrical Theory

1.1 Division-Department
TDCJ - Electrical Technology

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome
Read the required chapters complete reviews and assignments related to the chapters and test on each chapter.

1.4.1 Student Learning Outcomes
The student will be able to perform a calculated analysis of series, parallel and combination DC circuits.

1.4.2 Learning Activities
Define formulas related to series, parallel and combination circuits, including ohms law, Kirchhoffs voltage law and current law; and equivalent resistance in a series, parallel and combination circuit.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
70% of the evaluated students will demonstrate an ability of 70% mastery of the objective.

1.5 Measured Outcome

1.5.1 Student Learning Outcomes
The student will be able to perform a calculated analysis of series/parallel AC resistive/capacitive circuits.

1.5.2 Learning Activities
Define ohms law concerning AC circuits verses DC circuits.

1.5.3 Core Objective (LINK to selection)

General Outcomes
Links

General Education Outcomes

Empirical and Quantitative Skills
Empirical and Quantitative Skills (EQS): To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions

Career Entry Skills
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.5.4 Measure of Success
70% of the evaluated students will demonstrate an ability of 70% mastery of the objective
1 Course
ELPT 1429, Residential Wiring

1.1 Division-Department
TDCJ - Electrical Technology

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome
Read the required chapters complete reviews and assignments related to the chapters and test on each chapter.

1.4.1 Student Learning Outcomes
Students should have an understanding of hardware, materials, tools, building plans and understand general NEC requirements for rough-in wiring used in residential wiring.

1.4.2 Learning Activities
Read the required chapters, complete reviews and assignments related to the chapters and test on each chapter.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
70% of the evaluated students will demonstrate an ability of 70% mastery of the objective
Program Name: ELPT.1445
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
ELPT 1445, Commercial Wiring

1.1 Division-Department
TDCJ - Electrical Technology

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome
Read the required chapters complete reviews and assignments related to the chapters and test on each chapter.

1.4.1 Student Learning Outcomes
Students should have an understanding of over current protection, raceway panel board installation, proper grounding techniques, and associated safety procedures used in commercial wiring methods.

1.4.2 Learning Activities
Read the required chapters complete reviews and assignments related to the chapters and test on each chapter.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
70% of the evaluated students will demonstrate an ability of 70% mastery of the objective.
Program Name: ELPT.2239
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
ELPT 2239, Electrical Power Distribution

1.1 Division-Department
TDCJ - Electrical Technology

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes

General Education Outcomes

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.4 Measured Outcome
Read the required chapters complete reviews and assignments related to the chapters and test on each chapter.

1.4.1 Student Learning Outcomes
Students should have a working understanding of Design, operation, and technical details of modern power distribution systems including, generating equipment, transmissions lines, plant distribution and protective devices. Includes calculations of fault current, system load analysis, Branch circuit, Feeder Circuit, and Service Entrance Requirements.

1.4.2 Learning Activities
Read the required chapters complete reviews and assignments related to the chapters and test on each chapter.

1.4.3 Core Objective (LINK to selection)

General Outcomes

General Education Outcomes

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.4.4 Measure of Success
70% of the evaluated students will demonstrate an ability of 70% mastery of the objective.
1 Course
ENGL 1301, Composition I

1.1 Division-Department
Language Arts - English

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

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<td>Personal Responsibility (PR): To include the ability to connect choices, actions, and consequences to ethical decision-making</td>
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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Students will demonstrate knowledge of individual and collaborative writing processes.

1.4.2 Learning Activities
Students will work in groups to prepare a written essay analyzing and researching an approved topic. Papers will be graded for content, logic, accuracy, structure, and mechanics. Teamwork will be evaluated for participation, synthesis of work, and sharing work. Students will self-analyze, link the class to real life, and employ research strategies to generate a written product in the form of a researched essay.

1.4.3 Core Objective (LINK to selection)

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Teamwork

work effectively with others to support a shared purpose or goal

Personal Responsibility

Personal Responsibility (PR): To include the ability to connect choices, actions, and consequences to ethical decision-making

1.4.4 Measure of Success

60% of enrolled students will (suggested learning activity) and demonstrate at least 70% mastery in (core objectives)
1 Course
ENGL 1302, Composition II

1.1 Division-Department
Language Arts - English

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Students will Demonstrate knowledge of individual and collaborative writing processes.

1.4.2 Learning Activities
Students will work in groups to prepare a written essay analyzing and researching an approved topic. Papers will be graded for content, logic, accuracy, structure, and mechanics. Teamwork will be evaluated for participation, synthesis of work, and sharing work. Students will self-analyze, link the class to real life, and employ research strategies to generate a written product in the form of a researched essay.

1.4.3 Core Objective (LINK to selection)

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Personal Responsibility Personal Responsibility (PR): To include the ability to connect choices, actions, and consequences to ethical decision-making

1.4.4 Measure of Success
60% of enrolled students will (suggested learning activity) and demonstrate at least 70% mastery in (core objective)
Program Name: ENGL.2311  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course  
ENGL 2311, Technical and Business Writing

1.1 Division-Department  
Language Arts - English

1.2 Course Type  
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

**General Outcomes Links**

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes  
Students will demonstrate knowledge of individual and collaborative writing processes.

1.4.2 Learning Activities  
Students will work in groups to prepare a written essay analyzing and researching an approved topic. Papers will be graded for content, logic, accuracy, structure, and mechanics. Teamwork will be evaluated for participation, synthesis of work, and sharing work. Students will self-analyze, link the class to real life, and employ research strategies to generate a written product in the form of a researched essay.

1.4.3 Core Objective (LINK to selection)

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Teamwork

work effectively with others to support a shared purpose or goal

Personal Responsibility

Personal Responsibility (PR): To include the ability to connect choices, actions, and consequences to ethical decision-making

1.4.4 Measure of Success

60% of enrolled students will (suggested learning activity) and demonstrate at least 70% mastery in (core objective)
Program Name: ENGL.2322  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course  
ENGL 2322, British Literature I

1.1 Division-Department  
Language Arts - English

1.2 Course Type  
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes  
Write research-based critical papers about the assigned readings in clear and grammatically correct prose, using various critical approaches to literature.

1.4.2 Learning Activities  
Students will prepare a written essay analyzing and researching an approved topic related to the differing time periods, cultures, and/or literary elements. Papers will be graded for content, logic, accuracy, structure, and mechanics. Students will self-analyze, link the class to real life, and employ research strategies to generate a written product (WP) in the form of a researched essay.

1.4.3 Core Objective (LINK to selection)

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Personal Responsibility (PR): To include the ability to connect choices, actions, and consequences to ethical decision-making

1.4.4 Measure of Success
60% of enrolled students will (suggested learning activity) and demonstrate at least 70% mastery in (core objectives)
Program Name: ENGL.2323  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course  
ENGL 2323, British Literature II

1.1 Division-Department  
Language Arts - English

1.2 Course Type  
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes

Students will prepare a written essay analyzing and researching an approved topic related to the differing time periods, cultures, and/or literary elements. Papers will be graded for content, logic, accuracy, structure, and mechanics. Students will self-analyze, link the class to real life, and employ research strategies to generate a written product (WP) in the form of a researched essay.

1.4.2 Learning Activities

Students will write a research paper comparing the differing time periods, cultures, and/or literary elements found in which the student will present an argument and provide justification for their observations and where the grading of the essay will be based, at least in part, on the students accuracy and/or depth of presentation.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

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### Communication Skills
- **expression of ideas through written, oral and visual communication**

### Social Responsibility
- **Social Responsibility (SR):** To include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities

### Personal Responsibility
- **Personal Responsibility (PR):** To include the ability to connect choices, actions, and consequences to ethical decision-making

#### 1.4.4 Measure of Success

60% of enrolled students will (suggested learning activity) and demonstrate at least 70% mastery in (core objectives)
Program Name: ENGL.2327
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
ENGL 2327, American Literature I

1.1 Division-Department
Language Arts - English

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

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Students will prepare a written essay analyzing and researching an approved topic related to the differing time periods, cultures, and/or literary elements. Papers will be graded for content, logic, accuracy, structure, and mechanics. Students will self-analyze, link the class to real life, and employ research strategies to generate a written product (WP) in the form of a researched essay.

1.4.2 Learning Activities
Students will write a research paper comparing the differing time periods, cultures, and/or literary elements found in which the student will present an argument and provide justification for their observations and where the grading of the essay will be based, at least in part, on the students accuracy and/or depth of presentation.

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1.4.4 Measure of Success

60% of enrolled students will (suggested learning activity) and demonstrate at least 70% mastery in (core objectives)
Program Name: ENGL.2328
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
ENGL 2328, American Literature II

1.1 Division-Department
Language Arts - English

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Write research-based critical papers about the assigned readings in clear and grammatically correct prose, using various critical approaches to literature.

1.4.2 Learning Activities
Students will prepare a written essay analyzing and researching an approved topic related to the differing time periods, cultures, and/or literary elements. Papers will be graded for content, logic, accuracy, structure, and mechanics. Students will self-analyze, link the class to real life, and employ research strategies to generate a written product (WP) in the form of a researched essay.

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1.4.4 Measure of Success

60% of enrolled students will (suggested learning activity) and demonstrate at least 70% mastery in (core objectives)
Program Name: ENGL.2332
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
ENGL 2332, World Literature I

1.1 Division-Department
Language Arts - English

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Write research-based critical papers about the assigned readings in clear and grammatically correct prose, using various critical approaches to literature.

1.4.2 Learning Activities
Students will prepare a written essay analyzing and researching an approved topic related to the differing time periods, cultures, and/or literary elements. Papers will be graded for content, logic, accuracy, structure, and mechanics. Students will self-analyze, link the class to real life, and employ research strategies to generate a written product (WP) in the form of a researched essay.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success

60% of enrolled students will (suggested learning activity) and demonstrate at least 70% mastery in (core objectives)
Program Name: ENGL.2333  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1  Course
ENGL 2333, World Literature II

1.1  Division-Department
Language Arts - English

1.2  Course Type
Academic TVCC Core Course (Transfer)

1.3  Required General Education Outcomes (LINK to selection)

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1.4  Measured Outcome

1.4.1  Student Learning Outcomes
Students will prepare a written essay analyzing and researching an approved topic related to the differing time periods, cultures, and/or literary elements. Papers will be graded for content, logic, accuracy, structure, and mechanics. Students will self-analyze, link the class to real life, and employ research strategies to generate a written product (WP) in the form of a researched essay.

1.4.2  Learning Activities
Students will write a research paper comparing the differing time periods, cultures, and/or literary elements found in which the student will present an argument and provide justification for their observations and where the grading of the essay will be based, at least in part, on the students accuracy and/or depth of presentation.

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### 1.4.4 Measure of Success

60% of enrolled students will (suggested learning activity) and demonstrate at least 70% mastery in (core objectives)
1 Course
FIRT 1305 - Public Education Programs

1.1 Division-Department
Career and Technology Division - Fire Science

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links
Strategic Plan 1 Enhance the Student
1.4 Workforce Success Workforce Success

1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Students will demonstrate the design and implementation of a fire and life safety education program by preparing a topic and presenting information to a specific audience.

1.4.2 Learning Activities
1. Choose a fire and life safety topic and develop a lesson plan that is appropriate for the audiences demographics.
2. Prepare a visual aid or activity for use during the presentation.
3. Upload a video recording of the student giving a presentation. Extra credit will be given if the student present to a live audience. The presentation will be graded using a rubric that evaluates the students knowledge of the topic, use of visual aids, the organization of information, professionalism, and the presentations appropriateness for the audience.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links
Strategic Plan 1 Enhance the Student
1.4 Workforce Success Workforce Success

1.4.4 Measure of Success
60% of evaluated students will present a topic of their choice and demonstrate 75% mastery of the design and implementation of a fire and life safety education program.
Program Name: FIRT.1315  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course  
FIRT 1315 - Hazardous Materials 1

1.1 Division-Department  
Career and Technology Division - Fire Science

1.2 Course Type  
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links
Strategic Plan  1 Enhance the Student
   1.4 Workforce Success  Workforce Success

1.4 Measured Outcome

1.4.1 Student Learning Outcomes  
Students will demonstrate their ability to identify hazardous materials and determine the appropriate level of response by evaluating information given during a scenario.

1.4.2 Learning Activities
1The student will be given a scenario involving hazardous materials.
2The student will identify the hazardous material involved in the scenario.
3Provided an Emergency Response Guidebook (ERG), the student will identify the correct guide number, describe the threats associated with the hazardous material, and develop an incident action plan.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links
Strategic Plan  1 Enhance the Student
   1.4 Workforce Success  Workforce Success

1.4.4 Measure of Success
60% of evaluated students will correctly identify the hazardous material, select the appropriate guide number, and develop an incident action plan consistent with their level of training.
1 Course
FIRT 1327 - Building Construction

1.1 Division-Department
Career and Technology Division - Fire Science

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links
Strategic Plan 1 Enhance the Student
1.4 Workforce Success Workforce Success

1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Based on information provided in a scenario, students will demonstrate their ability to identify various types of building construction and determine any threats that are commonly associated with that construction type under fire conditions.

1.4.2 Learning Activities
1. The student will be given a scenario that describes building construction features and fire conditions.
2. The student will identify the construction type involved in the scenario.
3. The student will describe common hazards associated with the identified construction type when under fire conditions.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links
Strategic Plan 1 Enhance the Student
1.4 Workforce Success Workforce Success

1.4.4 Measure of Success
60% of evaluated students will identify the building construction type and demonstrate 75% mastery of hazards commonly associated with the identified construction type.
Program Name: GAME.1303 (TDCJ)
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
GAME 1303, Introduction to Game Programming

1.1 Division-Department
TDCJ - Computer Information Technology

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

1.4 Measured Outcome  Students will create a game program.
The students will demonstrate the ability to create a text based game program.

1.4.1 Student Learning Outcomes  Students will create a game program.
The students will demonstrate an understanding of computer game program development and how it is used in the computer gaming industry.

1.4.2 Learning Activities
Instructor created exams will be used to evaluate student comprehension of the computer systems and software. Performance on course assignments will be used to determine the students comprehension of the computer game programming development.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

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1.4.4 Measure of Success
70% of the evaluated students will demonstrate an ability of 70% mastery of the objective.
Program Name: GOVT.2305  
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course  
GOVT 2305, Federal Government

1.1 Division-Department  
Social Sciences - Government

1.2 Course Type  
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes  
Explain the origin and development of constitutional democracy in the United States.

1.4.2 Learning Activities  
Students will use new academic knowledge to apply fundamental principles of constitutional democracy in the U.S. to current real world settings. Students will contribute their opinions and concerns about community, state or national issues and needs as they relate to U.S. Constitutional principles. They will compare and contrast the evolution and changes in constitutional interpretation. Students will accomplish this through political in class discussions, journals, discussion questions, essays, and / or presentations.

