



**CMU Tech Curriculum Committee
Meeting Minutes
February 11, 2025
Kayenta Hall 150**

Members Present: Wayne Smith, Carolyn Ferreira-Lillo, Jason Roberson, Stephanie Stelljes, and Olga Grisak

Members Absent: Karrie Stanfill

Ex-officio members present: Carrie Moore, Janel Davis, Maggie Bodyfelt, Kelly Reuss, Morgan Bridge, and Tracie Seurer

Recording Secretary: Lisa Bessette

Chair Smith called the meeting to order at 3:32 pm.

I. Announcements

- A. Chair Smith reminded the committee that CIM closed on December 20 for all proposals and asked that the committee not rollback any proposal to initiators, as they will no longer be able to resubmit them into workflow.

II. Ex-Officio Reports

- A. Associate Vice President of Academic Affairs for Assessment and Accreditation
 - i. AVPAA Bridge thanked the committee representatives for the work they've done. She reminded the committee that there are still 100-200 level courses requiring SLOs to be entered into CIM and encouraged them to prioritize these for the next curriculum cycle.
- B. Registrar's Office
 - i. No update.
- C. Financial Aid Associate Director Stewart
 - i. No update.
- D. Librarian Seurer
 - i. The library has approximately \$2,600 remaining in the budget, which must be spent by the end of March. Please inform Librarian Seurer if any materials are needed.
- E. Catalog Description Reviewer Varner
 - i. No update.
- F. Essential Learning Scott Andrews
 - i. No update.

III. Old Business

- A. None.

IV. Curriculum Proposals

- A. Curriculum proposals begin on page 3.

V. Information Items

- A. Now that CIM is closed, the Registrar's Office will do a mass clean-up of "old" proposals that were not submitted into workflow. Lisa Bessette will ensure any current proposals (those worked on this academic year) are saved as a Word document before shredding.

VI. New Business

- A. The UCC Chair, Sarah Lanci, brought to the attention of CMU Tech curriculum committee that there were some changes made to the CONC course SLOs that were not discussed with the Construction Management faculty on main campus. There are some issues that have arisen from these CONC changes that impact Construction Management courses. Chair Smith asked for feedback from the committee on the curriculum process to see if there were ideas to prevent these sorts of issues going forward. Discussion ensued. Chair Smith will report back to Chair Lanci and Kelly Reuss will coordinate with CMU Tech faculty to connect with Construction Management faculty to work on curriculum modifications that will work for both programs going forward.

Ferreira-Lillo motioned to adjourn and with no objections from the committee, Chair Smith adjourned the meeting at 4:13 pm.



CMU Tech CC Proposals February 11, 2025

Effective Term - Summer 2025

Programs

The following is a summary: Additional information can be found on the individual curriculum proposals.

| Program | Degree | Committee Action | Motion Second |
|---|------------|--------------------------------------|----------------------------|
| 1334: Land Surveying and Geomatics | AAS | Program Modification - Tabled | Roberson Stelljes |

CMU Tech CC Discussion: This proposal was tabled to further investigate the Essential Learning math vs. Trigonometry option.

Change Item Description

Department Justification

| | | | |
|--------------------------------------|------------|--|----------------------------|
| 1342: Transportation Services | AAS | Program Modification - Approved | Roberson Stelljes |
|--------------------------------------|------------|--|----------------------------|

CMU Tech CC Discussion: 1.) During the Summer of 2022 a TST staff member was tasked with creating a one year Diesel AAS to meet the needs of one of our industry members for an internship program. The TST staff member inadvertently rewrote the original two-year Diesel AAS into the one-year program previously mentioned. Traditional students not a part of the apprenticeship program required a program sheet for the two-year AAS a student expects for an associate degree. The original 2022-2023 two-year program sheet is reinstalled here with minor sequencing changes and course updates.

2.) Allows flexibility in scheduling and gives students a choice between the two transmission systems.
3.) Class deals with accessory electronics and is not fundamentally required information for the diesel industry.

4.) Fundamentally required information for the Diesel industry.

5.) Allows students to work specifically on Diesel engines for this AAS in Diesel instead of on Gasoline powered vehicles.

6.) Fundamentally required information for the Diesel industry.

7.) Allows flexibility in scheduling and gives students a choice on a career path within the industry.

8.) Class utilized for school credits while working within the industry and is not fundamentally required.

10.) TSTD 276 has specific fundamental information that is mandatory within the Diesel industry that TSTA 287 does not.

11.) Credit increase to ensure students receive the knowledge required to succeed within the Diesel industry.

12.) TSTD 280 is an in person lecture/lab class that has fundamentally required information that is necessary within the Diesel industry.