1.4.3 Core Objective (LINK to selection)

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### 1.4.4 Measure of Success

60% of students will demonstrate an acceptable or exemplary ratingrubric for spelling, attendance, etc. for each measured general education goal.
Program Name: GOVT.2306  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
GOVT 2306, Texas Government

1.1 Division-Department
Social Sciences - Government

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Explain the origin and development of Texas Constitution

1.4.2 Learning Activities
Students will use new academic knowledge to apply fundamental principles of constitutional democracy in the Texas to current real world settings. Students will contribute their opinions and concerns about community, state, or national issues and needs as they relate to Texas Constitutional principles. They will compare and contrast the evolution and changes in constitutional interpretation. Students will accomplish this through politic in class discussions, journals, discussion questions, essays, and / or presentations.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success

60% of students will demonstrate an acceptable or exemplary rating based upon a rubric for each measured general education goal.
Program Name: HALT.1401
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
HALT.1401, Principles of Horticulture

1.1 Division-Department
TDCJ horticulture

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Student will be able to visually identify all parts of a plant. Students will have to visually recognize and verbally identify parts of a plant.

1.4.2 Learning Activities
Exams, discussion, teacher demonstration, and by properly identifying parts of the plant.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
85% of students will demonstrate the knowledge and ability to properly identify plant parts with a 70% mastery of the objective.
Program Name: HALT.1422
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
HALT 1422, Horticulture Landscape Design

1.1 Division-Department
TDCJ - Horticulture

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
All students will demonstrate the safe operation of a 0 turn mower.

1.4.2 Learning Activities
Reading, discussion and teacher demonstration and by demonstrating the safe operation of the 0 turn mower.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
All students will score 100% on 0 turn safety test and safely demonstrate the proper use of the 0 turn mower.
Program Name: HALT.2423
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
HALT 2423, Horticulture Pest Control

1.1 Division-Department
TDCJ - Horticulture

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
The student will identify multiple insects and chemical controls for them. The insects will be those found in the greenhouse setting.

1.4.2 Learning Activities
Students will be able to properly identify chemical control for that insect. Through reading and discussion and teacher demonstration.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
Students will score 75% or better on all written exams and lab exercises.
Program Name: HART.1401 (TDCJ)
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
HART 1401, Basic Electricity for HVAC

1.1 Division-Department
TDCJ - Air Conditioning/Refrigeration

1.2 Course Type
WECD Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Student will learn how to Identify different types of wiring diagrams, meter usage, motor testing, capacitor testing, as well as other electrical functions.

1.4.2 Learning Activities
Schematic Reading
Electrical Trainer
Motor Testing
Capacitor Testing
Compressor Motor Testing
Diagram Drawing
Electrical Symbols
Circuit Board Testing
Meter Usage
Motor Data Plate Information

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success

75% of the evaluated students will demonstrate an ability of 80% mastery of the subject
Program Name: HART.1403 (TDCJ)
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
HART 1403, A/C Refrigerant Control Principles

1.1 Division-Department
TDCJ - Air Conditioning/Refrigeration

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Student will learn how to Identify different types of refrigerant control devices, pressure controls, electrical controls, interpreting wiring diagrams and troubleshooting methods.

1.4.2 Learning Activities
Interpreting Wiring Diagrams
Identify Motor Controls
Identify Oil Controls
Identify Pressure Controls
Identify Thermostat Controls
Control Diagnosing
Refrigerant Flow Controls
Computer Lab Software Program

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success

75% of the evaluated students will demonstrate an ability of 80% mastery of the subject
Program Name: HART.1407 (TDCJ)
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
HART 1407, Refrigeration Principles

1.1 Division-Department
TDCJ - Air Conditioning/Refrigeration

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Students will learn the principles of heat, the basic refrigeration cycle, temperature/pressure relationship as well as being able to identify and use tools of this industry. Also learning to braze, and work with copper will be addressed.

1.4.2 Learning Activities
T/PCHART
REFRIGERANT CYCLE
TOOL IDENTIFICATION
SURFACE PREPARATION
CUTTING
REAMING
SWAGING
FLARING
SOFT SOLDERING
BRAZING
PRESSURE TEST
TUBE BENDING
SAFETY TRAINING

1.4.3 Core Objective (LINK to selection)
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.4.4 Measure of Success

75% of the evaluated students will demonstrate an ability of 80% mastery of the subject
Program Name: HART.1445 (TDCJ)
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
HART 1445, Gas and Electric Heating

1.1 Division-Department
TDCJ - Air Conditioning/Refrigeration

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Students will learn the principles and procedures used in servicing and troubleshooting heating systems including gas furnaces and electric heating units. The installation process is also covered in this section.

1.4.2 Learning Activities
COMPONENT IDENTIFICATION
INSTALLATION PROCEDURES
START-UP PROCEDURES
PROPER USE OF TOOLS
TROUBLESHOOTING
SAFETY TRAINING
GAS TRAINER
INTERACTIVE SOFTWARE

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success

75% of the evaluated students will demonstrate an ability of 80% mastery of the subject
Program Name: HIST.1301  
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course  
HIST 1301, United States History I

1.1 Division-Department  
Social Sciences - History

1.2 Course Type  
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes  
Students will demonstrate effective written communication skills.

1.4.2 Learning Activities  
Each student will write either a book or an article review that will be graded not only on content but also on proper grammar usage.  
Each written critique will reflect the ability to analyze the authors purpose in writing, fulfillment of that purpose. Students will required to indicate the ideological bias of the author of the secondary work in his or her conclusions.

1.4.3 Core Objective (LINK to selection)

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Personal Responsibility (PR): To include the ability to connect choices, actions, and consequences to ethical decision-making

1.4.4 Measure of Success

60% of students will achieve a score of 50 or over from a rubric
Program Name: HIST.1302  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course  
HIST 1302, United States History II

1.1 Division-Department  
Social Sciences - History

1.2 Course Type  
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes  
Students will demonstrate effective written communication skills

1.4.2 Learning Activities  
Each student will write either a book or an article review that will be graded not only on content but also on proper grammar usage.  
Each written critique will reflect the ability to analyze the authors purpose in writing, fulfillment of that purpose.  
Students will required to indicate the ideological bias of the author of the secondary work in his or her conclusions

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success

60% of students assessed with achieve a score of 50 or greater on the rubric
Program Name: HIST.2301  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
HIST 2301, Texas History

1.1 Division-Department
Social Sciences - History

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Students will demonstrate effective written communication skills

1.4.2 Learning Activities
Each student will write either a book or an article review that will be graded not only on content but also on proper grammar usage. Each written critique will reflect the ability to analyze the authors purpose in writing, fulfillment of that purpose. Students will required to indicate the ideological bias of the author of the secondary work in his or her conclusions

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success

60% of students assessed with achieve a score of 50 or greater on the rubric
Program Name: HRPO.2301
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course HRPO 2301
HRPO 2301, Human Resource Management

1.1 Division-Department Business and Computer Science - Management
Business and Computer Science - Management

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection) Communication skills and career entry skills
The student will present their training plan and be utilizing their communication skills. These training skills will be useful when training other employees and will give the student necessary skills for their management careers as an entry level employee.

General Outcomes
Links

General Education Outcomes

Communication Skills
Communication Skills (CM): To include effective development, interpretation and expression of ideas through written, oral and visual communication

Career Entry Skills
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.4 Measured Outcome Training Program/Plan
Develop a training program for the job of an airline reservation clerk for a major airline.

1.4.1 Student Learning Outcomes
Develop a training program for the job of airline reservation clerk for a major airline.

1.4.2 Learning Activities
Develop the outline of a training program for new airline reservation clerks, being specific on what you want to teach the new clerks including the methods and aids to use for training them and topics to be covered in a three day training schedule.

1.4.3 Core Objective (LINK to selection)

General Outcomes
Links

General Education Outcomes

Communication Skills
Communication Skills (CM): To include effective development, interpretation and expression of ideas through written, oral and visual communication

Career Entry Skills (CE): Students will be able to demonstrate academic skills and
Career Entry Skills  workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.4.4 Measure of Success

75% of the evaluated students will demonstrate an ability of 70% mastery of the objective.
Program Name: HUMA.1301
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course

HUMA 1301, Introduction to Humanities

1.1 Division-Department
Language Arts - Humanities

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes

1. Students will gain understanding of the ways in which the Humanities engage, express, and inform diverse human experiences, situated within distinctive social, cultural, and historical settings, through the analysis and interpretation of works of art, religion, philosophy, and literature, selected from a variety of world cultures and apply multiple theoretical, critical, and analytical perspectives to the study of history, the arts, and the humanities, in order to interpret and appreciate the humanistic traditions of diverse cultures and peoples.

1.4.2 Learning Activities

All students will be assessed of their understanding of the concept of dark and light in relation to the arts and the humanities. An essay question will be implemented to assess each students ability to communicate their comprehension of this concept. The essay question will be graded on a rubric based on a 4.0 scale. Expected results for this baseline use of the outcome are an average of 3.0 for Comprehension/Critical Thinking and 3.0 for Written Communication Skills.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

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**1.4.4 Measure of Success**

Indicates: 95% of enrolled students who attempted the suggested learning activity demonstrated at least 75% mastery of the specified assignment; 81% of enrolled students whether or not they attempted the assignment demonstrated mastery.

**1.5 Measured Outcome**

**1.5.1 Student Learning Outcomes**

Students will communicate understanding of the major concept of darkness and light in relation to learning and the arts and provide concrete examples of this concept.

**1.5.2 Learning Activities**

Assessment of student learning will take various forms, through multiple kinds of assignments that are appropriate to the methods of the discipline and the topics being studied. Essay will be the primary method for this assessment.

**1.5.3 Core Objective (LINK to selection)**

*General Outcomes Links*

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**1.5.4 Measure of Success**

Yes; see above data. The submission of the assignment reflects the PR by the students and the reaction to the topic involves SR as well.
Program Name: IMED.1316
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course IMED 1316 Web Design I

1.1 Division-Department Business and Computer Science

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection) Critical Thinking

1.4 Measured Outcome Web Site Project
40% of grade

1.4.1 Student Learning Outcomes Design web pages using HTML coding
Including:
a. Various types of links into web pages (internal, relative, absolute, graphical)
b. Various types of page organizations (headings, lists, tables, and frames)
c. Cascading Style Sheets (CSS) to format web pages
d. Interactive forms and other scripts
e. Various types of multimedia files (graphics, sounds, videos)

1.4.2 Learning Activities Web Site Project
A major grade requirement is to plan, design, create, edit, and publish a Web site project to an external Web server. Students are responsible for choosing, maintaining, publishing, and purchasing an online Web server. The project is published to the Web site several times during the course. In order for students to pass this course, their Web site project are required to be published several times on or before the due dates. Students will receive an automatic F as a final grade if the final Web site project is not published on or before the due date posted.

1.4.3 Core Objective (LINK to selection) Technology

General Outcomes Links

General Education
General Education Outcomes
Technology
Technology (TECH): Students will be able to utilize computer based technology in accessing information, solving problems and communicating

1.4.4 Measure of Success Grading Rubric
1 Course
INRW.0310, Integrated Reading & Writing I

1.1 Division-Department
College Readiness

1.2 Course Type
Academic General Education Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Reading students will demonstrate that they can find the main idea in a paragraph or longer passage.

1.4.2 Learning Activities
This will be accomplished through classroom lectures, oral discussions and practice exercises, readings from the textbook and computer generated exercises online from their reading lab. The instructor will model reading techniques for the students centered around locating the main ideas in paragraphs and longer materials. A pre test will be given during the first week of classes. Results will be handed to each student so they can see where they are weak in reading skills.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
Mastery tests covering the skill of finding the main idea will be given and their results discussed with them. Near the end of the semester a post test will be given to see if the student has mastered the skill. A final exam will be given that covers all the skills taught from the textbook during the semester. Students will also be tested online in their computer labs. Daily review tests will be given for that skill and written practice exercises will be graded and discussed in order to show the student where their answers were wrong.
At least 60% of all the reading students will improve scores on the post test when compared to the pretest.
1.5 Measured Outcome

1.5.1 Student Learning Outcomes
Students will be able to recognize the major and minor details in a paragraph or longer passage.

1.5.2 Learning Activities
This will be accomplished through classroom lectures, oral discussions and practice exercises, readings from the textbook and computer generated exercises online from their reading lab. The instructor will model reading techniques for the students centered around locating the main ideas in paragraphs and longer materials. A pre test will be given during the first week of classes. Results will be handed to each student so they can see where they are weak in reading skills.

1.5.3 Core Objective (LINK to selection)

General Outcomes Links

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1.5.4 Measure of Success
Mastery tests covering the skill of finding major and minor details idea will be given and their results discussed with them. Near the end of the semester a post test will be given to see if the student has mastered the skill. A final exam will be given that covers all the skills taught from the textbook during the semester. Students will also be tested online in their computer labs. Daily review tests will be given for that skill and written practice exercises will be graded and discussed in order to show the student where their answers were wrong. At least 60% of the students will be able to recognize the supporting details in a paragraph or longer passage.

1.6 Measured Outcome

1.6.1 Student Learning Outcomes
Reading students will improve their overall comprehension scores in all areas of the six skills taught during this semester.

1.6.2 Learning Activities
This will be accomplished through classroom lectures, oral discussions and practice exercises, readings from the textbook and computer generated exercises online from their reading lab. The instructor will model reading techniques for the students centered around locating the main ideas in paragraphs and longer materials. A pre test will be given during the first week of classes. Results will be handed to each student so they can see where they are weak in reading skills.

1.6.3 Core Objective (LINK to selection)

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Communication Skills (CM): To include effective development, interpretation and expression of ideas through written, oral and visual communication

1.6.4 Measure of Success

Mastery tests covering the skill of finding the main idea will be given and their results discussed with them. Near the end of the semester a post test will be given to see if the student has mastered the skill. A final exam will be given that covers all the skills taught from the textbook during the semester. Students will also be tested online in their computer labs. Daily review tests will be given for that skill and written practice exercises will be graded and discussed in order to show the student where their answers were wrong. 70% of the reading students will improve their overall reading comprehension.

1.7 Measured Outcome

1.7.1 Student Learning Outcomes

Students will demonstrate writing skills (including grammar, mechanics, and spelling) in order to correctly convey information. This includes the following skills: ensuring the agreement of parts of speech such as nouns, pronouns and verbs; correct word choice: combining simple clauses into compound and complex constructions; appropriate transition words; parallel series within a sentence in number and construction; and avoiding redundancy.

1.7.2 Learning Activities

Examples and models will be used to demonstrate recognition of appropriate elements within a composition. Students will review grammatical sentence structure from adopted textbook, students portfolios, newspaper articles, and THEA practice material. Students will incorporate these ideas through essay writing and receive weekly feedback from the instructor before the next essay is composed.

1.7.3 Core Objective (LINK to selection)

General Outcomes Links

General Education Outcomes

Communication Skills

Communication Skills (CM): To include effective development, interpretation and expression of ideas through written, oral and visual communication

1.7.4 Measure of Success

The instructor will evaluate the students’ success through the Developmental Writing Rubric (see below).

At least sixty percent of Developmental Writing II students will be able to enroll in English 1301 if they score seventy-five percent or better on the post test and receive a score of three or better (1-4) on the Competency Exam administered to all students of Developmental 03.00 and 0301 at the completion of the course. The score is determined by holistic grading using the writing rubric (see below)

1. Contents: are ideas well developed and applied? Are the ideas sufficiently original? Is there a central purpose? Are concepts and terminology appropriate and clear? Are the critical thinking functions of the field or discipline used well?