13.) Restricted electives allow students on differing suggested course sequence plans to complete degrees on time and allow for student choice.

14.) Align program SLOs with institutional SLOs. SLO content has not changed. Some SLOs were a better fit for a differing institutional SLO.

Change Item Description

List all proposed changes to the program

Department Justification

1. TST Diesel AAS traditional two year associates degree path added to suggested course sequencing.
2. TSTA 245 Manual Drive Trains and TSTA 247 Automatic Drive Train Service moved from required courses to restricted electives.
3. TSTA 267 Body Controls moved from required courses to restricted electives.
4. TSTG 120 Industrial Safety Practices added to Program-Specific Courses / Requirements.

5. TSTG 215 Engine Reconditioning replaced with TSTD 215 Diesel Engine Reconditioning in required courses.
6. TSTG 220 Workplace Skills added to Program-Specific Courses / Requirements.
7. TSTA 286 Hybrid and Alternative Fuel Vehicles added to restricted electives.
8. TSTG 240 Job Shop added to restricted electives.
9. TSTG 270 Practical Applications added to restricted electives.
10. TSTA 287 Engine Performance and Emissions will be replaced with a new diesel class called TSTD 276 Diesel After-Treatment and Emission Systems in required courses.
11. Program overall credit hours increased from 61 to 63 credit hours.
12. TSTG 150 replaced with TSTD 280 in required courses.
13. Four credits of restricted electives added to degree requirements.
14. Align program SLOs with institutional SLOs.

| 1347: Transportation Services: Diesel Mechanics | TCT | Program Modification – Approved | Roberson Stelljes |
|---|--|---------------------------------|---------------------|
| <p>CMU Tech CC Discussion: 1.) Restricted electives made it possible for students to complete a Diesel certificate without taking a Diesel-specific course.</p> <p>2.) Introduction information for TSTG 120 is covered in TSTC 100 & 101 and is not necessary for this Diesel certificate.</p> <p>3.) TSTD 280 is a hands on Diesel Hydraulics class that is necessary to this certificate (TSTG 150 is online)</p> <p>4.) TSTG 240 Job Shop is not necessary for this Diesel certificate and Restricted Electives were removed.</p> <p>5.) TSTG 270 Practical Applications is not necessary for this Diesel certificate and Restricted Electives were removed.</p> <p>6.) TSTG 220 Workplace Skills is not necessary for this Diesel certificate and Restricted Electives were removed.</p> <p>7.) TSTA 265 Engine Control Services replaced with TSTD 265 Diesel Engine Controls for this Diesel certificate.</p> <p>8.) TSTA 267 Body Controls is not necessary for this Diesel certificate and Restricted Electives were removed.</p> <p>9.) Weld 151 is not necessary for this Diesel certificate and Restricted Electives were removed.</p> <p>10.) Adding diesel coursework as mandated by industry strengthens the certificate and increases workforce readiness of graduates.</p> <p>11.) Increase from 34 to 35 to ensure students are prepared for the work place as dictated by the current Diesel industry.</p> <p>12.) TSTC 170 Chassis Fundamentals replaced by TSTD 275 Heavy Duty Suspension (Diesel class) to be specific to diesel industry standards.</p> <p>13.) Aligned program SLOs with Institutional SLOs to better fit SLO content.</p> | | | |
| Change Item Description | Department Justification | | |
| List all proposed changes to the program | <ol style="list-style-type: none"> 1. Removed restricted electives requirement 2. TSTG 120 removed from program requirements 3. TSTG 150 replaced with TSTD 280 in required courses 4. TSTG 240 removed from restricted electives 5. TSTG 270 removed from restricted electives 6. TSTG 220 removed from restricted electives 7. TSTA 265 removed from restricted electives | | |

8. TSTA 267 removed from restricted electives
9. WELD 151 removed from restricted electives
10. TSTD 177, 265, and 276 added to required courses
11. Credit hours increased from 34 to 35
12. TSTC 170 replaced with TSTD 275
13. Aligned program SLOs with Institutional SLOs.