   ____ Does the paper contain the type of content assigned?
   ____ Is the idea developed from the students own thinking?
1. Is the idea developed using appropriate thinking (e.g., summary, analysis, etc.)?
2. Supporting Details: Are there adequate and appropriate details (e.g., quotations, paraphrases, examples, stories, statistics, graphics, or a bibliography)? Do they support the paper’s central concepts? Are the details well explained and connected to the concepts?
3. Audience/Style: Does the writing show evidence of consideration of its audience? Does it use an appropriate academic or professional tone? Does it speak in an appropriate voice to its audience?
4. Organization: Does the paper have a central subject of argument? Are there clear, separate topics and/or sections that start with appropriate topic sentences?
Program Name: INRW.0320  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course  
INRW.0320, Integrated Reading & Writing II

1.1 Division-Department  
College Readiness

1.2 Course Type  
Academic General Education Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

1.4 Measured Outcome

1.4.1 Student Learning Outcomes  
Reading students will demonstrate that they can find the main idea in a paragraph or longer passage.

1.4.2 Learning Activities  
This will be accomplished through classroom lectures, oral discussions and practice exercises, readings from the textbook and computer generated exercises online from their reading lab. The instructor will model reading techniques for the students centered around locating the main ideas in paragraphs and longer materials. A pretest will be given during the first week of classes. Results will be handed to each student so they can see where they are weak in reading skills.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

**General Education Outcomes**

- Communication Skills (CM): To include effective development, interpretation and expression of ideas through written, oral and visual communication

1.4.4 Measure of Success  
Mastery tests covering the skill of finding the main idea will be given and their results discussed with them. Near the end of the semester a post test will be given to see if the student has mastered the skill. A final exam will be given that covers all the skills taught from the textbook during the semester. Students will also be tested online in their computer labs. Daily review tests will be given for that skill and written practice exercises will be graded and discussed in order to show the student where their answers were wrong. At least 60% of all the reading students will improve scores on the post test when compared to the pretest.

1.5 Measured Outcome

1.5.1 Student Learning Outcomes  
Students will be able to recognize the major and minor details in a paragraph or longer passage

1.5.2 Learning Activities
This will be accomplished through classroom lectures, oral discussions and practice exercises, readings from the textbook and computer generated exercises online from their reading lab. The instructor will model reading techniques for the students centered around locating the main ideas in paragraphs and longer materials. A pre-test will be given during the first week of classes. Results will be handed to each student so they can see where they are weak in reading skills.

1.5.3 Core Objective (LINK to selection)

General Outcomes Links

**General Education**

- Communication Skills: To include effective development, interpretation and expression of ideas through written, oral and visual communication

1.5.4 Measure of Success

Mastery tests covering the skill of finding major and minor details idea will be given and their results discussed with them. Near the end of the semester a post test will be given to see if the student has mastered the skill. A final exam will be given that covers all the skills taught from the textbook during the semester. Students will also be tested online in their computer labs. Daily review tests will be given for that skill and written practice exercises will be graded and discussed in order to show the student where their answers were wrong. At least 60% of the students will be able to recognize the supporting details in a paragraph or longer passage.

1.6 Measured Outcome

1.6.1 Student Learning Outcomes

Reading students will improve their overall comprehension scores in all areas of the six skills taught during this semester.

1.6.2 Learning Activities

This will be accomplished through classroom lectures, oral discussions and practice exercises, readings from the textbook and computer generated exercises online from their reading lab. The instructor will model reading techniques for the students centered around locating the main ideas in paragraphs and longer materials. A pre-test will be given during the first week of classes. Results will be handed to each student so they can see where they are weak in reading skills.

1.6.3 Core Objective (LINK to selection)

General Outcomes Links

**General Education**

- Communication Skills: To include effective development, interpretation and expression of ideas through written, oral and visual communication

1.6.4 Measure of Success

Mastery tests covering the skill of finding the main idea will be given and their results discussed with them. Near the end of the semester a post test will be given to see if the student has mastered the skill. A final exam will be
given that covers all the skills taught from the textbook during the semester. Students will also be tested online in their computer labs. Daily review tests will be given for that skill and written practice exercises will be graded and discussed in order to show the student where their answers were wrong. 70% of the reading students will improve their overall reading comprehension.

1.7 Measured Outcome

1.7.1 Student Learning Outcomes
Students will demonstrate writing skills (including grammar, mechanics, and spelling) in order to correctly convey information. This includes the following skills: ensuring the agreement of parts of speech such as nouns, pronouns and verbs; correct word choice: combining simple clauses into compound and complex constructions; appropriate transition words; parallel series within a sentence in number and construction; and avoiding redundancy.

1.7.2 Learning Activities
Examples and models will be used to demonstrate recognition of appropriate elements within a composition. Students will review grammatical sentence structure from adopted textbook, students portfolios, newspaper articles, and THEA practice material. Students will incorporate these ideas through essay writing and receive weekly feedback from the instructor before the next essay is composed.

1.7.3 Core Objective (LINK to selection)

General Outcomes Links

General Education Outcomes

Communication Skills

Communication Skills (CM): To include effective development, interpretation and expression of ideas through written, oral and visual communication

1.7.4 Measure of Success
The instructor will evaluate the students' success through the Developmental Writing Rubric (see below).

At least sixty percent of Developmental Writing II students will be able to enroll in English 1301 if they score seventy-five percent or better on the post test and receive a score of three or better (1-4) on the Competency Exam administered to all students of Developmental 03.00 and 0301 at the completion of the course. The score is determined by holistic grading using the writing rubric (see below)

1. Contents: are ideas well developed and applied? Are the ideas sufficiently original? Is there a central purpose? Are concepts and terminology appropriate and clear? Are the critical thinking functions of the field or discipline used well?
   ____ Does the paper contain the type of content assigned?
   ____ Is the idea developed from the students own thinking?
   ____ Is the idea developed using appropriate thinking (e.g., summary, analysis, etc.?)

2. Supporting Details: Are there adequate and appropriate details (e.g., quotations, paraphrases, examples, stories, statistics, graphics, or a bibliography)? Do they support the papers central concepts? Are the details well explained and connected to the concepts?

3. Audience/Style: Does the writing show evidence of consideration of its audience? Does it use an appropriat
academic or professional tone? Does it speak in an appropriate voice to its audience?
4. Organization: Does the paper have a central subject of argument? Are there clear, separate topics and/or sections that start with appropriate topic sentences?
Program Name: ITSE.1291 (TDCJ)  
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course  
ITSE 1291, Special Topics in Computer Programming

1.1 Division-Department  
TDCJ - Computer Information Technology

1.2 Course Type  
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links  

General Education  
Technology: Technology (TECH): Students will be able to utilize computer based technology in accessing information, solving problems and communicating

1.4 Measured Outcome  
Students will complete a java program.

1.4.1 Student Learning Outcomes  
The students will demonstrate an understanding of java program development and how it is used in the computer industry.

1.4.2 Learning Activities  
Instructor created exams will be used to evaluate student comprehension of the computer systems and software. Performance on course assignments will be used to determine the students comprehension of the computer programming development.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links  

General Education  
Technology: Technology (TECH): Students will be able to utilize computer based technology in accessing information, solving problems and communicating

1.4.4 Measure of Success  
70% of the evaluated students will demonstrate an ability of 70% mastery of the objective.

2 Course  
ITSE 1291, Special Topics in Java

2.1 Division-Department
2.2 Course Type

WECM Course (nonTransfer)

2.3 Required General Education Outcomes (LINK to selection)

2.4 Measured Outcome  The students will create a java progra
The students will create a java based program.

2.4.1 Student Learning Outcomes
The students will demonstrate an understanding of java program development and how it is used in the
computer industry.

2.4.2 Learning Activities
Instructor created exams will be used to evaluate student comprehension of the computer systems and
software. Performance on course assignments will be used to determine the students comprehension of the
computer programming development.

2.4.3 Core Objective (LINK to selection)

*General Outcomes Links*

| General Education Outcomes | Technology (TECH): Students will be able to utilize computer based technology
|---------------------------| in accessing information, solving problems and communicating |

2.4.4 Measure of Success

70% of the evaluated students will demonstrate an ability of 70% mastery of the objective.
Program Name: ITSE.1307 (TDCJ)
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
ITSE 1307, Introduction to C++ Programming

1.1 Division-Department
TDCJ - Computer Information Technology

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

<table>
<thead>
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<tbody>
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<td>Technology</td>
<td>Technology (TECH): Students will be able to utilize computer based technology in accessing information, solving problems and communicating</td>
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</table>

1.4 Measured Outcome
Students will create a C++ program.

1.4.1 Student Learning Outcomes
The students will demonstrate an understanding of C++ computer program development and how it is used in the computer industry.

1.4.2 Learning Activities
Instructor created exams, Chapter questions, and projects from the textbook will be used to evaluate student comprehension of C++ program development. Performance on course assignments will be used to determine the students comprehension of computer program development.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

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1.4.4 Measure of Success
70% of the evaluated students will demonstrate an ability of 70% mastery of the objective.
Program Name: ITSE.1325 (TDCJ)
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
ITSE 1325, Personal Computer Repair

1.1 Division-Department
TDCJ - Computer Information Technology

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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</table>

1.4 Measured Outcome  Students will be able to identify computer parts.
Students will be able to identify computer part from labeled parts.

1.4.1 Student Learning Outcomes
The student will be able to disassemble a PC, Re-assemble that PC, and install an Operating System on that PC.

1.4.2 Learning Activities
Students will over the course of the class take one of several computers apart, put them back together, and load one of our Windows operating systems on that computer.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

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1.4.4 Measure of Success
70% of the evaluated students will demonstrate an ability of 70% mastery of the objective.
Program Name: ITSE.1331 (TDCJ)
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
ITSE 1331, Visual Basic Programming

1.1 Division-Department
TDCJ - Computer Information Technology

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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<td>Technology</td>
<td>Technology (TECH): Students will be able to utilize computer based technology in accessing information, solving problems and communicating</td>
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</table>

1.4 Measured Outcome
Students will pass the final VB test.
Students will pass the Visual Basic final test with a 70% or higher average.

1.4.1 Student Learning Outcomes
The students will demonstrate an understanding of Visual Basic computer program development and how it is used in the computer industry to develop Visual Applications.

1.4.2 Learning Activities
Instructor created exams, Chapter questions, and projects from the textbook will be used to evaluate student comprehension of the Visual Basic program development. Performance on course assignments will be used to determine the students comprehension of computer program development.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

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1.4.4 Measure of Success
70% of the evaluated students will demonstrate an ability of 70% mastery of the objective.
Program Name: LGLA.1307  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course  
LGLA 1307, Law and the Legal Profession

1.1 Division-Department  
Business and Computer Science Division - LGLA Department

1.2 Course Type  
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

<table>
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<td>Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation</td>
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</tbody>
</table>

1.4 Measured Outcome

1.4.1 Student Learning Outcomes  
The student will be able to identify, define, recognize the following elements of Law and the Legal Profession.

1.4.2 Learning Activities  
Recognize and describe what a paralegal is and recognize attributes to a professional paralegal;  
Recognize and describe the major tasks that paralegals perform.

Recognize and describe the kinds of activities that paralegals are and are not legally permitted to perform.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success  
60 percent of the evaluated students will demonstrate an ability of 70% mastery of the objective
Program Name: LGLA.1345  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
LGLA 1345, Civil Litigation - LGLA Department

1.1 Division-Department
Business and Computer Science

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
The student will be able to identify, define, recognize the following elements in Civil Litigation.

1.4.2 Learning Activities
Differentiate, recognize, identify between civil and criminal procedure; Recognize or identify the different types of civil litigation cases; Differentiate between primary and secondary sources of law;
List alternatives to litigation; distinguish exclusive jurisdiction from concurrent jurisdiction. Recognize the different types of discoveries tools in an individual civil case.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
60 percent of the evaluated students will demonstrate an ability of 70% mastery of the objective.
Program Name: LGLA.2313
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
LGLA 2313, Criminal Law and Procedure

1.1 Division-Department
Business and Computer Science Division - LGLA Department

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
The student will be able to identify, define, recognize the following elements in Criminal Law and Procedure

1.4.2 Learning Activities
Identify or describe the sources of American criminal law; Recognize or describe six factors that constitute the basic elements of a crime. Identify or describe the three circumstances under Texas law when an individual is criminally responsible for another persons conduct

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
60 percent of the evaluated students will demonstrate an ability of 70% mastery of the objective.
Program Name: MATH.1314  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
MATH 1314, College Algebra

1.1 Division-Department
Science and Mathematics - Math

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Recognize and apply polynomial, rational, radical, exponential and logarithmic functions and solve related equations.

1.4.2 Learning Activities
Homework requiring written solutions of polynomial, rational, radical, exponential and logarithmic equations will be assigned and graded upon each student's written step-by-step justification for his/her solution, upon the logic of their written work, and upon the mechanics of a correct solution, the organization apparent in their solution, and the connection of their written work to the lesson at hand. Each principle will be applied to many slightly new situations. Students will need to choose among several approaches and to relate new material to older established mathematical methods. Solving problems on quizzes and tests will also be used to teach this outcome and will require the same format for problems.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success

(Change is we used radical and quadratic equations in FY16. Will use rational, radical, exponential, & logarithmic equations in FY17.)
Y CT: 70% for success / 75% are successful is goal
Y CM: 70% for success / 75% are successful is goal
Y EQ: 70% for success / 75% are successful is goal
Program Name: MATH.1324  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course  
MATH 1324, Mathematics for Business and Social Sciences

1.1 Division-Department  
Science and Mathematics - Math

1.2 Course Type  
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes  
Apply basic matrix operations, including linear programming methods, to solve application problems.

1.4.2 Learning Activities  
Homework requiring written matrix solutions of the linear programming problem will be assigned and graded upon each students written step-by-step justification (choices of pivots and row operations) for his/her solution upon the organization apparent in their solution, and the connection of their written work to the lesson at hand. The principles will be applied to several different situations including modeling of written problems and then solving with matrices. Logical choices of pivots and row operations, readable mechanics, correct numerical calculations, and accurate interpretation of results will be required. Solving problems on quizzes and tests will also be used to teach this topic and the same format for problems will be required.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

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Quantitative Skills of numerical data or observable facts resulting in informed conclusions

1.4.4 Measure of Success
Y CT: 70% for success / 60% of assessed students successful is the goal
Y CM: 70% for success / 60% of assessed students successful is the goal
Y EQ: 70% for success / 60% of assessed students successful is the goal
Program Name: MATH.1325
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
MATH 1325, Calculus for Business and Social Sciences

1.1 Division-Department
Science and Mathematics - Math

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Determine appropriate technique(s) of integration.

1.4.2 Learning Activities
Students will be assigned homework requiring them to solve indefinite integrals in order to use marginal cost, marginal revenue, and marginal profit functions to find total cost, revenue, and profit functions. They will apply definite integrals to find total income, present value and future value of continuous income streams and to find consumers surplus and/or producers surplus from demand and supply functions. Homework will include written solutions with step-by-step justification for the solutions. It will also be graded based upon the logic of the written work and upon the mechanics of a correct solution, the organization apparent in the solutions, and connection of the written work to the lesson at hand. Each application will be used in several slightly different situations. Students will need to choose among several formulas and methods and to relate new material to older established mathematical methods. Solving problems on quizzes and tests will also require the same format for problems.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

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Communication Skills
Communication Skills (CM): To include effective development, interpretation and expression of ideas through written, oral and visual communication

Empirical and Quantitative Skills
Empirical and Quantitative Skills (EQS): To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions

1.4.4 Measure of Success
Y CT: 65% for success / 65% of assessed students successful is goal
Y CM: 65% for success / 65% of assessed students successful is goal
Y EQ: 65% for success / 65% of assessed students successful is goal
Program Name: MATH.1332
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
MATH 1332, Contemporary Mathematics

1.1 Division-Department
Science and Mathematics - Math

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

Critical Thinking
Communication Skills
Empirical and Quantitative Skills

1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Students will be able to interpret and analyze various representations of data. Students will be able to reason, model, and draw conclusions or make decisions with mathematical, statistical & quantitative information.

1.4.2 Learning Activities
Assigned homework will include the use of scatter plots, frequency distributions, histograms, and/or graphs. Students will need to correctly interpret the different data types and to be able to understand and communicate using correct terminology. They will also calculate using data from graphs and other representations.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

Critical Thinking
Communication Skills
Empirical and Quantitative Skills

Critical Thinking Skills (CT): To include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information

Communication Skills (CM): To include effective development, interpretation and expression of ideas through written, oral and visual communication

Empirical and Quantitative Skills (EQS): To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
1.4.4 Measure of Success

Benchmark: 70%
Goal: 70% achieve benchmark.
1 Course
MATH 1342, Statistics

1.1 Division-Department
Science and Mathematics - Math

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

<table>
<thead>
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</table>

1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Compute and interpret empirical and theoretical probabilities using the rules of probabilities and combinatorics

1.4.2 Learning Activities
Homework requiring written solutions of problems computing and interpreting probabilities will be required and students will submit their work for evaluation based on their step-by-step justification for their solutions, upon the logic of their written work, and upon the mechanics of correct solution, the organization apparent in their solutions, and the connection of their written work to the lesson at hand. Each principle will be applied to several different situations. Students will need to choose among several formulas and to relate the new probability formulas to older established mathematical methods. This learning activity requires student to use quantitative measures to make informed decision regarding significance of data. Problem solutions of quizzes and tests will require the same format and thus are also part of the learning activities for this learning outcome

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

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Empirical and Quantitative Skills (EQS): To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions

1.4.4 Measure of Success

Y CT: 70% for success / goal is 70% of assessed students are successful
Y CM: 70% for success / goal is 70% of assessed students are successful
Y EQ: 70% for success / goal is 70% of assessed students are successful
Program Name: MATH.1350  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course  
MATH 1350, Fundamentals of Mathematics I

1.1 Division-Department  
Science and Mathematics - Math

1.2 Course Type  
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)  

General Outcomes Links  

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes  
The student should learn to apply the development of the real number system to problem solving and critical thinking.

1.4.2 Learning Activities  
Homework, Class Activities, and Tests will require students to submit written solutions to problems showing step-by-step justifications for their solutions. Work will also be evaluated on the logic of their written work, and upon the mechanics of a correct solution, the organization apparent in their solution, and the connection of the written work to the lesson at hand. Each principle will be applied to many slightly different situations. Students will need to choose among several approaches and to relate new material to older established mathematical methods.

1.4.3 Core Objective (LINK to selection)  

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1.4.4 Measure of Success

Y CT: 70% for success / 70% of assessed students will be successful is goal
Y CM: 70% for success / 80% of assessed students will be successful is goal
Y EQ: 70% for success / 80% of assessed students will be successful is goal
Program Name: MATH.1351  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
MATH 1351, Fundamentals of Mathematics II

1.1 Division-Department
Science and Mathematics - Math

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
The students should develop and use formulas for the perimeter, area, and volume for a variety of figures. The student should learn to use geometry and measurement to study and explain real problems.

1.4.2 Learning Activities
Homework, quizzes, presentations, and tests will require students to perform measurements, choose appropriate formulas for perimeter, area, and volume for a variety of figures, correctly modify units of measurement so that all units in a particular problem are compatible, calculate required variables with correct units, and relate these values to real world problems. Written work will be evaluated on each student's step-by-step justification for his/her work, upon the logic of their written analysis, and upon the mechanics of a correct conclusion, the organization apparent in their solution, and the connection of their work to the lesson at hand. Each formula will be applied to many slightly different situations. Students will need to choose among several approaches and to relate new material to older established mathematical models. Students will use these quantitative measures to make informed decisions regarding real world problems.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

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</table>

**1.4.4 Measure of Success**

- Y CT: 80%/80%
- Y CM: 80%/80%
- Y EQ: 80%/80%
Program Name: MATH.2312
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
MATH 2312, Pre-Calculus

1.1 Division-Department
Science and Mathematics - Math

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Solve right and oblique triangles.

1.4.2 Learning Activities
Homework requiring written solutions of right triangles and later oblique triangles will be assigned and graded upon each student’s written step-by-step justification for his/her solution, upon the logic of their written work, and upon the mechanics of a correct solution, the organization apparent in their solution, and the connection of their written work to the lesson at hand. Each solution method (Law of Sines and/or Law of Cosines or other trigonometric methods or algebraic methods) will be applied to several different situations. Students will need to choose among several approaches and to relate new material to older established mathematical methods. Solving problems on quizzes and tests will also require the same format for problems.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

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</table>
Quantitative Skills of numerical data or observable facts resulting in informed conclusions

1.4.4 Measure of Success

Y CT: 70% (tests) for successful rating / 75% of assessed students will be successful is the goal
Y CM: 70% (tests) for successful rating / 75% of assessed students will be successful is the goal
Y EQ: 70% (tests) for successful rating / 75% of assessed students will be successful is the goal
1 Course
MATH 2318, Linear Algebra

1.1 Division-Department
Science and Mathematics - Math

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Students will be able to carry out matrix operations, including inverses and determinants.

1.4.2 Learning Activities
Homework requiring matrix operations, matrix inversion, and the determinant of a matrix will be assigned and assessed based upon each student's written step-by-step justification for his/her solution, upon the logic of the written work, and upon the mechanics of a correct solution, the organization apparent in their solution, and the connection of their written work to the lesson at hand. Each principle will be applied to many slightly different problems. Students will need to choose among the several methods and approaches and to relate new material to older established mathematical methods from calculus and algebra. Solving problems on quizzes and tests will also require the same format for problems and thus will also be used as learning activities for this outcome.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

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Quantitative Skills of numerical data or observable facts resulting in informed conclusions

1.4.4 Measure of Success

CT: 70% benchmark for success on tests / 70% of assessed students will be successful is goal
CM: 70% benchmark for success on tests / 70% of assessed students will be successful is goal
EQ: 70% benchmark for success on tests / 70% of assessed students will be successful is goal
1 Course
MATH 2320, Differential Equations

1.1 Division-Department
Science and Mathematics - Math

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Solve ordinary differential equations and systems of equations using:
- Direct integration
- Separation of variables
- Reduction of order
- Methods of undetermined coefficients and variation of parameters
- Series solutions
- Operator methods for finding particular solutions
- Laplace transform methods

1.4.2 Learning Activities
Homework requiring written solutions of all the listed types of solutions of differential equations will be assigned and assessed based upon each student's written step-by-step justification for his/her solution, upon the logic of their written work, and upon the mechanics of a correct solution, the organization apparent in their solution, and the connection of their written work to the lesson at hand. Each principle will be applied to many slightly different problems. Students will need to choose among the several methods and approaches and to relate new material to older established mathematical methods from calculus and algebra. Solving problems on quizzes and tests will also require the same format for problems and thus will also be used as learning activities for this outcome.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links
General Education Outcomes

Critical Thinking

Critical Thinking Skills (CT): To include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information

Communication Skills

Communication Skills (CM): To include effective development, interpretation and expression of ideas through written, oral and visual communication

Empirical and Quantitative Skills

Empirical and Quantitative Skills (EQS): To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions

1.4.4 Measure of Success

CT: benchmark for success is 80% / goal is 85% of assessed students will be successful
CM: benchmark for success is 80% / goal is 85% of assessed students will be successful
EQ: benchmark for success is 80% / goal is 85% of assessed students will be successful
1 Course
MATH 2413, Calculus I

1.1 Division-Department
Science and Mathematics - Math

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Evaluate definite integrals using the Fundamental Theorem of Calculus.

1.4.2 Learning Activities
Students will be assigned to turn in homework problems evaluating definite integrals. They will be required to show step-by-step justifications for their results and to choose among the several integral formulas and to apply the Fundamental Theorem of Calculus in order to reach a correct solution. Their work will also be graded based on the logic of their written work, the organization apparent in their solution, and the connection of their written work to the lesson at hand. Each principle will be applied to many slightly different situations. Students will use both new and old material and will need to make and identify connections. Solving problems on quizzes and tests will also require the same format for problems and thus will also be part of their learning activities

1.4.3 Core Objective (LINK to selection)

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Quantitative Skills: the ability to work with numerical data or observable facts resulting in informed conclusions.

1.4.4 Measure of Success

CT: 70% of assessed students get 70% or higher on test(s) used in assessment of CT.
CM: 70% of assessed students get 70% or higher on test(s) used in assessment of CM.
EQ: 70% of assessed students get 70% or higher on test(s) used in assessment of EQ.
Program Name: MATH.2414
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
MATH 2414, Calculus II

1.1 Division-Department
Science and Mathematics - Math

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Use substitution, integration by parts, trigonometric substitution, partial fractions, and tables of anti-derivatives to evaluate definite and indefinite integrals.

1.4.2 Learning Activities
Methods of integration homework problems will be assigned and graded upon each students written step-by-step justification for his/her solution, upon the logic of their written work, and upon the mechanics of a correct solution, the organization apparent in their solution, and the connection of their written work to the lesson at hand. Each method will be applied to many different situations. Students will need to choose among several approaches (formulas, substitution and formulas, integration by parts, trigonometric substitution, partial fractions, or tables of anti-derivatives) more than one of which may work. Students will need to relate the new material to older established integration methods. Solving integral problems on quizzes and tests will also require the same format for problems and will thus also be a learning activity for students

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

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Communication Skills  
expression of ideas through written, oral and visual communication

Empirical and Quantitative Skills  
Empirical and Quantitative Skills (EQS): To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions

1.4.4 Measure of Success

Y CT:70%/70%
Y CM:70%/70%
Y EQ:70%/70%
Program Name: MATH.2415  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course  
MATH 2415, Calculus III

1.1 Division-Department  
Science and Mathematics - Math

1.2 Course Type  
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes  
Find extrema and tangent planes.

1.4.2 Learning Activities  
Homework requiring written solutions of problems asking for relative extrema of multivariable functions and for equations of tangent planes to three dimensional surfaces will be assigned and graded based upon each student's written step-by-step justification for his/her solution, upon the logic of their written work, and upon the mechanics of a correct solution, the organization apparent in their solution, and the connection of their written work to the lesson at hand. Each principle will be applied to many slightly different situations. Students will need to choose among several approaches and to relate new material to older established mathematical methods. Solving problems on quizzes and tests will also require the same format for problems, and quizzes and tests will also be part of the learning activities for this outcome.

1.4.3 Core Objective (LINK to selection)

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Empirical and Quantitative Skills

Empirical and Quantitative Skills (EQS): To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions

1.4.4 Measure of Success

CT: 70% on assessments of CT is benchmark for success / 75% of assessed students will be successful
CM: 70% on assessments of CM is benchmark for success / 75% of assessed students will be successful
EQ: 70% on assessments of EQ is benchmark for success / 75% of assessed students will be successful
1 Course
MCHN 1338, Basic Machine Shop I

1.1 Division-Department
Career and Technology - Mechanical Engineering Technology

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

<table>
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<td>Career Entry Skills</td>
<td>Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation</td>
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</tbody>
</table>

1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Demonstrate proper use of the lathe, milling machine, drill press, power saw, and bench grinder applying good housekeeping. Proper safety and preventative maintenance. Perform bench work including part layout, drilling, reaming, taping, press fitting, location of hole centers and surfaces. Set up power saws for cutoff operation. Demonstrate tooling maintenance, hazardous material handling.

1.4.2 Learning Activities
Instructor will guide students through basic machine operation and requirements.
Machine components
Machining techniques
Blueprint reading
Metrology
Safety in the workplace
Students will be required to fabricate parts through material selection and blueprint reading/project layout.
Demonstrate a working knowledge of each piece of machine equipment.
Complete independent instructor authorized projects to demonstrate innovation and project management skills:
Fabricate prototype parts
Measure parts and compare to specifications for quality control
Determine fit form and function of finished parts

1.4.3 Core Objective (LINK to selection)

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Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.4.4 Measure of Success

60% of evaluated students will complete the required machining projects and tests and demonstrate 80% mastery in creating fabricated parts
1 Course
MCHN 2344, Computerized Computer Numerical Control Programming

1.1 Division-Department
Career and Technology - Mechanical Engineering Technology

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes

General Outcomes

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<td>Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation</td>
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</table>

1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Write, simulate, edit, execute CNC programs: calculate feeds and speeds for various materials; select appropriate tooling
Demonstrate operations of CNC machine controls
Compare and contrast the differences between conventional and CNC machines
Utilize CNC machine applications for machining of complete units

1.4.2 Learning Activities
Students will learn basic CNC code formats and begin applying to create working programs. This will consist of instructor led lectures as well as textbook assignments, examples, and hands on independent assignments
Basic G code
Basic M code
Machine parts
Machine limitations
Tooling requirements
Basic math skill exercises
Machine components
Machining techniques
Blueprint reading
Metrology
Safety in the workplace
Students will be required to fabricate parts through material selection and blueprint reading/project layout.
Demonstrate a working knowledge of each piece of machine equipment.
Determine fit form and function of finished parts
Complete independent instructor authorized projects to demonstrate innovation and project management skills
Fabricate prototype parts
Measure parts and compare to specifications for quality control

1.4.3 Core Objective (LINK to selection)

General Outcomes

Links

General Education Outcomes

Personal Responsibility

Personal Responsibility (PR): To include the ability to connect choices, actions, and consequences to ethical decision-making

Technology

Technology (TECH): Students will be able to utilize computer based technology in accessing information, solving problems and communicating

Career Entry Skills

Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.4.4 Measure of Success

60% of evaluated students will complete the required machining projects and tests and demonstrate 80% mastery in creating fabricated parts
Program Name: MDCA.1313
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
MDCA 1313, Medical Terminology

1.1 Division-Department
Business and Computer Science - Medical Office

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
The student will be able to define, identify, analyze, terms and abbreviations which apply to the structural organization of the body.

1.4.2 Learning Activities
Define, identify, analyze, translate terms and abbreviations which apply to the structural organization of the body, including prefixes, suffixes, roots and combining forms. Identify correct pronunciations, spelling, and definitions of medical terms.