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| 1363: Wildland Fire Management | AAS | Program Modification - Approved | Stelljes Roberson |
| CMU Tech CC Discussion: 1.) Due to EMTS being inactivated and being replaced with EMTS 122, it was necessary to update the restricted elective option to reflect the changes within the EMT Program. It is necessary to accurately match course listings within the Wildland Fire Program with appropriate EMT courses. 2.) Removed FSWM 148 from the Restrictive Electives as it is being inactivated. Students have many other courses to choose from for their 12 required Restricted Electives. | | | |
| Change Item Description | Department Justification | | |
| List all proposed changes to the program: | 1. Remove EMTS 102 from the Restrictive Electives list, as it is being inactivated, and replace it with EMTS 122. 2. Removed FSWM 148 from the Restrictive Electives as it is being inactivated. | | |
| 1388: Heating, Ventilation, and Air Conditioning Technician | AAS | Program Modification - Approved | Stelljes Roberson |
| CMU Tech CC Discussion: 1.) Remove HVAC 204 Direct Digital Controls. Many of the direct digital controls are manufacturer specific and the resources to learn these systems is not offered without factory training. Many of the basic fundamentals of direct digital controls are covered in HVAC-103 (basic electricity). 2.) Add HVAC 210 Fundamentals of Hydronics. This is very essential course for cold climate regions such as Colorado. 3.) Changes to industry standards and governing bodies updated to be reflected in description of program. 4.) Aligned SLOs to better fit institutional SLOs. | | | |
| Change Item Description | Department Justification | | |
| List all proposed changes to the program: | 1. Remove HVAC 204 Direct Digital Controls from list of required courses and the Suggested Course Plan. 2. Add HVAC 210 Fundamentals of Hydronics to list of required courses and the Suggested Course Plan. 3. Revised Program Overview. 4. Aligned SLOs. | | |
| 1146: Digital Filmmaking: Writing/Directing Elements | TCT | Program Inactivation - Approved | Ferreira-Lillo Roberson |
| CMU Tech CC Discussion: This program has been deactivated and will be replace with Writing/Directing Principles I which will better prepare students with the skills demanded by the industry. Students who have declared this program are currently being contacted to ensure any student who wishes to complete the program may do so before the program is deleted and/or are being provided with other program options that may better fit their professional goals. The program will not be deleted until students have been given this opportunity. | | | |

Change Item Description

List all proposed changes to the program:

Department Justification

This program will be deactivated.

1147: Digital Filmmaking: Basic Writing/Directing

TCT

**Program Inactivation -
Approved**

Ferreira-Lillo | Roberson

CMU Tech CC Discussion: This program has been deactivated and will be replace with Writing/Directing Principles II which will better prepare students with the skills demanded by the industry. Students who have declared this program are currently being contacted to ensure any student who wishes to complete the program may do so before the program is deleted and/or are being provided with other program options that may better fit their professional goals. The program will not be deleted until students have been given this opportunity.

Change Item Description

List all proposed changes to the program:

Department Justification

This program will be deactivated.

1148: Digital Filmmaking: Intermediate Writing/Directing

TCT

**Program Inactivation -
Approved**

Ferreira-Lillo | Roberson

CMU Tech CC Discussion: This program has been deactivated and will be replace with Writing/Directing Principles III which will better prepare students with the skills demanded by the industry. Students who have declared this program are currently being contacted to ensure any student who wishes to complete the program may do so before the program is deleted and/or are being provided with other program options that may better fit their professional goals. The program will not be deleted until students have been given this opportunity.

Change Item Description

List all proposed changes to the program:

Department Justification

This program will be deactivated.

Effective Term - Summer 2025

Courses

The following is a summary: Additional information can be found on the individual curriculum proposals.

| Title | Credits | Committee Action | Motion Second |
|--|----------|---|----------------------------|
| CADT 101: Introduction to Computers | 1 | Course Inactivation - Approved | Roberson Stelljes |

CMU Tech CC Discussion: Fall 2024, the transportation and welding departments, with the Director of Instruction, agree that the content is no longer useful to students in their respective programs. All

parties agree that CADT 101 is no longer relevant and have been waiving or substituting the course for multiple semesters. Program sheets have been updated to reflect the inactivation of this course.

Change Item Description

Old

New

Delete Proposal: No differences to report

**ELCL 131: Electrical
Distribution Theory I**

4

**Course Modification -
Approved**

Stelljes | Ferreira-Lillo

CMU Tech CC Discussion: 1.) Added contact hours, semesters offered, topical course outline, and student learning outcomes. Content was not included when the course was imported into the CIM system. 2.) Edits to the course description for clarity and to better reflect current course content.

Change Item Description

Old

New

Course description for the catalog:

Pole setting techniques, framing methods and specifications, climbing, sagging and splicing of conductors, energizing and de-energizing of lines, and installation of protective grounds.

Electrical theory, powerline equations, pole setting techniques, procedures for sagging and splicing of conductors, energized and de-energized line work, and installation of protective grounds.

**ELCL 132: Electrical
Distribution Theory II**

4

**Course Modification -
Approved**

Stelljes | Ferreira-Lillo

CMU Tech CC Discussion: 1.) Added contact hours, semesters offered, topical course outline, and student learning outcomes. Content was not included when the course was imported into the CIM system. 2.) Minor edits to the course description for clarity and to align with curriculum guidelines.