1.4.3 Core Objective (LINK to selection)

General Outcomes

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1.4.4 Measure of Success
60 percent of the evaluated students will demonstrate an ability of 70% mastery of the objective
1 Course
MDCA 1317, Procedures in a Clinical Setting

1.1 Division-Department
Workforce Education

1.2 Course Type
WECD Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Students will be able to ASSIST with routine and specialty office examinations and procedures including inventory control; perform medical and surgical asepsis and sterile techniques appropriate in ambulatory care settings; APPLY governmental health care guidelines; and RESPOND to medical emergencies.

1.4.2 Learning Activities
A pre-test or survey will be given to determine the students level of skills at the beginning of the course. At the conclusion of the course the pre-test results will be compared with a post test that will be created by the instructor based off of material from the CCMA practice test.

1.4.3 Core Objective (LINK to selection)
**Education Outcomes**

**Critical Thinking**
Critical Thinking Skills (CT): To include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information

**Teamwork**
Teamwork (TW): To include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

**Social Responsibility**
Social Responsibility (SR): To include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities

**Personal Responsibility**
Personal Responsibility (PR): To include the ability to connect choices, actions, and consequences to ethical decision-making

**Career Entry Skills**
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

### 1.4.4 Measure of Success

50% of students evaluated will score at least 70% of the learning activity method
Program Name: MUSI.1306
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
MUSI 1306, Music Appreciation

1.1 Division-Department
Speech and Fine Arts - Music

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Students will demonstrate sensitivity to differing points of view through a group project that results in a shared perspective.

1.4.2 Learning Activities
Students will be divided into groups and assigned a topic on which they will make an oral/visual presentation to the class. Each student will be assigned a particular area to cover (ex. historical background, musical output, etc.) based on the topic assigned.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
80% of the students will score at least 70% of the available points for this element.

1.5 Measured Outcome

1.5.1 Student Learning Outcomes
Students will be exposed to cultural performances.

1.5.2 Learning Activities
The students will be required to write a critique of the music and the performance of the concert attended. This critique will include an historical background of the musical literature, language and terminology appropriate to the subject matter, and supported opinion of the performance.

1.5.3 Core Objective (LINK to selection)

General Outcomes Links

General Education

Critical Thinking
Communication Skills

Critical Thinking Skills (CT): To include creative thinking, innovation, inquiry, analysis, evaluation and synthesis of information
Communication Skills (CM): To include effective development, interpretation and expression of ideas through written, oral and visual communication

1.5.4 Measure of Success
75% of the students will demonstrate a minimum rating of 4 on the critical thinking portion of the rubric, based on their ability to support their opinion of the performance.

1.6 Measured Outcome

1.6.1 Student Learning Outcomes
Students will demonstrate mastery of communication skills in appreciation of music.

1.6.2 Learning Activities
The students will be required to write a critique of the music and the performance of the concert attended. This critique will include an historical background of the musical literature, language and terminology appropriate to the subject matter, and supported opinion of the performance.

Students will be divided into groups and assigned a topic on which they will make an oral/visual presentation to the class. Each student will be assigned a particular area to cover (ex. historical background, musical output, etc.) based on the topic assigned.

1.6.3 Core Objective (LINK to selection)

General Outcomes Links

General Education

Communication Skills

Communication Skills (CM): To include effective development, interpretation and expression of ideas through written, oral and visual communication
1.6.4 Measure of Success
75% of the students will demonstrate a minimum rating of 4 on the communication portion of the rubric, based on effective application of writing skills in the report.

1.7 Measured Outcome

1.7.1 Student Learning Outcomes
Students will demonstrate social responsibility.

1.7.2 Learning Activities
The arts are vital components of a society's culture, health and vigor. Therefore, it is essential, whenever cultural events are available in a community, that those events be attended by a broad spectrum of the community's citizens. Attendance at the events demonstrates active social responsibility because it ensures that such activities can continue to be offered in the future. Therefore, students will be required to attend one outside musical event during the semester.

1.7.3 Core Objective (LINK to selection)

General Outcomes Links

| General Education Outcomes | Social Responsibility (SR): To include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities |

1.7.4 Measure of Success
90% of the students will rate 5 on the Social Responsibility portion of the rubric due to their attendance of the musical performance.
Program Name: MUSI.1307  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course  
MUSI 1307, Music Literature

1.1 Division-Department  
Speech and Fine Arts - Music

1.2 Course Type  
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes  
Students will demonstrate sensitivity to differing points of view through a group project that results in a shared perspective.

1.4.2 Learning Activities  
Students will be divided into groups and assigned a topic on which they will make an oral/visual presentation to the class. Each student will be assigned a particular area to cover (ex. historical background, musical output, etc.) based on the topic assigned.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
80% will score at least 70% of the available points for this element

1.5 Measured Outcome

1.5.1 Student Learning Outcomes
Students will be exposed to cultural performances.

1.5.2 Learning Activities
The students will be required to write a critique of the music and the performance of the concert attended. This critique will include an historical background of the musical literature, language and terminology appropriate to the subject matter, and supported opinion of the performance.

1.5.3 Core Objective (LINK to selection)

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1.5.4 Measure of Success
75% of the students will demonstrate a minimum rating of 4 on the Critical Thinking portion of the rubric, based on their ability to apply appropriate terminology and support their opinion of the performance.

1.6 Measured Outcome

1.6.1 Student Learning Outcomes
Students will demonstrate mastery of communication skills in appreciation of music

1.6.2 Learning Activities
The students will be required to write a critique of the music and the performance of the concert attended. This critique will include an historical background of the musical literature, language and terminology appropriate to the subject matter, and supported opinion of the performance. Students will be divided into groups and assigned a topic on which they will make an oral/visual presentation to the class. Each student will be assigned a particular area to cover (ex. historical background, musical output, etc.) based on the topic assigned.

1.6.3 Core Objective (LINK to selection)

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1.6.4 Measure of Success
75% of the students will demonstrate a minimum rating of 4 on the Communication portion of the rubric, based on effective application of writing skills in the reports.

1.7 Measured Outcome

1.7.1 Student Learning Outcomes
Students will demonstrate social responsibility.

1.7.2 Learning Activities
The arts are vital components of a society's culture, health and vigor. Therefore, it is essential, whenever cultural events are available in a community, that those events be attended by a broad spectrum of the community's citizens. Attendance at the events demonstrates active social responsibility because it ensures that such activities can continue to be offered in the future. Therefore, students will be required to attend one outside musical event during the semester.

1.7.3 Core Objective (LINK to selection)

General Outcomes Links

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1.7.4 Measure of Success
90% of the students will rate 5 on the Social Responsibility portion of the rubric due to their attendance of the musical performance.
Program Name: MUSI.1310  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course  
MUSI 1310, American Popular Music

1.1 Division-Department  
Speech and Fine Arts - Music

1.2 Course Type  
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes  
Students will demonstrate sensitivity to differing points of view through a group project that results in a shared perspective.

1.4.2 Learning Activities  
Students will be divided into groups and assigned a topic on which they will make an oral/visual presentation to the class. Each student will be assigned a particular area to cover (e.g. historical background, musical output, etc.) based on the topic assigned.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
80% of the students will demonstrate a minimum rating of 4 on the Teamwork portion of the rubric.

1.5 Measured Outcome

1.5.1 Student Learning Outcomes
Students will be exposed to cultural performances.

1.5.2 Learning Activities
The students will be required to write a critique of the music and the performance of the concert attended. This critique will include an historical background of the musical literature, language and terminology appropriate to the subject matter, and supported opinion of the performance.

1.5.3 Core Objective (LINK to selection)

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1.5.4 Measure of Success
75% of the students will demonstrate a minimum rating of 4 on the Critical Thinking portion of the rubric.

1.6 Measured Outcome

1.6.1 Student Learning Outcomes
Students will demonstrate mastery of communication skills in appreciation of music.

1.6.2 Learning Activities
The students will be required to write a critique of the music and the performance of the concert attended. This critique will include an historical background of the musical literature, language and terminology appropriate to the subject matter, and supported opinion of the performance. Students will be divided into groups and assigned a topic on which they will make an oral/visual presentation to the class. Each student will be assigned a particular area to cover (ex. historical background, musical output, etc.) based on the topic assigned.

1.6.3 Core Objective (LINK to selection)

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1.6.4 Measure of Success
75% of the students will demonstrate a minimum rating of 4 on the Communication portion of the rubric, basec
on their operational writing skills and/or effective oral presentation skills.

1.7 Measured Outcome

1.7.1 Student Learning Outcomes

Students will demonstrate social responsibility.

1.7.2 Learning Activities

The arts are vital components of a society's culture, health and vigor. Therefore, it is essential, whenever cultural events are available in a community, that those events be attended by a broad spectrum of the community's citizens. Attendance at the events demonstrates active social responsibility because it ensures that such activities can continue to be offered in the future. Therefore, students will be required to attend one outside musical event during the semester.

1.7.3 Core Objective (LINK to selection)

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1.7.4 Measure of Success

90% of the students will rate 5 on the Social Responsibility portion of the rubric due to their attendance of the musical performance.
Program Name: NURA.1160
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
NURA 1160, Clinical Nursing Assistant/Aide and Patient Care Asst/Aide

1.1 Division-Department
Workforce Education

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
The student will be able to APPLY specialized occupational theory, skills and concepts under direct supervisic of a clinical instructor.

1.4.2 Learning Activities
A survey activity will be given to the students at the beginning of the clinical class to assess their knowledge o the skills that they will need to be proficient in at the conclusion of the clinical. The students will then be required to perform all of the skills listed on the CNA DADS checkoff list during the course of the clinical. At the conclusion of the class a review of the completed check list regarding skill level improvement or knowledge wi be compared with the original survey.

1.4.3 Core Objective (LINK to selection)

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Communication Skills Communication Skills (CM): To include effective development, interpretation and expression of ideas through written, oral and visual communication

Personal Responsibility Personal Responsibility (PR): To include the ability to connect choices, actions, and consequences to ethical decision-making

Career Entry Skills Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.4.4 Measure of Success

50% of students evaluated will score at least 70% of the learning activity method.
Program Name: NURA.1401
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
NURA 1401, Nurse Aide for Health Care

1.1 Division-Department
Workforce Education

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
The student will be able to APPLY critical thinking skills and effective communication methods to ASSIST patients in acute, sub-acute and long-term care facilities.

1.4.2 Learning Activities
A term paper will be assigned and the results scored and turned in as evidentiary material regarding improved literacy skills.

1.4.3 Core Objective (LINK to selection)

General Outcomes
Links

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in a target occupation

1.4.4 Measure of Success

50% of students evaluated will score at least 70% of the learning activity method.
Program Name: PHIL.2306
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
PHIL 2306, Introduction to Ethics

1.1 Division-Department
Social Sciences - Philosophy

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

General Education  General Education Outcomes

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<td>Personal Responsibility</td>
<td>Personal Responsibility (PR): To include the ability to connect choices, actions, and consequences to ethical decision-making</td>
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</tbody>
</table>

1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Read, analyze, and critique philosophical texts.

1.4.2 Learning Activities
Students may synthesize concepts, ethical approaches and applications of ethical criterion through assigned texts and through major media.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

General Education  General Education Outcomes

| Critical Thinking | Critical Thinking Skills (CT): To include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information |

1.4.4 Measure of Success
65% of the students will score 70% or higher

1.5 Measured Outcome
1.5.1 Student Learning Outcomes
Define and appropriately use important terms such as relativism, virtue, duty, rights, utilitarianism, natural law, egoism, altruism, autonomy, and care ethics.

1.5.2 Learning Activities
Students will analyze a specific social ethical dilemma of the day and define, explain and delineate how the various ethical decision positions could affect the impact of that specific social dilemma.

1.5.3 Core Objective (LINK to selection)

General Outcomes Links

General
Education
Outcomes

Communication Skills
Communication Skills (CM): To include effective development, interpretation and expression of ideas through written, oral and visual communication

1.5.4 Measure of Success
65% of the students will score 70% or higher

1.6 Measured Outcome

1.6.1 Student Learning Outcomes
Demonstrate knowledge of major arguments and problems in ethics.

1.6.2 Learning Activities
Students will apply specific critical decision making criterion to a major ethical issue facing the culture/society of this day. Students will analyze how that unique position, if society driven, could either improve or harm culture.

1.6.3 Core Objective (LINK to selection)

General Outcomes Links

General
Education
Outcomes

Communication Skills
Communication Skills (CM): To include effective development, interpretation and expression of ideas through written, oral and visual communication

Social Responsibility
Social Responsibility (SR): To include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities

1.6.4 Measure of Success
70% of the students will score 20% higher on pre-course tool given at the beginning and at the end for the term

1.7 Measured Outcome

1.7.1 Student Learning Outcomes
Apply course material to various aspects of life.
1.7.2 Learning Activities
Students will be challenged to be introspective on major moral issues impacting culture/society today and then discern & articulate how course material affected their initial thought position.

1.7.3 Core Objective (LINK to selection)

General Outcomes Links

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1.7.4 Measure of Success
70% of the students will score 20% higher on pre-course tool given at the beginning and at the end for the term
Program Name: PHTC.1313
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
PHTC 1313, History of Photography

1.1 Division-Department
Speech and Fine Arts - Photography

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Students will describe the aesthetic and technical evolution of photography

1.4.2 Learning Activities
Written report that effectively communicates, per standard writing criteria, an understanding of the aesthetic and technical evolution of photography

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

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1.4.4 Measure of Success
Eighty percent of students who generate a satisfactory level of at least 85% of the 100% points available on the rubric.

1.5 Measured Outcome
1.5.1 Student Learning Outcomes
Students will analyze and compare the work of significant photographic practitioners through writing. Students will produce written research papers, along with taking photographs in and around the community to help support the paper, and use as visual aids to present to the class for critical discussion to the class.

1.5.2 Learning Activities
Think Piece Paper

1.5.3 Core Objective (LINK to selection)

General Outcomes Links

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1.5.4 Measure of Success
Eighty percent of students will produce a presentation to the class for assessment will achieve at least 85% of the total points available on the rubric.

1.6 Measured Outcome

1.6.1 Student Learning Outcomes
Student will demonstrates evidence of adjustment in own attitudes and beliefs because of working within and learning from diversity of communities and cultures. Promotes others' engagement with diversity.

1.6.2 Learning Activities
Reports requires students to research, write, and document to MLA/APA standards along with students will produce written research papers, along with taking photographs in and around the community to help support the paper, and use as visual aids to present to the class for critical discussion to the class.

1.6.3 Core Objective (LINK to selection)

General Outcomes Links

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1.6.4 Measure of Success
Student will produce written research papers to class for assessment to achieve 85% of the total points available on the rubric.
Program Name: PHTC.1411  
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course 
PHTC 1411, Digital Photography Certificate

1.1 Division-Department
Speech and Fine Arts - Photography

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Students will be able to manipulate a captured image using industry-standard software to manipulate technical and composition elements a way that meets minimum standards of professional quality.

1.4.2 Learning Activities
Student will produce a minimum number of photographs that will be evaluated using a rubric that assigns points for technical elements of focus, contrast, discoloration, lighting, and re-sizing; and composition elements of center of interest, angle of interest, message of photo, framing, mood, and leading lines.