Change Item Description

Old

New

Course description for the catalog:

Installation and operation of protective equipment, transformer hookups, voltage regulation, hotstick maintenance, troubleshooting, and gloving from the pole. Four hours lecture, three hours laboratory per week.

Installation and operation of protective equipment, transformer hookups, voltage regulation, hotstick maintenance, troubleshooting, and outage restoration.

**ELCL 145: Hotline
Procedures**

1

**Course Modification -
Approved**

Stelljes | Ferreira-Lillo

CMU Tech CC Discussion: 1.) Added contact hours, semesters offered, topical course outline, and student learning outcomes. Content was not included when the course was imported into the CIM system. 2.) Aligned course description with curriculum guidelines. 3.) Changed title from "Hot Line" to "Hotline" for consistency with the catalog description the Mesa Hotline School (to which these courses are tied).

Change Item Description

Old

New

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|-------------------------------------|---|---|
| Course description for the catalog: | Two weeks of training by outside specialists covering current hotline maintenance and underground installation methods. Eight hours lecture, twenty-four hours laboratory per week. | Two weeks of training aided by outside specialists covering current hotline maintenance and underground installation methods. |
| Course name: | Hot Line Procedures | Hotline Procedures |

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|---|----------|---------------------------------------|----------------------------------|
| ELCL 145L: Hotline Procedures Laboratory | 2 | Course Modification - Approved | Stelljes Ferreira-Lillo |
|---|----------|---------------------------------------|----------------------------------|

CMU Tech CC Discussion: 1.) Added contact hours, semesters offered, topical course outline, and student learning outcomes. Content was not included when the course was imported into the CIM system. 2.) Added course description to align with curriculum guidelines for labs. 3.) Changed title from "Hot Line" to "Hotline" for consistency with the catalog description the Mesa Hotline School (to which these courses are tied).

| | | |
|-------------------------------------|--------------------------------------|---|
| Change Item Description | Old | New |
| Course description for the catalog: | Lab component required for ELCL 145. | Two weeks of training aided by outside specialists covering current hotline maintenance and underground installation methods. |
| Course name: | Hot Line Procedures Laboratory | Hotline Procedures Laboratory |

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|---|----------|---------------------------------------|----------------------------|
| FSWM 103: Expanded Dispatch Recorder | 1 | Course Modification - Approved | Roberson Stelljes |
|---|----------|---------------------------------------|----------------------------|

CMU Tech CC Discussion: 1.) Academic engagement minutes, student preparation minutes, terms offered, topical course outline and student learning outcomes were added (info was not transferred when CIM was implemented). 2.) Contact hours were corrected. 3.) Course description first word changed to begin with a noun phrase. 4.) Instructional type changed from Laboratory: Academic/Clinical to Lecture/Lab: Voc/Tech to better reflect how course is intended to be taught.

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|---------------------------------|-------------------------------|------------------------------|
| Change Item Description | Old | New |
| Type of Instructional Activity: | Laboratory: Academic/Clinical | Lecture/Lab: Vocational/Tech |

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|---|----------|---------------------------------------|----------------------------|
| FSWM 141: Introduction to Incident Information | 2 | Course Modification - Approved | Roberson Stelljes |
|---|----------|---------------------------------------|----------------------------|

CMU Tech CC Discussion: Academic engagement minutes, student preparation minutes, terms offered, topical course outline and student learning outcomes were added (info was not transferred when CIM was implemented).

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| Change Item Description | Old | New |
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|---|----------|---------------------------------------|----------------------------|
| FSWM 142: Portable Pumps and Water Use | 2 | Course Modification - Approved | Roberson Stelljes |
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CMU Tech CC Discussion: 1.) Academic engagement minutes, student preparation minutes, terms offered, topical course outline and student learning outcomes were added (info was not transferred when CIM was implemented). 2.) Instructional Activity changed from Lab Academic/Clinical to Mixed Instructional Method to better reflect how the course is currently taught.

| Change Item Description | Old | New |
|---------------------------------|-------------------------------|----------------------------|
| Type of Instructional Activity: | Laboratory: Academic/Clinical | Mixed Instructional Method |

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|--|----------|---------------------------------------|----------------------------|
| FSWM 144: Fire Operations in the Wildland/Urban Interface | 2 | Course Modification - Approved | Roberson Stelljes |
|--|----------|---------------------------------------|----------------------------|

CMU Tech CC Discussion: 1.) Academic engagement minutes, student preparation minutes, terms offered, topical course outline and student learning outcomes were added (info was not transferred when CIM was implemented). 2.) Changed instructional method from Lecture/lab vo tech to mixed instruction to better reflect how course is intended to be taught. 3.) Modified course description to better reflect current course content.

| Change Item Description | Old | New |
|-------------------------------------|---|--|
| Type of Instructional Activity: | Lecture/Lab: Vocational/Tech | Mixed Instructional Method |
| Course description for the catalog: | Emphasizes the tactical decisions made by structure and wildland firefighters when confronting fire that threatens life, property, and improvements in the wildland/urban interface. Instructional units include interface awareness, size up, initial strategy and incident action plan, structure triage, structure protection tactics, incident action plan assessment and update, follow up and public relations, and firefighter safety in the interface. This course consists of the curriculum and activities included in the National Wildfire Coordinating Group Firefighting Training class: S-215. | Introduction to tactical decisions made by structure and wildland firefighters when confronting fire in the wildland/urban interface. Instructional units include interface awareness, size up, strategies, structure triage and protection tactics. Course curricula involve incident action plan assessments, public relations, and firefighter safety. Course meets objectives identified in the National Wildfire Coordinating Group Training Class S-215. |

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|--------------------------------------|----------|---------------------------------------|----------------------------|
| FSWM 147: Ignition Operations | 2 | Course Modification - Approved | Roberson Stelljes |
|--------------------------------------|----------|---------------------------------------|----------------------------|

CMU Tech CC Discussion: 1.) Academic engagement minutes, student preparation minutes, terms offered, topical course outline and student learning outcomes were added (info was not transferred when CIM was implemented). 2.) Modified course description to meet 60 word limit. 3.) Changed instructional activity from Lecture/Lab: Vocational/Tech to Mixed Instruction to better reflect how course is currently taught.

| Change Item Description | Old | New |
|-------------------------|-----|-----|
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Course description for the catalog:

Training in the functional roles and responsibilities connected with firing operations. The course covers planning, ignition procedures and techniques, and equipment applicable to wildland and prescribed fire. This course also addresses the role of the ignition specialist or firing boss as the organization manages escalation from a non-complex to a complex situation. This course consists of the curriculum and activities included in the National Wildfire Coordinating Group Firefighting Training class: S-234.

Training in the functional roles and responsibilities connected with firing operations. The course covers planning, ignition procedures and techniques, and equipment applicable to wildland and prescribed fire operations. This course consists of the curriculum and activities included in the National Wildfire Coordinating Group Firefighting Training class: S-234.

Type of Instructional Activity:

Lecture/Lab: Vocational/Tech

Mixed Instructional Method

FSWM 148:
Status/Check-In
Recorder

1

Course Inactivation -
Approved

Stelljes | Ferreira-Lillo

CMU Tech CC Discussion: This course has never been offered and is not a required course. With industry changes, a focus on status check-in recorder is no longer needed and that content can be briefly addressed in other FSWM courses.

Change Item Description

Old

New

Delete Proposal: No differences to report

FSWM 152: Helicopter
Crew Member

2

Course Modification -
Approved

Roberson | Stelljes

CMU Tech CC Discussion: 1.) Academic engagement minutes, student preparation minutes, terms offered, topical course outline and student learning outcomes were added (info was not transferred when CIM was implemented). 2.) Course description modified to better reflect current course content and to align with curriculum guidelines. 3.) Instructional type changed to Mixed Instruction to better reflect how course is intended to be taught.

Change Item Description

Old

New

Course description for the catalog:

Proficiency in all areas of the tactical and logistical use of helicopters to achieve efficiency and standardization. Topics include: aviation safety, aircraft capabilities and limitations, aviation life support equipment, aviation mishap reporting, pre-flight checklist and briefing/debriefing, aviation transportation of hazardous materials, crash survival, helicopter operations, helicopter field exercise. This course consists of the curriculum and activities included in the National Wildfire Coordinating Group Firefighting Training program class S-271.

Proficiency in all areas of the use of helicopters associated with wildland fire operations. Aviation topics include: safety, life support equipment, mishap reporting, pre-flight checklist, aircraft capabilities and limitations, transportation of hazardous materials, and crash survival. This course consists of the curriculum and activities included in the National Wildfire Coordinating Group Firefighting Training program class S-271.