1.4.3 Core Objective (LINK to selection)

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</table>
1.4.4 Measure of Success
Eighty percent of students who produce an adequate number of photographs for assessment will achieve at least 85% of the 50 points available on the rubric.

1.5 Measured Outcome

1.5.1 Student Learning Outcomes
Create photographic images

1.5.2 Learning Activities
Through class discussion, demonstration, and hands-on practice, students will learn the basics of effective photography, as well as components of the digital camera and software to achieve optimum aesthetic quality in their photographs.

1.5.3 Core Objective (LINK to selection)

General Outcomes Links

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1.5.4 Measure of Success
Student will produce photographs, along with continuing to build a portfolio to class for assessment to achieve 85% of the total points available on the rubric.

1.6 Measured Outcome

1.6.1 Student Learning Outcomes
Compose a communicative image. Student will demonstrates evidence of adjustment in own attitudes and beliefs because of working within and learning from diversity of communities and cultures. Promotes others’ engagement with diversity.

1.6.2 Learning Activities
Through class discussion, demonstration, and hands-on practice, students will learn the basics of effective photography, along with taking photographs in and around the community to help build up the portfolio, and use as visual aids to present to the class for critical discussion to the class.

1.6.3 Core Objective (LINK to selection)

General Outcomes Links

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Social Responsibility: To include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities

1.6.4 Measure of Success
Student will produce photographs, along with continuing to build a portfolio to class for assessment to achieve 85% of the total points available on the rubric.

1.7 Measured Outcome

1.7.1 Student Learning Outcomes
Present work for critical discussion.

1.7.2 Learning Activities
Students taking photographs to help build up the portfolio, and use as visual aids to present to the class for critical discussion to the class

1.7.3 Core Objective (LINK to selection)

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1.7.4 Measure of Success
Eighty percent of students will produce a presentation to the class for assessment will achieve at least 85% of the total points available on the rubric.
Program Name: PHTC.1443  
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course

1.1 Division-Department
Speech and Fine Arts - Photography

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Students will gained a critical understanding and proficient articulation of the language of photography

1.4.2 Learning Activities
Students will produce a minimum number of photographs that will be evaluated using a rubric that assigns points for technical elements of focus, contrast, discoloration, lighting, and re-sizing; and composition element of center of interest, angle of interest, message of photo, framing, mood, and leading lines.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

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1.4.4 Measure of Success
Eighty percent of students who produce an adequate number of photographs for assessment will achieve at least 85% of the 50 points available on the rubric.

1.5 Measured Outcome

1.5.1 Student Learning Outcomes
Students will demonstrate creative visual thinking in producing a portfolio of inter-related images.

1.5.2 Learning Activities
Students will produce a portfolio of photographs that will be evaluated using a rubric that assigns points for technical elements of focus, contrast, discoloration, lighting, and re-sizing; and composition elements of center of interest, angle of interest, message of photo, framing, mood, and leading lines.

1.5.3 Core Objective (LINK to selection)

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1.5.4 Measure of Success
Eighty percent of students who produce an adequate number of photographs for the portfolio for assessment will achieve at least 85% of the 300 points available on the rubric.

1.6 Measured Outcome

1.6.1 Student Learning Outcomes
Students will also be able to demonstrate an awareness of contemporary aesthetic, legal and ethical considerations in digital imaging.

1.6.2 Learning Activities
Through class discussion, demonstration, and hands-on practice, students will learn the basics of effective photography, as well as components of the digital camera and software to achieve optimum aesthetic quality in their photographs.

1.6.3 Core Objective (LINK to selection)

General Outcomes Links

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Critical Thinking

analysis, evaluation and synthesis of information

Communication Skills

Communication Skills (CM): To include effective development, interpretation and expression of ideas through written, oral and visual communication

1.6.4 Measure of Success

Eighty percent of students will produce a presentation to the class for assessment will achieve at least 85% of the total points available on the rubric.
Program Name: PHYS.1401  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course  
PHYS 1401, College Physics I

1.1 Division-Department  
Science and Mathematics - Physics

1.2 Course Type  
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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<td>Empirical and Quantitative Skills (EQS): To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions</td>
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1.4 Measured Outcome

1.4.1 Student Learning Outcomes  
SLO #1: Determine the components of linear motion and especially motion under conditions of constant acceleration.

1.4.2 Learning Activities  
The student will perform a laboratory experiment to measure the acceleration of gravity on earth. The student will form a plan of action, collect data, process data, perform calculations, and analyze the results to obtain a value for the acceleration of gravity on earth.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

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1.4.4 Measure of Success

70% of students will score Exemplary or Acceptable.

For CT, student laboratory data sheets will be evaluated and assessed using the following rubric:
Exemplary: Student obtains useful data, completes data analysis and obtains values for the acceleration of gravity within 10% of the accepted value.
Acceptable: Student obtains useful data, completes data analysis, and obtains values for gravity but with more than 10% error.
Unacceptable: Student obtains faulty data or fails to complete data analysis in determining gravity.

For EQ, the student will be scored on correct use of equations, labeling of units, and reporting calculations with correct significant figures. Score will be based on the following rubric:
Exemplary: Calculations will be completed accurately, in a proper format with correct significant figures and units, and within 10% of the accepted value.
Acceptable: Calculations will be completed accurately, with some errors in format and significant figures or units, and within 10% of the accepted value.
Unacceptable: Calculations will not be completed accurately; there will be significant format errors and numerous errors in significant figures and units, with a final numerical error causing the result to fail to come within 10% of the accepted value.

1.5 Measured Outcome

1.5.1 Student Learning Outcomes

SLO #12: Demonstrate techniques to set up and perform experiments, collect data from those experiments, and formulate conclusions from an experiment.

1.5.2 Learning Activities

Each student will analyze and report data related to measuring the acceleration of gravity on earth. Each student will report the results in a written laboratory report containing an introduction, data, analysis and a conclusion. The lab report will be scored with approximately 10% for the introduction, 50% for data, 15% for calculations, and 25% for the conclusion.

Students will work in groups performing the experiment to measure the acceleration of gravity on earth. Each group member will perform activities to measure pertinent data, then share the data with the other group members and reach a consensus on the experimental result.

1.5.3 Core Objective (LINK to selection)

*General Outcomes Links*

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1.5.4 Measure of Success

For CM (Communication), at least 70% of students assessed will score Exemplary or Acceptable on the evaluation instrument (the lab report), where the rubric for evaluating the report follows.
Exemplary: Score at least 90% on the lab report.
Acceptable: Score at 70% on the lab report.
Unacceptable: Score less than 70% on the lab report.
For TW (Teamwork), at least 70% of students assessed will demonstrate Exemplary or Acceptable ratings based on the following rubric.

Exemplary: The student will personally measure several experimental quantities and report these to the group. The student will independently perform calculations to contribute to the group, and the student will confirm in writing that they concur with the group results.

Acceptable: The student will personally measure at least one experimental quantity and report this to the group. The student will confirm calculations done by other group members, and confirm in writing that he/she concurs with the group results.

Unacceptable: The student will not personally measure any experimental data or will fail to support the group results.
Program Name: PHYS.1402  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course  
PHYS 1402, College Physics II

1.1 Division-Department  
Science - Physics

1.2 Course Type  
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes  
SLO #8: Demonstrate techniques to set up and perform experiments, collect data from those experiments, and formulate conclusions from an experiment.

1.4.2 Learning Activities  
The student will analyze and report data from a laboratory experiment related to Ohm's Law. The student will report the results in a written laboratory report containing an introduction, data, analysis, and a conclusion. The lab report will be scored with approximately 10% for the introduction, 50% for data, 15% for calculations and 25% or the conclusion.

Students will work in groups performing an experiment to build an electric circuit to measure current, voltage and resistance. Ohm's Law relates these quantities. Each group member will perform activities to measure pertinent data, then share the data with the other group members and reach a consensus on the experimental result.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links
Communication Skills

Communication Skills (CM): To include effective development, interpretation and expression of ideas through written, oral and visual communication

Teamwork

Teamwork (TW): To include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

1.4.4 Measure of Success

CM: 70% will score Exemplary or Acceptable on CM based on the rubric:
Exemplary: Score at least 90% on the laboratory report.
Acceptable: Score at least 70% on the laboratory report.
Unacceptable: Score less than 70% on the lab report.

TW: 70% will score Exemplary or Acceptable on TW based on the following rubric.
Exemplary: The student will personally measure several experimental quantities and report these to the group. The student will independently perform calculations to contribute to the group, and the student will confirm in writing that they concur with the group results.
Acceptable: The student will personally measure at least one experimental quantity and report this to the group will confirm calculations done by other group members, and confirm in writing that they concur with the group results.
Unacceptable: The student will not personally measure any experimental data or will fail to support the group results.

1.5 Measured Outcome

1.5.1 Student Learning Outcomes

Apply Kirchhoffs Rules to analysis of circuits with potential sources, capacitance, inductance, and resistance, including parallel and series capacitance and resistance.

1.5.2 Learning Activities

For Critical Thinking (CT): The student will use principles of electric circuits to build a circuit, collect data, analyze data and verify Ohm's Law.

For Empirical and Quantitative Reasoning (EQ): The student will use the data to perform calculations with Ohm's Law.

1.5.3 Core Objective (LINK to selection)

General Outcomes Links

General Education Outcomes

Critical Thinking

Critical Thinking Skills (CT): To include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information

Empirical and Quantitative Skills

Empirical and Quantitative Skills (EQS): To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions

1.5.4 Measure of Success

CT: 70% will demonstrate Exemplary or Acceptable ratings on CT using the following rubric.
Exemplary: The student obtained useful data, completed data analysis and obtained values for the resistance within 10% of the accepted value.
Acceptable: The student obtained useful data, completed data analysis, and obtained values for resistance but with more than 10% error.
Unacceptable: The student obtained faulty data or failed to complete data analysis in determining resistance.
EQ: 70% will demonstrate Exemplary or Acceptable ratings on EQ using the following rubric. Exemplary: Calculations were completed accurately, in a proper format with correct significant figures and unit and within 10% of the accepted value. Acceptable: Calculations were completed accurately, with some errors format and significant figures, but results were within 10% of the accepted value. Inadequate: Calculations were not completed accurately, there will be significant format errors, or numerous errors in significant figures and/or units, or a final numerical error of more than 10%.
Program Name: PHYS.1415
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
PHYS 1415, Physical Science I

1.1 Division-Department
Science and Mathematics - Physics

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
The student will apply scientific theories to analyze data collected in lab and report results in written form.

1.4.2 Learning Activities
The student will work in small groups to carry out or conduct an experiment and evaluate the reasonableness of their results. An oral or written presentation will be required and the accuracy, depth of content, and/or the connection of the content with the main topic will be assessed. The student will also be assessed on the synthesis of the project within the group. The Physical Science Department will use a different laboratory experience and report to assess this outcome than the one they used last year.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

<table>
<thead>
<tr>
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<tbody>
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</tbody>
</table>
Empirical and Quantitative Skills (EQS): To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.

Teamwork (TW): To include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal.

1.4.4 Measure of Success

Benchmark is 70%. Goal is 70% reach benchmark.
Program Name: PHYS.1417
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
PHYS 1417, Physical Science II

1.1 Division-Department
Science and Mathematics - Physics

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
The student will apply scientific theories to analyze data collected in lab and report results in written form.

1.4.2 Learning Activities
The student will work in small groups to carry out or conduct an experiment and evaluate the reasonableness their results. An oral or written presentation will be required and the accuracy, depth of content, and/or the connection of the content with the main topic will be assessed. The student will also be assessed on the synthesis of the project within the group.

1.4.3 Core Objective (LINK to selection)

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</tbody>
</table>
Quantitative Skills  
Teamwork

of numerical data or observable facts resulting in informed conclusions

Teamwork (TW): To include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

1.4.4 Measure of Success

Benchmark is 70%. Goal is 70% reach benchmark
1 Course
PHYS 2425, University Physics I

1.1 Division-Department
Science - Physics

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
SLO #13: Prepare laboratory reports that clearly communicate experimental information in a logical and scientific manner

1.4.2 Learning Activities
The student will analyze and report data related to measuring the acceleration of gravity on earth. The student will report the results in a written laboratory report containing an introduction, data, analysis, and a conclusion.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

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1.4.4 Measure of Success
70% will score Exemplary or Acceptable on Communication (CM) using the following assessment and rubric. The student will report the results in a written laboratory report containing introduction (10% of score), data
(50% of score), analysis (15% for calculations), and conclusion (25% of score). Exemplary: score at least 90\% on the lab report. Acceptable: score at least 70\% on the lab report. Inadequate: score less than 70\% on the lab report.

1.5 Measured Outcome

1.5.1 Student Learning Outcomes
SLO #17: Design fundamental experiments involving principles of classical mechanics.

1.5.2 Learning Activities
The student will perform an experiment to measure the acceleration of gravity on earth. The student will form a plan of action, collect data, process data and analyze the results to obtain a value for the acceleration of gravity on earth.

1.5.3 Core Objective (LINK to selection)

General Outcomes Links

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</table>

1.5.4 Measure of Success
Critical Thinking (CT): At least 70\% of assessed students will be rated Exemplary or Acceptable when laboratory data sheets are evaluated using the following rubric.
Exemplary: Obtains useful data, completes data analysis and obtains values for the acceleration of gravity within 10\% of the accepted value.
Acceptable: Obtains useful data, completes data analysis, but obtains values for acceleration of gravity with more than 10\% error.
Unacceptable: Obtains faulty data or fails to complete data analysis.

1.6 Measured Outcome

1.6.1 Student Learning Outcomes
Evaluate the accuracy of physical measurements and the potential sources of error in the measurements.

1.6.2 Learning Activities
Empirical and Quantitative Reasoning (EQ): The student will use data gathered in the lab to perform calculations related to measuring the acceleration of gravity on Earth.

1.6.3 Core Objective (LINK to selection)

General Outcomes Links

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</table>
1.6.4 Measure of Success
At least 70% of assessed students will demonstrate Exemplary or Acceptable ratings on EQ. The student will use data gathered in the lab to perform calculations related to measuring the acceleration of gravity on Earth. The student will be scored on correct use of equations, labeling of units, and reporting calculations with correct significant figures using the following rubric.

Exemplary: Calculations will be completed accurately, in a proper format with correct significant figures and units, and results will be within 10% of the accepted value.

Acceptable: Calculations will be completed accurately, with some errors in format and significant figures, but results will fall within 10% of the accepted value.

Inadequate: Calculations will not be completed accurately, or there will be significant format errors, numerous errors in significant figures, or a final numerical error.

1.7 Measured Outcome

1.7.1 Student Learning Outcomes
SLO #14: Conduct basic laboratory experiments involving principles of classical mechanics.

1.7.2 Learning Activities
Students will work in groups performing an experiment to measure the acceleration of gravity. Each group member will perform activities to measure pertinent data, then share the data with the other group members and reach a consensus on the experimental result.

1.7.3 Core Objective (LINK to selection)

General Outcomes Links

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<td>Teamwork (TW): To include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal</td>
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1.7.4 Measure of Success
At least 70% of assessed students will demonstrate Exemplary or Acceptable ratings based on the following rubric.