Type of Instructional Activity:

Laboratory: Academic/Clinical

Mixed Instructional Method

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|--|----------|--|--|
| FSWM 153: | 2 | Course Modification - | Roberson Stelljes |
| Intermediate Wildland | | Approved | |
| Fire Behavior | | | |
| CMU Tech CC Discussion: 1.) Academic engagement minutes, student preparation minutes, terms offered, topical course outline and student learning outcomes were added (info was not transferred when CIM was implemented). 2.) Modified course description to meet curriculum guidelines. 3.) Course changed to Mixed Instructional Method to better reflect how course is currently taught. | | | |
| Change Item Description | | Old | New |
| Course description for the catalog: | | Prepares the prospective supervisor to undertake safe and effective fire management operations. This course consists of the curriculum and activities included in the National Wildfire Coordinating Group Firefighting Training class: S-290. | Preparation for prospective supervisors to undertake safe and effective fire management operations. This course consists of the curriculum and activities included in the National Wildfire Coordinating Group Firefighting Training class: S-290. |
| Type of Instructional Activity: | | Lecture/Lab: Vocational/Tech | Mixed Instructional Method |
| FSWM 162: Advanced | 3 | Course Modification - | Roberson Stelljes |
| Firefighter Position Task | | Approved | |
| Book | | | |

CMU Tech CC Discussion: 1.) Academic engagement minutes, student preparation minutes, terms offered, topical course outline and student learning outcomes were added (info was not transferred when CIM was implemented). 2.) Instructional Activity changed Lecture/Lab: Vocational/Tech to correctly reflect how the course is currently taught.

| Change Item Description | Old | New |
|---------------------------------|-------------------------------|---------------------------------|
| Type of Instructional Activity: | Laboratory: Academic/Clinical | Lecture/Lab: Vocational/Tech |

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|---|----------|---------------------------------------|----------------------------|
| FSWM 200: Extended Attack Incident Commander | 1 | Course Modification - Approved | Roberson Stelljes |
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CMU Tech CC Discussion: 1.) Academic engagement minutes, student preparation minutes, terms offered, topical course outline and student learning outcomes were added (info was not transferred when CIM was implemented). 2.) Minor modifications to course description to align with curriculum guidelines.

| Change Item Description | Old | New |
|-------------------------------------|---|--|
| Course description for the catalog: | Covers the training needs of the incident commander type 3 (CT3). The six instructional units cover Information Gathering, Planning, Supporting Organization, Operations, Transitioning, and Demobilization/Administrative Requirement. This course consists of the curriculum and activities included in the National Wildfire Coordinating Group Firefighting Training program class S-300. | Training needs of the incident commander type 3 (CT3). The six instructional units cover information gathering, planning, supporting organization, operations, transitioning, and demobilization/administrative requirement. This course consists of the curriculum and activities included in the National Wildfire Coordinating Group Firefighting Training program class S-300. |

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|--------------------------------------|----------|---------------------------------------|----------------------------------|
| FSWM 204: Medical Unit Leader | 1 | Course Inactivation - Approved | Stelljes Ferreira-Lillo |
|--------------------------------------|----------|---------------------------------------|----------------------------------|

CMU Tech CC Discussion: Course has never been offered. Course is not a required course, not a prereq for other courses, and is currently not even listed as an elective within the course catalog.

| Change Item Description | Old | New |
|---|-----|-----|
| Delete Proposal: No differences to report | | |

| | | | |
|--|----------|---------------------------------------|----------------------------------|
| HVAC 113: Refrigerant Recovery Training | 1 | Course Modification - Approved | Ferreira-Lillo Roberson |
|--|----------|---------------------------------------|----------------------------------|

CMU Tech CC Discussion: 1.) Added EPA 608 Type I and II as course prereqs. Per the Environmental Protection Agency (EPA) to handle refrigerant; an individual must possess a section 608 refrigerant license prior to handling refrigerant. It is beneficial that HVAC 102 and a EPA Section 608, Type I and II license be a pre-requisite. 2.) Removed information about the EPA from course description as those details are not needed.

| Change Item Description | Old | New |
|-------------------------|-----|-----|
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Prerequisites:

HVAC 102 and an EPA 608 Type I and Type II License

Course description for the catalog:

Introduction to the laws regarding refrigerant recovery. The course includes hands-on use of recovery equipment. Environmental Protection Agency certification is included in this course and required nationally. Upon completion of the course, students will be prepared for successful completion of the certification exam. The student will be required to pay approximately \$40.00 to sit for the EPA exam.

Introduction to the laws regarding refrigerant recovery. The course includes hands-on use of recovery equipment.

HVAC 117: OSHA Ten- Hour Voluntary Compliance

1

Course Modification - Approved

Ferreira-Lillo | Roberson

CMU Tech CC Discussion: 1.) The catalog description indicates that the Instructor is an EPA proctor, this is not valid. Also it states that the student will earn a OSHA 10 card, this is not valid. The description was edited to more accurately reflect course content. 2.) Formatted topical course outline for consistency

Change Item Description

Course description for the catalog:

Old

Introduction to a 10-Hour OSHA certification course for general industry. Participants will review the current OSHA standards contained in 29 CFR 1910. Participants that complete the course will receive a certificate of completion from the United States Department of Labor, Occupational Safety and Health Administration. The course is taught by instructors certified by the Occupational Safety and Health Administration.

New

Introduction to a 10-Hour OSHA certification course for general industry. Participants will review the current OSHA standards contained in 29 CFR 1910. Participants will have the skills necessary to sit for the certificate of completion from the United States Department of Labor, Occupational Safety and Health Administration.

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|---|------------|---------------------------------------|----------------------------------|
| HVAC 210: Fundamentals of Hydronic Heating | 4 | Course Addition - Approved | Roberson Stelljes |
| CMU Tech CC Discussion: Hydronics is utilized in cold climates in the United States and as such students need to learn this content. This is a high priority topic in the western region of Colorado as over half the homes have some form of hydronic heat. Many cold climates in the United States have hydronic heat as the sole heating source. Students need this information in preparation for working in the HVAC industry. | | | |
| Change Item Description | Old | New | |
| New Proposal: No differences to report | | | |
| MAMT 251: CNC Machining I | 3 | Course Modification - Approved | Roberson Ferreira-Lillo |
| CMU Tech CC Discussion: 1) Academic engagement minutes and student preparation minutes, typical semester offered, SLOs, and topical course outline were added (info was not transferred when CIM was implemented). 2) MAMT 148 CNC application course is designed to teach the student how to Set-Up the machining center and operate the machine. This is a necessary requirement prior to taking MAMT 251 as it is designed to teach software and programming skills and there is not time allowed to teach each student how to set up machines. This is required to so the student has the best level of learning possible. | | | |
| Change Item Description | Old | New | |
| Prerequisites: | | MAMT 148 | |
| MAMT 255: CNC Machining II | 3 | Course Modification - Approved | Roberson Ferreira-Lillo |
| CMU Tech CC Discussion: 1) Academic engagement minutes and student preparation minutes, typical semester offered, SLOs, and topical course outline were added (info was not transferred when CIM was implemented). 2) MAMT 251 CNC Machining Level 1 course is designed to teach the student how to use the software and begin entry level CNC machining. This is a necessary requirement prior to taking MAMT 255 as it is designed to teach advanced programming skills with emphasis on programming efficiency. This is required to so the student has the best level of learning possible. | | | |
| Change Item Description | Old | New | |
| Prerequisites: | | MAMT 251 (may be taken concurrently) | |
| TECI 142: Internet of Things | 3 | Course Modification - Approved | Roberson Stelljes |
| CMU Tech CC Discussion: 1) The SLOs and Topical course outline were updated to match the course content, and terms offered updated to reflect when the course is actually offered. 2) The instructional method was changed from Lecture to Mixed Instructional Method to better reflect the course approach. | | | |
| Change Item Description | Old | New | |
| Type of Instructional Activity: | Lecture | Mixed Instructional Method | |
| TECI 185: Cisco Networking II | 3 | Course Modification - Approved | Roberson Stelljes |

CMU Tech CC Discussion: 1) Academic engagement minutes and student preparation minutes better reflect the course. 2) Term offered aligns with the new program sheet. 3) The instructional method was changed from lecture/lab: vocational/technical to mixed instructional to better reflect the course approach. 4) SLOs and topical course outline were added (info was not transferred when CIM was implemented).

| Change Item Description | Old | New |
|---------------------------------|-------------------------------|----------------------------|
| Type of Instructional Activity: | Laboratory: Academic/Clinical | Mixed Instructional Method |

| | | | |
|---|----------|---------------------------------------|----------------------------|
| TECI 201: Linux Configuration (OS) | 3 | Course Modification - Approved | Roberson Stelljes |
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CMU Tech CC Discussion: Updating terms offered for TECI 201. At present it is offered every term, and we do not have enough students or teachers to offer our courses every term. We are aligning the term offered for this course to match the new program sheet. The Information and Communication Technology Department initiated the development of Stackable Credentials. During this process, it became evident that a realignment of courses was necessary to better match certifications with the AAS degree. This is the last of the process making sure that the terms courses are offered match the Certificate and the A.A.S degree program sheets.

| Change Item Description | Old | New |
|--|--------------------|------------|
| Semester(s) in which the course will typically be offered: | Fall Spring Summer | Fall |