Exemplary: The student will personally measure several experimental quantities and report these to the group. The student will independently perform calculations to contribute to the group, and the student will confirm in writing that they concur with the group results.

Acceptable: The student will personally measure at least one experimental quantity and report this to the group, and the student will confirm calculation done by other group members, and confirm in writing that they concur with the group results.

Inadequate: The student will not personally measure any experimental data or will fail to support the group results.
1 Course
PHYS 2426, University Physics II

1.1 Division-Department
Science and Mathematics - Physics

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
SLO #8: Prepare laboratory reports that clearly communicate experimental information in a logical and scientific manner.

1.4.2 Learning Activities
The student will analyze and report data related to Ohm's Law. The student will report the results in a written laboratory report containing an introduction, data, analysis, and a conclusion.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

General Education General Education Outcomes
Communication Skills Communication Skills (CM): To include effective development, interpretation and expression of ideas through written, oral and visual communication

1.4.4 Measure of Success
The lab report will be scored with approximately 10% for the introduction, 50% for data, 15% for calculations, and 25% for the conclusion.
At least 70% of assessed students will score Exemplary or Acceptable based on the following rubric. 
Exemplary: Score at least 90% on the lab report. 
Acceptable: Score at least 70% on the lab report. 
Inadequate: Score less than 70% on the lab report.

1.5 Measured Outcome

1.5.1 Student Learning Outcomes
SLO #4: Apply Kirchhoff's Rules to analysis of circuits with potential sources, capacitance, inductance, and resistance, including parallel and series capacitance and resistance.

1.5.2 Learning Activities
The student will use principles of electric circuits to build a circuit, collect data, analyze data and verify Ohm's Law.

1.5.3 Core Objective (LINK to selection)

General Outcomes Links

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1.5.4 Measure of Success
At least 70% of assessed student will demonstrate Exemplary or Acceptable ratings based on the following rubric. 
Exemplary: Student obtains useful data, completes data analysis and obtains values for the resistance within 10% of the accepted value. 
Acceptable: Student obtains useful data, completes data analysis, but obtains values for resistance with more than a 10% error. 
Unacceptable: Student obtains faulty data or fails to complete data analysis in determining the resistance.

1.6 Measured Outcome

1.6.1 Student Learning Outcomes
Conduct basic laboratory experiments involving electricity and magnetism.

1.6.2 Learning Activities
For Empirical & Quantitative Reasoning (EQ): Students will use data gathered in the lab to perform calculation using Ohms’ Law.

For Teamwork (TW): Students will perform lab experiments in groups of 2 to 4 students. Participation of each student in the data collection will be required. Student will be required to analyze data and relate results to theory discussed in lecture.

1.6.3 Core Objective (LINK to selection)

General Outcomes Links

<table>
<thead>
<tr>
<th>General</th>
<th>General Education</th>
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</table>
**Education Outcomes**

Empirical and Quantitative Skills (EQS): To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.

Teamwork (TW): To include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal.

### 1.6.4 Measure of Success

**EQ:** 70% will demonstrate Exemplary or Acceptable ratings on EQ based on the following. The student will use data gathered in the lab to perform calculations related to series and parallel circuits. The student will be scored on correct use of equations, labeling of units, and reporting calculations with correct significant figures. Exemplary on EQ: Calculations will be completed accurately, in a proper format with correct significant figures and units, and results will fall within 10% of the accepted value. Acceptable on EQ: Calculations will be completed accurately, with some errors in format and significant figure but results are within 10% of the accepted value. Inadequate on EQ: Calculations will not be completed accurately, there will be significant format errors, numerous errors in significant figures, or a final numerical error greater than 10%.

**TW:** 70% will demonstrate Exemplary or Acceptable ratings on TW based on the following. Students will work in groups performing an experiment to build an electric circuit to measure current, voltage and resistance. Each group member will perform activities to measure pertinent data, then share the data with the group members and reach a consensus on the experimental result. Each student will be rated based on the following rubric. Exemplary on TW: The student will personally measure several experimental quantities and report these to the group, the student will independently perform calculations to contribute to the group, and the student will confirm in writing that he/she concurs with the group results. Acceptable on TW: The student will personally measure at least one experimental quantity and report this to the group, will confirm calculations done by group members, and confirm in writing that he/she concurs with the group results. Inadequate on TW: The student will not personally measure any experimental data or will fail to support the group results.
Program Name: POFI.1204 (TDCJ)
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
POFI 1204, Computer Fundamentals

1.1 Division-Department
TDCJ - Computer Information Technology

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

<table>
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<td>Technology</td>
<td>Technology (TECH): Students will be able to utilize computer based technology in accessing information, solving problems and communicating</td>
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</table>

1.4 Measured Outcome
Students will be able to identify computer parts.
Student will identify various computer parts from labeled computer parts.

1.4.1 Student Learning Outcomes
The students will demonstrate an understanding of the computer systems, computer hardware, basic computer procedures, used in businesses and other segments of today's society.

1.4.2 Learning Activities
Instructor created exams will be used to evaluate student comprehension of the computer systems and software. Performance on course assignments will also be used to determine the students comprehension of the computer hardware, the computer system, and the computers operations and procedures.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

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</table>

1.4.4 Measure of Success
70% of the evaluated students will demonstrate an ability of 70% mastery of the objective.
Program Name: POFI.1301 (TDCJ)
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
POFI 1301, Computer Applications I

1.1 Division-Department
TDCJ - Computer Information Technology

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome Students will create a M.S. Office document using software.
Students will create a document using the M.S. Office application software.

1.4.1 Student Learning Outcomes
The students will demonstrate an understanding of the computer software usage needed in creating, saving, editing, and displaying: text documents, spreadsheet documents, database files, and the integration of this software in businesses and other segments of today's society.

1.4.2 Learning Activities
Instructor created exams will be used to evaluate student comprehension of the computer systems and software. Performance on course assignments will also be used to determine the students comprehension of the computer operations and the understanding of software applications.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

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1.4.4 Measure of Success
70% of the evaluated students will demonstrate an ability of 70% mastery of the objective.
Program Name: POFI.2301
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
POFI 2301, Word Processing I

1.1 Division-Department
Business and Computer Science

1.2 Course Type
WECD Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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<td>Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation</td>
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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Given a workplace scenario requiring a written solution, assess the communication purpose and then prepare the materials that achieve the goal efficiently and effectively.

1.4.2 Learning Activities
Prepare a document for a sales meeting. Create a letter that includes a table detailing specific information and create a SmartArt organizational chart to be included with the document.

1.4.3 Core Objective (LINK to selection)

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in a target occupation

1.4.4 Measure of Success

70% of the evaluated students will demonstrate an ability of 70% mastery of the objective.
Program Name: POFM.1300
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
POFM 1300, Medical Coding

1.1 Division-Department
Business and Computer Science Division  Medical Office Technology

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Recognize and Interpret symbols, coding conventions and guidelines used.

1.4.2 Learning Activities
Recognize, Interpret, identify, translate coding conventions and guidelines

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

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1.4.4 Measure of Success
60 percent of the evaluated students will demonstrate an ability of 70% mastery of the objective.

1.5 Measured Outcome

1.5.1 Student Learning Outcomes
Classify the major sections found in the CPT and ICD-10-CM code books.

1.5.2 Learning Activities
Classify, define, identify the major sections in the CPT and ICD 10-CM code Books

1.5.3 Core Objective (LINK to selection)

General Outcomes
Links

General Education General Education Outcomes

Critical Thinking
Critical Thinking Skills (CT): To include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information

Career Entry Skills
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.5.4 Measure of Success
60 percent of the evaluated students will demonstrate an ability of 70% mastery of the objective.

1.6 Measured Outcome

1.6.1 Student Learning Outcomes
Analyze cases and apply the correct CPT and ICD-10-CM codes.

1.6.2 Learning Activities
Analyze, identify, interpret, the correct CPT and ICD-10-CM codes.

1.6.3 Core Objective (LINK to selection)

General Outcomes
Links

General Education General Education Outcomes

Critical Thinking
Critical Thinking Skills (CT): To include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information

Career Entry Skills
Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.6.4 Measure of Success
60 percent of the evaluated students will demonstrate an ability of 70% mastery of the objective.

1.7 Measured Outcome

1.7.1 Student Learning Outcomes
1.7.2 Learning Activities

1.7.3 Core Objective (LINK to selection)

1.7.4 Measure of Success
Program Name: POFM.1327  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
POFM 1327, Medical Insurance

1.1 Division-Department
Business and Computer Science Division  Medical

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes  
Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
The student will be able to differentiate and discern the difference between Physician /provider and Hospital billing and claims filing.

1.4.2 Learning Activities
Distinguish, differentiate, discern, identify the difference between Physician/provider and Hospital billing and claims filing.

1.4.3 Core Objective (LINK to selection)

General Outcomes  
Links

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1.4.4 Measure of Success
60 percent of the evaluated students will demonstrate an ability of 70% mastery of the objective

1.5 Measured Outcome

1.5.1 Student Learning Outcomes
The student will be able to work/complete a patient claim from the patient registration (beginning) to the correct provider reimbursement (end) and identify the various types of insurance.

1.5.2 Learning Activities
Identify, interpret, describe, work and complete a patient registration form from the (beginning) to the correct provider reimbursement (end) and identify the various types of insurance.

1.5.3 Core Objective (LINK to selection)

General Outcomes

Links

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1.5.4 Measure of Success
60 percent of the evaluated students will demonstrate an ability of 70% mastery of the objective.
1 Course
POFT 1301, Business English

1.1 Division-Department
Business and Computer Science

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

<table>
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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Recognize and create professional business messages that demonstrate accurate formats and ideas expressed in clear, concise, and correct English.

1.4.2 Learning Activities
Using an internal memo format, students will edit and rewrite a poorly written message that suffers from wordiness, indirectness, and confusing instructions.

1.4.3 Core Objective (LINK to selection)

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in a target occupation

1.4.4 Measure of Success

80% of the evaluated students will demonstrate an ability of 70% mastery of the objective.
1 Course

POFT 2312, Business Correspondence and Communication

1.1 Division-Department
Business and Computer Science - Office Technology

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Create an impressive, error-free multimedia presentation that shows a firm grasp of basic visual design principles.

1.4.2 Learning Activities
Students will create a multimedia presentation that describes the duties of a current position or past job, volunteer activity, hobby, or internship.

Presentation Assignment

1.4.3 Core Objective (LINK to selection)

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Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation

1.4.4 Measure of Success
70% of the evaluated students will demonstrate an ability of 80% mastery of the subject.
Program Name: PSYC.2301
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
PSYC 2301, General Psychology

1.1 Division-Department
Social Sciences - Psychology

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Identify research methods and their characteristics used in the scientific study of psychology.

1.4.2 Learning Activities
Activities may include:
As determined by a standardized departmental measure, students will be able to distinguish between descriptive, correlational and experimental methods of research including a demonstration of the understandin of the steps involved in experimental design; the manipulation of independent and dependent variables to determine cause and effect; the process of random sampling to minimize pre-existing differences between groups, the analysis of results to confirm or deny a given hypothesis and the determination of positive and negative correlations.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
65% of all students will respond correctly to 70% or more questions on standardized department measure.

1.5 Measured Outcome

1.5.1 Student Learning Outcomes
Describe some of the prominent perspectives and approaches used in the study of psychology.

1.5.2 Learning Activities
Activities may include:
A Ripped from the Headlines scenario (examples include Sandy Hook and Virginia Tech) will require students to generate alternative explanations for determining the possible causation of behavior and mental processes. Relating knowledge gained in the classroom, students will apply the biopsychosocial approach, developing a written narrative establishing connections between biological, psychological and social-cultural influences as typified in the 7 major theoretical perspectives. Students will evaluate the local community in terms of possible factors contributing to the development of psychological disorders, resources available and methods for improving said resources.

1.5.3 Core Objective (LINK to selection)

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1.5.4 Measure of Success
65% of the students will demonstrate a superior or excellent rating on CT, CM, SR rubric.
Program Name: PSYC.2314  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
PSYC 2314, Lifespan Growth and Development

1.1 Division-Department
Social Sciences - Psychology

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Discuss the various causes or reasons for disturbances in the developmental process.

1.4.2 Learning Activities
The student will prepare a Life Review through an interview process with a person aged 65 years or older. The subjects life experiences will be documented in narrative form.
The student will relate/connect the findings to Eriksons Psychosocial Theory of development and present arguments supporting a positive or negative outcome of each crisis, noting those circumstances which determined the outcome.

1.4.3 Core Objective (LINK to selection)

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Social Responsibility (SR): To include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities

1.4.4 Measure of Success
65% of the students will have a superior or excellent rating on CT, CM, and SR rubric

1.5 Measured Outcome

1.5.1 Student Learning Outcomes
Identify various research methods and their characteristics used in the scientific field of psychology.

1.5.2 Learning Activities
As determined by a standardized departmental measure, students will be able to distinguish between descriptive, correlational and experimental methods of research including a demonstration of the understanding of the steps involved in experimental design; the manipulation of independent and dependent variables to determine cause and effect; the process of random sampling to minimize pre-existing differences between groups, the analysis of results to confirm or deny a given hypothesis and the determination of positive and negative correlations.

1.5.3 Core Objective (LINK to selection)

General Outcomes Links

General Education Outcomes
Empirical and Quantitative Skills (EQS): To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions

1.5.4 Measure of Success
65% of the students will respond correctly to 70% of an objective standardized instrument
Program Name: SOCI.1301  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
SOCI 1301, Introduction to Sociology

1.1 Division-Department
Social Sciences - Sociology

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Identify the various methodological approaches to the collection and analysis of data in sociology.

1.4.2 Learning Activities
Students will conduct research in the field by carrying out a set of behaviors, writing the results, analyzing the data and drawing conclusions based on a matrix covering certain points. A written report will be submitted for grade based on proper grammar usage.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
65% of students will demonstrate an exemplary or acceptable rating on a rubric for CT, CM, and EQ

1.5 Measured Outcome

1.5.1 Student Learning Outcomes
Describe key concepts in sociology.

1.5.2 Learning Activities
Students will be required to attend a civic function, school board meeting, community activity or a state or national meeting about needs. A written report using proper grammatical usage will be submitted as well as a list of sociological terms used during the meeting. Power points over various culture differences will be given to show real world differences.

1.5.3 Core Objective (LINK to selection)

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1.5.4 Measure of Success
65% of students will demonstrate an exemplary or acceptable rating on a rubric for CT, CM, SR, and EQ
Program Name: SOCI.1306
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
SOCI 1306, Social Problems

1.1 Division-Department
Social Sciences - Sociology

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Identify multidimensional aspects of social problems including the global, political, economic, and cultural dimensions of social problems.

1.4.2 Learning Activities
Students will be required to attend a civic function, school board meeting, community activity or a state or national meeting about needs. A written report using proper grammatical usage will be submitted as well as a list of sociological terms used during the meeting. Power points over various culture differences will be given to show real world differences. Historical analysis of a problem using proper research techniques will also be discussed in class.

1.4.3 Core Objective (LINK to selection)

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**1.4.4 Measure of Success**

65% of students will demonstrate an exemplary or acceptable rating on a rubric for CT, CM, EQ, and SR
1 Course
SOCI 2301, Marriage and the Family

1.1 Division-Department
Social Sciences - Sociology

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Critically evaluate such issues as sexuality, partner choice, resolving marital issues, having and raising children, and combining work with family.

1.4.2 Learning Activities
The internet will be used in an individual written assignment to research the areas of sexuality, partner choice, resolving marital issues, children and work using proper research techniques and grammatical usage.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success

65% of the students will demonstrate an exemplary or acceptable rating on a rubric for CT, CM, EQ and SR
## Program Name: SPAN.1411
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

### 1 Course
SPAN 1411, Beginning Spanish I

#### 1.1 Division-Department
Language Arts - Spanish

#### 1.2 Course Type
Academic TVCC Core Course (Transfer)

#### 1.3 Required General Education Outcomes (LINK to selection)

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#### 1.4 Measured Outcome

##### 1.4.1 Student Learning Outcomes
Students will identify and discuss traditions, customs and values of the Hispanic world, and compare and contrast them with characteristics of their own culture.

##### 1.4.2 Learning Activities
Student groups will be assigned to particular nations in the Spanish language world, and they will discuss traditions and differences in cultures on a listening portion an assessment.

##### 1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success

75% of enrolled students will (suggested learning activity) and demonstrate at least 70% mastery in (core objectives)
Program Name: SPAN.1412
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
SPAN 1412, Beginning Spanish II

1.1 Division-Department
Language Arts - Spanish

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Students will identify and discuss traditions, customs and values of the Hispanic world.

1.4.2 Learning Activities
The students will study various religious and secular customs and holidays celebrated in Spanish language countries and answer listening questions in part of an exam.

1.4.3 Core Objective (LINK to selection)

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communities

Personal Responsibility (PR): To include the ability to connect choices, actions, and consequences to ethical decision-making

1.4.4 Measure of Success

75% of enrolled students will (suggested learning activity) and demonstrate at least 70% mastery in (core objectives)
Program Name: SPAN.2311
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
SPAN 2311, Intermediate Spanish I

1.1 Division-Department
Language Arts - Spanish

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Students will produce oral Spanish comprehensible to native speakers using complex grammatical structures to narrate, describe, and elicit information.

1.4.2 Learning Activities
Student will answer questions in a oral portion of an exam.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

General Education General Education Outcomes

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Personal Responsibility (PR): To include the ability to connect choices, actions, and consequences to ethical decision-making

1.4.4 Measure of Success

75% of enrolled students will (suggested learning activity) and demonstrate at least 70% mastery in (core objectives)
1 Course
SPAN 2312, Intermediate Spanish II

1.1 Division-Department
Language Arts - Spanish

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Students will summarize authentic spoken discourse produced by Spanish speakers of diverse origins.

1.4.2 Learning Activities
Students will be assigned one country corresponding to each culture in the Encuentros cultural unit in the textbook. The student will verbally present information over the assigned information to the class. The student will respond to a listening exercise in a reflective dialogue that will lead the student to explore all necessary points regarding key ideas, and perspectives. Distance and face to face classes will employ a PowerPoint without written prompts.

1.4.3 Core Objective (LINK to selection)

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### 1.4.4 Measure of Success

75% of enrolled students will (suggested learning activity) and demonstrate at least 70% mastery in (core objectives)
1 Course
SPCH 1315, Public Speaking

1.1 Division-Department
Speech and Fine Arts - Speech

1.2 Course Type
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes Links

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</table>

1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Research, develop and deliver extemporaneous speeches with effective verbal and nonverbal techniques

1.4.2 Learning Activities
- Students will produce informative, persuasive and entertainment or special occasion speeches for oral presentation and will be evaluated by the instructor and group members for mechanics, structure, connection of content with main topic, logic and accuracy and depth of content.
- Students will construct a speech outline with an organizational pattern and components that are appropriate for the intended audience.

1.4.3 Core Objective (LINK to selection)

General Outcomes Links

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1.4.4 Measure of Success
80% of students will score at 70% of the available points for Critical Thinking.
80% of students will score at least 70% of the available points for Communication.
1.5 Measured Outcome

1.5.1 Student Learning Outcomes
Students will experience continuous improvement in their speech construction and delivery.

1.5.2 Learning Activities
Students will review each of their speeches by watching their speech videos. They will submit a comprehensive self-evaluation including a concrete plan of improvement.

1.5.3 Core Objective (LINK to selection)

General Outcomes Links

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1.5.4 Measure of Success
80% of students will score at 70% at Of the available point for Personal Responsibility.

1.6 Measured Outcome

1.6.1 Student Learning Outcomes
Develop proficiency in working with groups or in dyads in a variety of situations.

1.6.2 Learning Activities
- Groups select a topic and produce a specific purpose, central idea and formulate three main ideas. The group orally present their developed topic to the class. The presentation is evaluated by the class for its connection with the main topic, logic and accuracy.
- "Seek and Destroy Exercise"-Students present their persuasive propositions and preliminary outlines to a partner for critique. After they have critiqued each other's propositions, they switch partners and the process begins again. The goal is to find as many flaws as possible in the students' arguments so that they can do research to make their speeches stronger.

1.6.3 Core Objective (LINK to selection)

General Outcomes Links

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<td>Teamwork</td>
<td>Teamwork (TW): To include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal</td>
</tr>
</tbody>
</table>

1.6.4 Measure of Success
80% of the students will score at least 90% of the available points for Teamwork.
Program Name: SPCH.1321  
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course  
SPCH 1321, Business and Professional Communication

1.1 Division-Department  
Speech and Fine Arts - Speech

1.2 Course Type  
Academic TVCC Core Course (Transfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes  
Demonstrate written and oral competencies as it relates to employment (including job searches, interviews, interpersonal interaction, conflict management, leadership and performance appraisals.)

1.4.2 Learning Activities  
Instructors may choose one or more of these activities.  
- Students will complete a written or oral presentation based on an information seeking interview with someone in their desired career or of a different cultural background that will help them identify the connection between the course material and life experiences and will be evaluated by the instructor and group members for mechanics, structure, connection of content with main topic, logic and accuracy and depth of content.  
- Students will complete a persuasive oral presentation based on their research of their desired career field or other area of interest, identifying how their own skills qualify them for an entry level position in the field. The presentation will be evaluated by the instructor and group members for mechanics, structure, connection of content with main topic, logic and accuracy and depth of content.

1.4.3 Core Objective (LINK to selection)

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Communication Skills: expression of ideas through written, oral and visual communication
Personal Responsibility: To include the ability to connect choices, actions, and consequences to ethical decision-making

1.4.4 Measure of Success
80% of students will score at least 70% of the available points for Critical Thinking.
80% of students will score at least 70% of the available points for Communication.
80% of students will score at least 70% of the available points for Personal Responsibility.

1.5 Measured Outcome

1.5.1 Student Learning Outcomes
Apply essential dyadic and small group processes as they relate to the workplace.

1.5.2 Learning Activities
- Students will work in groups to interpreting verbal and nonverbal messages for accuracy, clarity and appropriateness and applying contexts such as culture, gender, status, etc.
- Students will complete an oral presentation with a group to identify and expound on communication theories improve interpersonal and small group processes in the work place. The presentation will be evaluated by team members, other students and the instructor on the basis of mechanics, structure, connection of content with the main topic, logic, accuracy and depth of content. An example of group activity may include a live or recorded PSA. Such an activity would incorporate CT, COMM, TW as well as PR.

1.5.3 Core Objective (LINK to selection)

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1.5.4 Measure of Success
70% of students will score 80% of the available points for Teamwork.
1 Course
TECA 1311, Educating Young Children

1.1 Division-Department
Business and Computer Science - Early Childhood

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Describe early childhood programs and issues in the field of early childhood education.

1.4.2 Learning Activities
Identify, Analyze, Describe, early childhood programs and curricular models that have influenced practice.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
60 percent of the evaluated students will demonstrate an ability of 70% mastery of the objective
### 1 Course

**TECA 1318, Wellness of the Young Child**

#### 1.1 Division-Department

Business and Computer Science

#### 1.2 Course Type

WECM Course (nonTransfer)

#### 1.3 Required General Education Outcomes (LINK to selection)

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#### 1.4 Measured Outcome

1.4.1 **Student Learning Outcomes**

To acquire an understanding of developmentally appropriate curriculum for young children in nutrition, health, safety, and related situations.

1.4.2 **Learning Activities**

Describe orally or in writing the principles of healthy behavior and guidance practices that influence nutrition, health, safety, and disease prevention for young children.

1.4.3 **Core Objective (LINK to selection)**

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1.4.4 **Measure of Success**
65 percent of the evaluated students will demonstrate an ability of 70% mastery of the objective
Program Name: TECA.1354
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
TECA 1354, Child Growth and Development

1.1 Division-Department
Business and Computer Science - Early Childhood

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
To acquire an understanding of the development of the child from conception through adolescence, with practical application of developmental principles.

1.4.2 Learning Activities
Demonstrate, Describe/identify the stages development of the child from conception through adolescence in the following domains:
  a. Physical
  b. Cognitive
  c. Social
  d. Emotional
With application of developmental principles and theories, observation, assessment and recognition of growth and development patterns.

1.4.3 Core Objective (LINK to selection)

General Outcomes

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1.4.4 Measure of Success
65 percent of the evaluated students will demonstrate an ability of 70% mastery of the objective
Program Name: WLDG.1323  
Program Cycle: #5  Sep 1, 2017  to  Aug 31, 2018

1 Course
WLDG 1323, Welding, Safety, Tool and Equipment

1.1 Division-Department
Career and Technology - Welding

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Students will be able to use a hand held angle grinder properly and safely.

1.4.2 Learning Activities
Students must demonstrate the ability to assemble and use an angle grinder to grind metal. This project will be evaluating the students ability to choose an appropriate grinding disc (size, maximum speed (RPM), shape and type) for the grinder being used and the metal being ground. It will also evaluate the students ability to use the grinder in a safe and proper manner based upon the developed Rubric.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
85% of the evaluated students will be able to complete the demonstration with 100% mastery in the proper and safe use of an angle grinder.

1.5 Measured Outcome

1.5.1 Student Learning Outcomes
Students will be able to use a horizontal band saw in a proper and safe manner.

1.5.2 Learning Activities
Students must demonstrate the ability to use a horizontal band saw properly and safely to cut pieces of metal. This project will evaluate for proper placement of metal in the band saw, proper introduction of the cutting blade into the metal for cutting, cutting the metal and appropriate actions for an emergency shut down of the equipment based upon the developed Rubric.

1.5.3 Core Objective (LINK to selection)

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1.5.4 Measure of Success
90% of the evaluated students will be able to complete the demonstration with 100% mastery in the proper and safe use of the horizontal band saw.
Program Name: WLDG.1421
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
WLDG 1421, Introduction to Welding Fundamentals

1.1 Division-Department
Career and Technology - Welding

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Students will be able to properly and safely set up and use oxyacetylene cutting equipment.

1.4.2 Learning Activities
Each student will assemble the equipment required to perform oxyacetylene cutting and adjust equipment to cut metal. This project will be evaluated for correct procedures in assembly of equipment and safe operation of the equipment based upon the developed Rubric. This project demonstrates a working knowledge of the equipment and its use.

1.4.3 Core Objective (LINK to selection)

General Outcomes

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1.4.4 Measure of Success
85% of the evaluated students will complete the assembly and use of the equipment with 100% mastery in assembly and use of the equipment.
Program Name: WLDG.1421 (TDCJ)
Program Cycle: #5  Sep 1, 2017   to  Aug 31, 2018

1 Course
WLDG 1421, Introduction to Welding Fundamentals

1.1 Division-Department
TDCJ -Welding

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Students will be able to select proper oxy-acetylene welding tip size for various metal thickness, adjust torch to neutral flame, and perform a corner weld without filler rod.

1.4.2 Learning Activities
Students use manufacturers charts to select proper tip for metal thickness, Attach welding blowpipe to torch body, set proper oxygen and acetylene pressures, use proper tip angle, control puddle to complete corner weld.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
80% of students will perform mastery of this skill.
Program Name: WLDG.1430 (TDCJ)
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
WLDG 1430, Introduction to Gas Metal Arc Welding

1.1 Division-Department
TDCJ - Welding

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Students will be able to perform a vertical butt weld, a vertical t-weld, and a vertical multipass weld using the GMAW welding process.

1.4.2 Learning Activities
After instructor demonstration, observing welding video presentation, and reading text assignment, students will perform the t-weld, butt weld and multipass weld in the vertical position.

1.4.3 Core Objective (LINK to selection)

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1.4.4 Measure of Success
80% of Students will perform mastery of this sk
Program Name: WLDG.1457  
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course  
WLDG 1457, Intermediate Shielded Metal Arc Welding

1.1 Division-Department  
TDCJ - Welding

1.2 Course Type  
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes  
Students will be able to perform a root pass, intermediate pass, and cover pass in a single v butt joint on 3/8 inch plate using a 6010 and a 7018 electrode that will pass a face and root bend test. This will be done in the flat position.

1.4.2 Learning Activities  
After reading the assigned text, observing a welding video presentation, and a demonstration from the instructor, students will prepare a 60 degree single V butt joint on 3/8 inch plate. Students will weld a root pass using E6010 electrode, and an intermediate and cover pass using a E 7018 electrode. This will be done in the flat position. This weld joint will be subjected to a face bend test and a root bend test.

1.4.3 Core Objective (LINK to selection)

<table>
<thead>
<tr>
<th>General Education</th>
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</tr>
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<tr>
<td>Communication Skills</td>
<td>Communication Skills (CM): To include effective development, interpretation and expression of ideas through written, oral and visual communication</td>
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<td>Career Entry Skills</td>
<td>Career Entry Skills (CE): Students will be able to demonstrate academic skills and workforce skills, knowledge, and abilities necessary to attain entry-level employment in a target occupation</td>
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</table>
1.4.4 Measure of Success

80% of Students will perform mastery of this skill.
Program Name: WLDG.1457 (TDCJ)
Program Cycle: #5 Sep 1, 2017 to Aug 31, 2018

1 Course
WLDG 1457, Intermediate Shielded Metal Arc Welding

1.1 Division-Department
Career and Technology - Welding

1.2 Course Type
WECM Course (nonTransfer)

1.3 Required General Education Outcomes (LINK to selection)

General Outcomes

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1.4 Measured Outcome

1.4.1 Student Learning Outcomes
Students will be able to perform a root pass, intermediate pass, and cover pass in a single V butt joint on 3/8 inch plate using a 6010 and a 7018 electrode that will pass a face and root bend test. This will be done in the flat position.

1.4.2 Learning Activities
After reading the assigned text, observing a welding video presentation, and a demonstration from the instructor, students will prepare a 60 degree single V butt joint on 3/8 inch plate. Students will weld a root pass using E6010 electrode, and an intermediate and cover pass using a E7018 electrode. This will be done in the flat position. This weld joint will be subjected to a face bend test and a root bend test.

1.4.3 Core Objective (LINK to selection)

General Outcomes

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1.4.4 Measure of Success

80% of Students will perform mastery of this skill.
End of report