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| TECI 211: Windows Configuration (OS) | 3 | Course Modification - Approved | Roberson Stelljes |
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CMU Tech CC Discussion: 1.) Updating terms offered for TECI 211. At present it is offered every term, and we do not have enough students or teachers to offer our courses every term. We are aligning the term offered for this course to match the new program sheet. The Information and Communication Technology Department initiated the development of Stackable Credentials. During this process, it became evident that a realignment of courses was necessary to better match certifications with the AAS degree. This is the last of the process making sure that the terms courses are offered match the Certificate and the A.A.S degree program sheets. 2.) Minor formatting on course topical course outline for consistency.

| Change Item Description | Old | New |
|--|--------------------|------------|
| Semester(s) in which the course will typically be offered: | Fall Spring Summer | Spring |

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| TECI 230: Cisco Networking III | 3 | Course Modification - Approved | Roberson Stelljes |
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CMU Tech CC Discussion: 1) Academic engagement minutes and student preparation minutes changed to better reflect the course approach. 2) Term offered to align with the new program sheet. 3) The instructional method was changed from lecture/lab: vocational/technical to Mixed Instructional Method to better reflect the course approach. 4) SLOs, and topical course outline were added (info was not transferred when CIM was implemented).

| Change Item Description | Old | New |
|--|------------|----------------------------|
| Semester(s) in which the course will typically be offered: | | Spring |
| Type of Instructional Activity: | Lecture | Mixed Instructional Method |

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|--|------------------------------|---------------------------------------|----------------------------|
| TECI 242: Cloud Computing | 3 | Course Modification - Approved | Roberson Stelljes |
| CMU Tech CC Discussion: 1) Academic engagement minutes and student preparation minutes changed to better reflect the course. 2) Term offered to aligns with the new program sheet. 3) The instructional method was changed from lecture/lab: vocational/technical to Lecture to better reflect the course approach. 4) SLOs, and topical course outline were added (info was not transferred when CIM was implemented). | | | |
| Change Item Description | Old | New | |
| Semester(s) in which the course will typically be offered: | | Spring | |
| Type of Instructional Activity: | Lecture/Lab: Vocational/Tech | Lecture | |

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|---|------------------------------|---------------------------------------|----------------------------------|
| TSTD 215: Diesel Engine Reconditioning | 5 | Course Modification - Approved | Stelljes Ferreira-Lillo |
| CMU Tech CC Discussion: 1) This is a course reactivation for TSTD 215. After several years of not offering this course, it was evident that TST students enrolled in the AAS Diesel program were lacking essential skills within the Diesel sector. Students specializing in the Diesel industry occupations require these skill and it was deemed necessary to reactivate this course. 2) Academic engagement minutes and student preparation minutes, typical semester offered, SLOs, and topical course outline were added (info was not transferred when CIM was implemented). 3) Adding TSTC 100 and TSTC 101 as prerequisites for this course. Passing these two classes is the bare minimum knowledge a student needs to succeed in TSTD 215. 4) Change instructional activity to reflect how course is taught. 5) Update department designation to reflect current name. | | | |
| Change Item Description | Old | New | |
| Prerequisites: | | TSTC 100 and TSTC 101 | |
| Type of Instructional Activity: | Lecture/Lab: Vocational/Tech | Mixed Instructional Method | |
| Department: | WCCC (WCCC) | CMU Tech (UTEC) | |

| | | | |
|---|------------|-----------------------------------|----------------------------------|
| TSTD 276: Diesel Aftertreatment and Emission Systems | 3 | Course Addition - Approved | Roberson Ferreira-Lillo |
| CMU Tech CC Discussion: Proposal for this course is based on input from industry professionals and business owners in the community, as well as my experience in the industry. As technology increases and emission system regulation standards increase there is a growing demand for competent technicians to diagnose and repair these complex systems. In fact it has become impossible to diagnose modern diesel engine performance issues without a understanding of how the emission system correlates. These concerns have been voiced at advisory meetings with these locals businesses. To continue to stay up to date with the latest technology this course is a crucial step into advancing the diesel program. | | | |
| Change Item Description | Old | New | |
| New Proposal: No differences to report | | | |

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|---|----------|-----------------------------------|----------------------------------|
| TSTD 280: Hydraulic Systems Service and Repair | 3 | Course Addition - Approved | Roberson Ferreira-Lillo |
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CMU Tech CC Discussion: The need for this program has been requested by current and future partners in the industry. These requests have included Advisory meetings, meeting with businesses in the industry and feedback from our current Apprenticeship partners. The program would also allow additional opportunities for students in the diesel field including hydraulic system repair. This additional training makes students appealing to many heavy diesel repair shops that offer hydraulic repair services.

| Change Item Description | Old | New |
|--|------------|------------|
| New Proposal: No differences to report | | |